

Iranian Nuclear Science Bibliography: Open Literature References
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Reactor Science

Documents/Reports:

- | | |
|-----------------------|--|
| EIR-78 | Neutron Flux Measurements in Bent Air Ducts through Water |
| A. Etemad | 1965 |
| INIS-mf-3150 | Nuclear Fuel for Light Water Reactors |
| A. Etemad | 1976 |
| AEOI-NRC-127 | Design and Calculation for Construction of a Subcritical Reactor |
| M.R. Eskandaeri | 1982 |
| TTR Core Conversion | Study of Graphite and Beryllium Oxide Reflector Boxes for the LEU Fuel Core of Tehran Research Reactor |
| M. Zaker and H. Azimi | 1988 |
| TTR Core Conversion | Low Enriched Uranium Fuel Element for Tehran Research Reactor |
| M. Zaker | 1988 |
| TTR Core Conversion | Study of Irradiated Fuel Deposit Storage Racks and Fresh Fuel Storage Room of Tehran Research Reactor |
| M. Zaker and H. Azimi | 1989 |
| TTR Core Conversion | Study of Total Peaking Factor and Xenon and Samarium Poison of Tehran Research Reactor |
| M. Zaker and H. Azimi | 1989 |
| TTR Core Conversion | Kinetic Parameters and Reactivity Feedback Coefficients of the Tehran Research Reactor |
| M. Zaker and H. Azimi | 1989 |
| AEOI | Core Configuration Sequence from First Operating LEU Core to the Equilibrium Core of Research Reactor |
| M. Zaker | 1993 |
| IAEA-TECDOC-1110 | Islamic Republic of Iran: BUSHEHR NPP. Preservation and Maintenance. Annex 8 |
| A. Moshfeghian | 1999 |

IAEA-TECDOC-1110	Islamic Republic of Iran: BUSHEHR NPP. Preservation and Maintenance. Annex 8A
A. Moshfeghian	1999
IAEA-TECDOC-1110	Islamic Republic of Iran: BUSHEHR NPP. Preservation and Maintenance. Annex 8B
A. Moshfeghian	1999
IAEA-TECDOC-1110	Islamic Republic of Iran: BUSHEHR NPP. Preservation and Maintenance. Annex 8C
A. Moshfeghian	1999
Technical Report	Album of Neutron and Physical Characteristics of 1 st Loading of Boushehr Nuclear Plant
Atomic Energy Organization of Iran	2003

Thesis:

R. Miri, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, November 1993
Water Chemistry Technology and Control in Nuclear Power Plant VVER Type Reactor

M.D. Sedigh, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, November 1993
Control Room and Instrumentation and Control in Nuclear Power Plants

M. Taymouri, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, December 1993
Pressurized Water Reactor Containment in Russia

M. Behjati Ardakani, Thesis (M.S.), Amirkabir Technical University, Teheran, Iran, February 1994
Multi-Dimensional Core Calculation

M.T. Shabestari, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, December 1994
Turbines of VVER-1000

A.Z. Shahneh, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, March 1995
Steam Generator and Condensor Design of VVER-1000 Type of Nuclear Power Plant

A. Aghayan, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, August 1995
Maintenance of Nuclear Power Plant Equipment (VVER Type)

M. Rezvanifard, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, September 1995

Methods of Detection of Failed Fuel Assembly in VVER Type Reactors

M.A. Akhouni, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, December 1995

Operation and Control of Units with VVER-440 Reactor

F. Asgharizadeh, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, December 1995

The Application of Gamma-Spectroscopy to Nuclear Power Plant (NPP) and Environment

S.H. Fakhraee, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, December 1995

Instrumentation and Control Systems of VVER Reactors

P. Hatami, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, December 1995

Computer Code System for VVER Reactor In-Core Fuel Management

A. Montazeri, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, December 1995

Operation and Control of Units with VVER-440 (V213) Reactor

A. Movafeghi, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, December 1995

Instrumentation and Control in VVER Nuclear Power Plants

A. Sedgh Kerdar, Thesis (M.S.), Amrikabir Technical University, Department of Physics and Nuclear Science, Teheran, Iran, 1999

Investigating Mechanical Behavior and Radiation Resistance of Fuel Rods Clad in a Nuclear Power Plant

M. Roshan Zamir, Thesis (M.S.), Amrikabir Technical University, Department of Physics and Nuclear Science, Teheran, Iran, 2000

Structural Analysis and Modeling of Water Reactor Fuel Rod Behavior

F. Yousefpoor, Thesis (M.S.), Amrikabir Technical University, Department of Physics and Nuclear Science, Teheran, Iran, 2000

Power Distribution Control of Reactor Core in Pressurized Water Reactors by Optimizing Xenon Oscillation and Axial Offset of Power

A. Kazemi, Thesis (M.S.), Amrikabir Technical University, Teheran, Iran, 2000

Investigating Bushehr Reactor Core Parameters Using MCNP Code

N. Tajik, Thesis (M.S.), 2000, Guilan University
The Study of Nonlinear Dynamics, Effective Parameters on Dynamical Behavior and Stability of Nuclear Fission Reactor Systems

Aisa Sadeghi, Thesis (M.S.), 2003, Guilan University
The Study of Hybrid Nuclear Reactors and Concepts of Nuclear Waste Incineration

M. Rashedzadeh, Thesis (M.S.), 2005, Guilan University
The Analytical Study of Nuclear Reactor Dynamics, with Incorporating Mechanical and Nuclear Reactor Effects

V. Taherkhani, Thesis (M.S.), 2006, Guilan University
The Analytical and Numerical Study of Power in Operation and Safety of Accelerator Driven Subcritical Nuclear Reactors

B. Khanbabaei, Thesis (M.S.), 2008, Guilan University
The Analytical and Numerical Investigation of Heat Transfer Process using Fluid Dynamics Codes in Coolant System of Pressurized Water Reactors

L. Mollasoltani, Thesis (M.S.), 2008, Guilan University
The Analytical and Numerical Investigations of Neutronic Behavior of Accelerator Driven Subcritical Reactors

Books:

Nuclear Fuel, With Emphasis on its Utilization in Pressurized Water Reactor, September 1997

R. Khazaneh and M. Roshanzamir, Atomic Energy Organization of Iran

Conference Papers:

Proceedings of the International Conference on Peaceful Uses of Nuclear Energy, Geneva, Switzerland, 1964, A. Etemad

Penetration of Neutrons in Cylindrical Air Ducts in Diffusing Media

2nd International Conference on Nuclear Data for Reactors, 1970, A. Etemad
Fast-Neutron Inelastic Scattering in the Energy Range 2 to 4.5 MeV

Iran Conference on the Transfer of Nuclear Technology, Persepolis/Shiraz, April 10, 1977, M. Taherzadeh

Development of the Tehran Nuclear Research Center

American Nuclear Society 1977 Annual Meeting, New York, New York, 1977, R. Solanilla

Coarse-Mesh Finite Difference Methods Applied to a Large PWR Core

1987 Winter Meeting of the American Nuclear Society, Los Angeles, CA 1987, A. Pazirandeh
Neutronic Analysis of the Conversion of HEU to LEU Fuel for a 5-MW MTR Core

International Meeting on Reduced Enrichment for Research and Test Reactor (RERTR), Berlin, Germany, September 10-3, 1989, M. Abbas-Shirazi and J. Soltan-Mohammadi
Heat Transfer Study of LEU Fueled Core

International Meeting on Reactor Physics and Thermal Hydraulics, Brazil, February 26, 1991, M. Zaker
Comparison between Fork and Oval Type Control Fuel Elements

International Conference on Nuclear Power Plants Safety and Personnel Training, 1993, Obnisk, Russia, M.R. Eskandari and A. Ghasemizad
Safety Studies on Pool-Type Research Reactors

International Nathiagali Summer College on Physics and Contemporary Needs, 1994, Nathiagali, Pakistan, M.R. Eskandari and A. Ghasemizad
The Effect of Mean Energy Resonance Time on Fission Reactor Behavior

Annual Physics Society of Iran, Kordestan University, 1994, Sanadaj, Iran, A. Ghasemizad and M.R. Eskandari
The Boiling Water Reactor Transfer Function Studies by Non-Linear Dynamical Equations

International Conference on Nuclear Data for Science and Technology, Trieste, Italy, 1997, A. Pazirandeh
PWR and VVER Core Parameters Comparison Using WIMS.LIB and WIMKAL88.LIB

Iranian Annual Physics Conference, August 29-September 1, 1998, G.R. Raisali, F. Hasemi and R. Khodadadi
Shielding Design Calculation of a 50 MW Research Reactor

The First Conference of the Iranian Society of Civil Engineers, Tehran, Iran, October 20-1, 1999, F.R. Rofooei and M.R. Shabani-Khajal
Evaluation of the Performance of the Bushehr Nuclear Power Plant Base Isolation System under Earthquake Excitations

5th International Conference on Civil Engineering, Ferdowsi University, Mashhad, Iran, May 8-10, 2000, F.R. Rofooei and M.R. Shabani-Khajal
Parametric Study of the Base Isolation System to be used in Dar-Khovin Nuclear Power Plant

Proceedings of the IASTED International Conference on Intelligent Systems and Control, Honolulu, HI, 2000, M.N. Khajavi
Fuzzy Adaptive Robust Optimal Controller for Power Regulation of Nuclear Reactors

Power Systems Technology, Perth, Australia, December 4-7, 2000, M.N. Khajavi, M.B. Menhaj, and A.A. Suratgar

Fuzzy Adaptive Robust Optimal Controller to Increase Load Following Capability of Nuclear Reactors

Annual Physics of Iran, 2001, Training University of Sabzevar, Sabzevar, Iran, A. Ghasemizad and M. Tajik

The Study of Two and Three Dimensional Dynamics of Nuclear Fission Reactors and Effective Parameters on its Behavior

Meeting of Nuclear Physicists and Experts of Iran, February 20-1, 2002, Z. Nasr and P. Kaviani

Monte Carlo Simulation of the HWZPR Experiment

Meeting of Nuclear Physicists and Experts of Iran, February 20-1, 2002, G.R. Raisali and K. Keshtkar

Development of SHLDOPT Code for Calculation of Layer Thickness and Dose Distribution through a Nuclear Reactor Shield

International Conference on Nuclear Engineering, ICONE, 2002, April 14-18, 2002, Arlington, Virginia, N. Vosoughi, E.A. Hasan and Z. Naseri

Fuzzy Logic Controller Architecture for Water Reactor Level Control in Nuclear Power Plant Steam Generator using ANFIS Training Method

International Conference on Nuclear Option in Countries with Small and Medium Electricity Grid, Dubronik, June 16-20, 2002, *J. Jafari, **F. Maggini, **F. D'Auria, ***H. Kazeminejad and ****H. Davilu

Conceptual Design of a Natural Circulation Test Loop Assisted by a System Code

*AEOI, Nuclear Research Center, Teheran, Iran

** DIMNP, University of Pisa, Pisa, Italy

*** AEOI, Gamma Irradiation Center, Teheran, Iran

****DPNS, University of Amir Kabir, Teheran, Italy

Nuclear Energy for New Europe, Kranjska Gora, Slovenia, September 9-12, 2002, *J. Jafari, **F. D'Auria, ***H. Kazeminejad and ****H. Davilu

Analysis of Natural Circulation Performance of the Designed Thermohydraulic Test Loop

*AEOI, Nuclear Research Center, Teheran, Iran

**DIMNP, University of Pisa, Pisa, Italy

***AEOI, Gamma Irradiation Center, Teheran, Iran

****DPNS, University of Amir Kabir, Teheran, Italy

Proceedings of INC 02, International Nuclear Conference, Kuala Lumpur, Malaysia, October 15-8, 2002, F. Kazem

Uncertainty Analysis for Tehran Research Reactor Upgrading

International Conference on Global Environment and Advanced Nuclear Power Plants,
2003, Kyoto, Japan, A. Ghasemizad
The Dynamics Study of Intrinsically Safe Pellet Suspension Reactors

Proceedings of the 11th International Conference on Nuclear Engineering, Tokyo, Japan,
April 20-3, 2003, F. Kazem
Prediction of the Instability Occurrence during Natural Convection for Tehran Research
Reactor

Proceedings of the 11th International Conference on Nuclear Engineering, Tokyo, Japan,
April 20-3, 2003, S. Mohsen, S. Mahmoud, B.A. Nouri and A. Ali
ICONE11-36341 Ensemble Averaged Two-Phase Flow Numerical Simulation in Vertical
Ducts for the Void-Studying Behavior in BWRs

Annual Physics Conference of Iran, August 25-8, 2003, M. Azizi Shamami, H. Ghods, J.
Rahighi and J. Dabiri
Power Measurements in Tehran Research Reactor Using ¹⁶N Gamma Ray Activity

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-
30, 2004, J. Jafari and H. Kazeminejad
Development of a Computer Code for Thermohydraulic Analysis of a Heated Channel in
Transients

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-
30, 2004, A. Pazirandeh and B. Alaei
Neutronic Calculation of HWZPR Reactor with WIMS and CITATION Codes and
Compressing the Results with Experimental Data

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-
30, 2004, A.G. Gharib
The Importance of Heavy Water in Nuclear Technology

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-
30, 2004, A.S. Shirani and D. Golmoradi
Comparison in the Design and Thermodynamic Calculation of BNPP Steam Plant with
the Previous Design (PWR-1300) and the New Design (VVER-1000) using XEMAc
Computer Code

The 11th National Conference of Physicists and Nuclear Science Specialists, 2005,
Bushehr Nuclear Power Plant, Bushehr, Iran, A. Ghasemizad and M. Rashedzadeh
The Study of Nuclear Fission Reactors Dynamics with Considering of Mechanical and
Nuclear Effects

International Conference on Nuclear Technology and Sustainable Development, Tehran,
Iran, March 5-6, 2005, Seyed Hossein Hosseini
The Status and Progress of the Iranian New Research Reactor (IR40)

Nuclear Conference of Iran, 2007, Isfahan University, Isfahan, Iran, V. Taherkhani, A. Ghasemizad and G. Raeisali
The Analytical and Numerical Investigation of Power Balance in Operation and Safety of Accelerator Driven Subcritical Reactors

Nuclear Conference of Iran, 2007, Isfahan University, Isfahan, Iran, Z. Telikani and A. Ghasemizad
The Analytical and Numerical Investigation of Idea of Two-Blanket Fission-Fusion Hybrid Reactor

International Conference on Emerging Nuclear Energy Systems, Istanbul, Turkey, June 3-8, 2007, M.R. Nematollahi
Enhancement of Heat Transfer in a Typical Pressurized Water Reactor by Different Mixing Vanes on Spacer Grids

International Conference on Emerging Nuclear Energy Systems, Istanbul, Turkey, June 3-8, 2007, M.R. Nematollahi
A Simulation of a Steam Generator Tube Rupture in a VVER-1000 Plant

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November 17-21, 2007, M.H. Tilnoii
Nuclear Reactor Control Drive Rod Mechanism with Linear Drive DC Motor

15th International Conference on Nuclear Engineering (ICONE15), Tokyo, Japan, 2007, N. Mohseni, M. Brorooshaki and M.B. Gofrani
An Approach to Optimal Fuel Core Loading Pattern Design in VVER Nuclear Power Reactors Using Generic Algorithms

International Conference on Nuclear Energy for New Europe, 2008, Portoz, Portugal, A. Ghasemizad, L. Mollasoltani, M. Shahriari and L. Gholamzadeh
The Numerical Investigation of Neutronic Behavior of Accelerator Driven Subcritical Reactors

International Nuclear Conference, Greece, 2008, F. Faghihi
Fusion Reactor as Pu Breeder

International Green Energy Conference, Beijing, China, October 19-23, 2008, K. Ansari, H. Sayyaadi, M. Amidpour, A. Saffari and T. Sabzaligoll
On Thermodynamic Advantages of Hybrid PWR-Desalination Plants

International Nuclear Conference, June 29 – July 1, 2009, Kuala Lumpur, Malaysia, H. Arabnezhad, J. Jafari, M.B. Ghofrani and M. Taherzadeh
Simulation of Loss of Flow Accident in TTL-2 Thermal Hydraulic Test Loop using the RELAP5 System Code

International Nuclear Conference, June 29 – July 1, 2009, Kuala Lumpur, Malaysia, M. Shirazi and S. Alireza

The Effect of Different Mathematical Functional of the Thermal Conductivity on the Temperature Distribution at the Hot Fuel Pin in the Bushehr City Nuclear Power Plant in Iran

International Nuclear Conference, June 29 – July 1, 2009, Kuala Lumpur, Malaysia, M. Shirazi, S. Alireza, C. Sadoughi, C. Aghanajafi, N. Shariflou and G. Jahanfarnia
Design and Automatically Controller Set for Nuclear Reactor Control Rods

Journal Articles:

Journal of the British Nuclear Energy Society, 1972, Vol. 11, p377-82, A. Pazirandeh
Measurement of Fission Ratios in Zero Power Reactors

Kerntechnik, 1974, Vol. 16, p1 and 30, M. Sarram, H. Keshtkar and J. Moghimi
Gamma Streaming Problem due to Lining of a Research Reactor Pool with Stainless Steel

Iranian Journal of Science and Technology, 1978, Vol. 7, p147-9, F. Sefidvash
A Nuclear Power Reactor Concept for Iran

Desalination, 1978, Vol. 26, p127-40, M. Edalat, J. Entessari and H. Hamidi
The Bushehr 200,000 M³/D Desalination Plant

Review of Scientific Instruments, 1979, Vol. 50, p979-82, A. Youssefkhani
Automatic Measurement of Temperature in a Nuclear Reactor

Atomkernenergie Kerntechnik, 1980, Vol. 35, p191-5, F. Sefidvash
Preliminary Reactor Physics Calculations of a Fluidized Bed Nuclear Reactor Concept

Ho Tzu K'o Hsueh (Nuclear Science Journal), 1982, Vol. 19, p194-200, M. Eskandari
Calculation of the Critical Mass for a Pool Type Research Reactor Using Multireflectors

Iranian Atomic Journal, 1985, M.A. Salehi
The Space and Time Dependent of Reactivity Input in Reactor Dynamics with Feedback using Finite Element Method

Nuclear Science Journal, 1992, Vol. 29, p81-7, M.R. Eskandari
Intrinsic Reactor Safety with Temperature Sensitive Isotope Triggers

Kerntechnik, 1992, Vol. 57, p286-90, A. Paziranden
Study on Conversion of the Tehran Research Reactor to Low-Enrichment Fuel

Nuclear Technology, 1993, Vol. 103, p187-8, S.M.R. Nejat
Preliminary Neutronics Calculations for Conversion of the Tehran Research Reactor Core
from HEU to LEU Fuel

Applied Radiation and Isotopes, 1994, Vol. 45, p155-8, M.A.W. Mondal and M.
Doroudian
Burnup Calculations to Estimate the Effect of Chemical Shim "Boron" on the Production
and Depletion of Heavy Isotopes in a PWR

Nuclear Instruments and Methods in Physics Research, Section A, 1996, Vol. 377, p45-7,
K. Moghadam
Modification of the Neutron Beam Spectrum for Neutron Radiography at Tehran
Research Reactor (TRR)

Kerntechnik, 1997, Vol. 62, p249-53, A. Pazirandeh
Kinetic Study of the Tehran Research Reactor Core with Low Enriched Fuel

Scientific Bulletin of the Atomic Energy Organization of Iran, 1998, Vol. 15, p31-49,
M.K. Rassooly and M.R. Zamir
Ceramic Fuel Design and Fabrication Requirements

Nuclear Instruments and Methods in Physics Research, Section A, 1998, Vol. 413, p374-
8, H. Khalafi
Installation, Calibration and Application of Incore Miniature Neutron Detector in Tehran
Research Reactor (TRR)

Journal of Science of the University of Tehran, 1998, Vol. 3, p21-37, A. Pazirandeh
Research Reactor Fuel Element Leak Testing Using Delayed Neutron Counting

Annals of Nuclear Energy, 1999, Vol. 26, p1601-10, H. Khalafi
Calculational Tools to Conduct Experimental Optimization in Tehran Research Reactor

Nuclear Science Journal, 1999, Vol. 36, p42-50, M.Roshan Zamir
Design of the Tehran Research Reactor Spent Fuel Storage

Nuclear Science Reactor, 1999, Vol. 36, p428-33, F. Yousefpour
Improvement of the Axial Power Distribution Control Capabilities in VVER-1000
Reactors

Nuclear Engineering and Design, 2000, Vol. 200, p95-105, *G. Karimi and **M. Kawaji
Flooding in Vertical Counter-Current Annular Flow

*Shiraz University, Shiraz, Iran, work performed while at the Department of Engineering
and Applied Chemistry, Toronto, Canada

** Department of Engineering and Applied Chemistry, Toronto, Canada

Annals of Nuclear Energy, 2000, Vol. 27, p949-57, F. Yousefpour
Improvement of the Axial Power Distribution Control Capabilities in VVER-1000 Reactors

Annals of Nuclear Energy, 2001, Vol. 28, p365-74, M.R. Zamir
General Description of KIANA-1 Structure and Its Application for Fuel Rod Behavior

Amirkabir Journal of Engineering, 2001, Vol. 11, G. Heidarinejad
Providence and Development of Piping Benchmark Problems to Evaluate and Verify Simflex II Computer Code for Developing and Analyzing Nuclear Power Plant Piping System

Annals of Nuclear Energy, 2002, Vol. 29, p41-51, M. Sadighi, S. Setayeshi and A.A. Salehi
PWR Fuel Management Optimization Using Neural Networks

Annals of Nuclear Energy, 2002, Vol. 29, p751-60, M.N. Khajavi, M.B. Menhaj and A.A. Suratgar
A Neural Network Controller for Load Following Operation of Nuclear Reactors

IEEE Transactions on Nuclear Science, 2002, Vol. 49, p1574-78, M. Sadighi, S. Setayeshi and A.A. Salehi
Neutron Flux Flattening in PWRs using Neural Networks in Fuel Management

Annals of Nuclear Energy, 2002, Vol. 29, p1225-40, M. Boroushaki, M.B. Ghofrani and C. Lucas
Identification of a Nuclear Reactor Core (VVER) using Recurrent Neural Networks

Annals of Nuclear Energy, 2002, Vol. 29, p1591-96, M. Zaker
Effective Delayed Neutron Fraction and Prompt Neutron Lifetime of Tehran Research Reactor

Annals of Nuclear Energy, 2002, Vol. 29, p1989-2000, M.B. Ghofrani and S.A. Damghani
Determination of the Safety Importance of Systems of the Tehran Research Reactor using a PSA Method

Annals of Nuclear Energy, 2003, Vol. 30, p63-80, M. Boroushaki, M.B. Ghofrani, C. Lucas and M.J. Yazdanpanah
An Intelligent Nuclear Reactor Core Controller for Load Following Operations, using Recurrent Neural Networks and Fuzzy Systems

Annals of Nuclear Energy, 2003, Vol. 30, p63-80, M. Boroushaki, M.B. Ghofrani, C. Lucas and M.J. Yazdanpanah
An Intelligent Reactor Core Controller for Load Following Operations, Using Recurrent Neural Networks and Fuzzy Systems

Annals of Nuclear Energy, 2003, Vol. 30, p739-54, H. Arab-Alibek and S. Setayeshi
An Adaptive-Cost-Function Optimal Controller Design for a PWR Nuclear Reactor

Annals of Nuclear Energy, 2003, Vol. 30, p1591-6, M. Zaker
Effective Delayed Neutron Fraction and Prompt Neutron Lifetime of Tehran Research Reactor

Journal of Intelligent and Fuzzy Systems, 2003, Vol. 14, p85-93, M. Boroushaki, M.B. Ghofrani and C. Lucas
Optimal Fuel Core Loading Pattern Design in PWR Nuclear Power Reactors Using Genetic Algorithms and Fuzzy Nonlinear Programming

IEEE Transactions on Nuclear Science, 2003, Vol. 50, p159-74, M. Boroushaki, M.B. Ghofrani, C. Lucas and M.J. Yazdanpanah
Identification and Control of a Nuclear Reactor Core (VVER) Using Recurrent Neural Networks and Fuzzy Systems

IEEE Transactions on Nuclear Science, 2003, Vol. 50, p211-18, H. Arab-Alibeik and S. Setayeshi
Improved Temperature Control of a PWR Nuclear Reactor using an LQG/LTR based Controller

Nuclear Engineering and Design, 2003, Vol. 224, p79-104, J. Jafari, F. D'Auria, H. Kazeminejad and H. Davilu
Reliability Evaluation of a Natural Circulation System

Nuclear Engineering and Design, 2004, Vol. 227, p285-300, M. Boroushaki, M.B. Ghofrani, C. Lucas, M.J. Yazdanpanah and N. Sadafi
Axial Offset Control of PWR Nuclear Reactor Core Using Intelligent Techniques

Journal of Nuclear Science and Technology, 2004, Vol. 7, p709-14, Mohammad Reza Ansari
Effect of Pressure on Two-Phase Stratified Flow Modeling

Nuclear Engineering and Design, 2004, Vol. 229, p25-46, S.K. Mousavian, F. D'Airia and M.A. Salehi
Analysis of Natural Circulation Phenomena in VVER-1000

Iranian Journal of Physics Research, 2004, Vol. 4, p13-31, R.I. Najafabadi, R.K. Faegh and H. Afrideh
Measurement and Calculation of High Energy Neutron Flux in Aluminum, Graphite, Water and Paraffin Assembly

Journal of Nuclear Science and Technology (AEOI), 2005, Vol. 33, p15-20, A. Pazirandeh and H. Poor-Solaimani
Study on Feasibility of using ^{99}Tc as a Burnable Poison Instead of ^{10}B in Nuclear Fuel Assemblies

Annals of Nuclear Energy, 2005, Vol. 32, p588-605, H. Arab-Alibek and S. Setayeshi
Adaptive Control of a PWR Core Power Using Neural Networks

Quality and Reliability Engineering International, 2005, Vol. 22, p191-7, R. Noorossana and S.J.M. Vaghefi
Effect of Autocorrection on Performance of the MCUSUM Control Chart

IEEE Transactions on Nuclear Science, 2005, Vol. 52, p719-28, M. Boroushaki, M.R. Ghofrani and C. Lucas
Simulation of Nuclear Reactor Core Kinetics using Multilayer 3D Cellular Neural Networks

Journal of Faculty of Engineering, University of Tabriz, 2006, Vol. 32, p21-35, H. Aminfar
Heat Transfer Analysis in the Nuclear Reactor Fuel Rod

Nukleonika, 2006, Vol. 51, p161-167, M. Rahgoshay
Computation of Concentration Changes of Heavy Metals in the Fuel Assemblies with 1.6% Enrichment by ORIGEN Code for VVER-1000

Annals of Nuclear Energy, 2006, Vol. 33, p252-61, H. Kazeminejad
Reactivity Insertion Limits in a Typical Pool-Type Research Reactor Cooled by Natural Circulation

International Journal of Modern Physics E, 2006, Vol. 15, p925-38, K. Hadad and N. Ayobian
Fuel Burnup and Fuel Pool Shielding Analysis for Bushehr Nuclear Reactor VVER-1000

International Journal of Modern Physics C, 2006, Vol. 17, p805-15, F. Faghihi and M.R. Nematollahi
Nuclear Fuel Depletion Analysis Using MATLAB Software

International Journal of Modern Physics E, 2006, Vol. 15, p925-938, K. hadad and N. Ayobian
Fuel Burnup and Fuel Pool Shielding Analysis for Bushehr Nuclear Reactor VVER-1000

Corrosion Science, 2006, Vol. 48, p1404-12, M. Saremi, C. Dehghanian, and M. Mohammadi Sabet
The Effect of Molybdate Concentration and Hydrodynamic Effect on Mild Steel Corrosion Inhibition in Simulated Cooling Water

Nuclear Science and Engineering, 2007, Vol. 155, p119-30, M. Boroushaki, M.R. Ghofrani and C. Lucas
A New Approach to Spatio-Temporal Core Calculation of Nuclear Reactors using Neural Computing

Nukleonika, 2007, Vol. 52, p93-96, M. Rahgoshay and Y. Rahmani
A Study of the Effects of Changing Burn-Up and Gap Gaseous Compound on the Gap Convection Coefficient (in a hot fuel pin) in VVER-1000 Reactor

Progress in Nuclear Energy, 2007, Vol. 49, p68-78, F. Faghihi, A.H. Fadaie, and R. Sayareh
Reactivity Coefficients Simulation of the Iranian VVER-1000 Nuclear Reactor Using WIMS and CITATION Codes

Nuclear Engineering and Design, 2007, Vol. 237, p377-385, N. Vaziri, A. Hojabri, A. Erfani, M. Monsefi and B. Nilforooshan
Critical Heat Flux Prediction by Radial Basis Function and Multilayer Perception Neural Networks: A Comparison Study

Nuclear Science Engineering, 2007, Vol. 155, p119-30, M. Brooshaki and M.B. Gofrani
A New Approach to Spatio-Temporal Calculation of Nuclear Reactor Core Using Neural Computing

Nuclear Engineering and Design, 2007, Vol. 237, p668-76, H. Eliasi, H. Davilu and M.B. Menhaj
Adaptive Fuzzy Model Based Predictive Control of Nuclear Steam Generators

International Journal of Nuclear Knowledge Management, 2007, Vol. 2, p285-98, S.S. Sajjadi, M. Boroushaki, J. Jafari and M.J. Yazdanpanah
Identification of a VVER Horizontal Steam Generator using Recurrent Neural Networks

Annals of Nuclear Energy, 2007, Vol. 34, p406-16, K. Hadad and A. Piroozmand
Application of Cellular Neural Network (CNN) Method to the Nuclear Reactor Dynamics Equations

Annals of Nuclear Energy, 2007, Vol. 34, p514-20, S.A.H. Fegghi, M. Shahriari and H. Afarideh
Calculation of Neutron Importance Function in Fissionable Assemblies using Monte Carlo Method

Annals of Nuclear Energy, Article in Press, 2007, F. Faghihi, H. Havasi and M. Amim-Mozafari
Plutonium-239 Production Rate Study using a Typical Fusion Reactor

International Journal of Energy, 2008, Vol. 5, p78-96, *K. Hooman, **F. Hooman and ***S.R. Mohebpour

*School of Engineering, The University of Queensland, Brisbane, Australia

**Chemical Engineering Facility, Sharif University of Technology, Tehran, Iran

***Mechanical Engineering Department, Persian Gulf University, Bushehr, Iran

Entropy Generation for Forced Convection in a Porous Channel with Isoflux or Isothermal Walls

Annals of Nuclear Energy, Article in Press, 2008, S. Mohammad Hadi Hadavi
WWER-1000 Shutdown Probabilistic Risk Assessment: An Introductory Insight

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 44, p9-18, H. Aminfar, and M.H. Ghafari

Analytical and Numerical Heat Transfer Analysis of Eccentric Fuel Pellets in a Fuel Element of a Nuclear Reactor

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 44, p28-34, A. Pazirandeh and D. Seghati

Study of Reactivity Effect on the Dynamic Behavior of VVER-1000 Reactor Core

Annals of Nuclear Energy, 2008, Vol. 35, p269-76, N. Mohseni, M. Boroushaki, M.B. Ghofrani and M.H. Raji

Application of Minimum Plutonium Criteria at EOC to Optimize the Fuel Loading Pattern in VVER-1000 Reactors

Journal of Applied Sciences, 2008, Vol. 8, p780-87, B. Khanbabaei, A. Ghasemizad and H. Farajollahi

CFD-Calculation of Fluid Flow in VVER-1000 Reactor

Annals of Nuclear Energy, 2008, Vol. 35, p1177-84, K. Farhadi and S. Khakshournia
Feasibility Study for Tehran Research Reactor Power Upgrading

Reliability Engineering and System Safety, 2008, Vol. 93, p1377-1409, F. Faghihi
Level I Probability Safety Assessment of the Iranian Heavy Water Reactor using SAPHIER Software

Annals of Nuclear Energy, 2008, Vol. 35, p1370-2, R. Khoda-Bakhsh, S. Behnia and O. Jahanbakhsh

Stability Analysis in Nuclear Reactor Using Lyapunov Exponent

IEEE Transactions on Nuclear Science, 2008, Vol. 55, p1678-85, A. Fakhrazari and M. Boroushaki

Adaptive Critic-Based Neurofuzzy Controller for the Steam Generator Water Level

Progress in Nuclear Energy, 2008, Article in Press, K. Hadad, N. Ayobian and A. Piroozmand
Quantitative Accuracy Analysis of Burnup Calculations for BNPP Fuel Assemblies Using FFTBM Method

Progress in Nuclear Energy, 2008, Article in Press, H. Khalafi and M.S. Terman
Development of Neural Simulator for Research Reactor Dynamics

Progress in Nuclear Energy, 2008, Article in Press, A.H. Fadaei and S. Setayeshi
Control Rod Worth Calculation for VVER-1000 Nuclear Reactor Using WIMS and CITATION Codes

Annals of Nuclear Energy, 2008, Vol. 35, p2019-23, H. Khalafi and F. Rahmani
Improving the NAA Laboratory Pneumatic Transfer System for using Tehran Research Reactor

Annals of Nuclear Energy, 2008, Vol. 35, p2051-8, S.S. Khorramabadi, M. Boroushaki and C. Lucas
Emotional Learning Based Intelligent Controller for a PWR Nuclear Reactor Core during Load Following Operation

Progress in Nuclear Energy, 2009, Vol. 51, p644-648, G. Jahanfarnia and S. Tashakor
Mathematical Model of Impurities Hide Out and Return in Nuclear Power Plant Steam Generator

Progress in Nuclear Energy, 2009, Vol. 51, p788-798, E. Zarifi, G.R. Jahanfarnia, S.K. Mousavian and F. D'Auria
Semi 2D Modeling of the Horizontal Steam Generator PGV-1000 using the RELAP5 Code

Applied Energy, 2009, Vol. 86, p1301-1310, H. Sayyaadi and T. Sabzaligol
Various Approaches in Optimization of a Typical Pressurized Water Reactor Power Plant

Nuclear Engineering and Design, 2009, Article in press, F. Faghihi
Neutronic Core Design of a 1000 MWe Westinghouse Type Pressurized Water Reactor

Nuclear Engineering and Design, 2009, Article in press, F. Faghihi
Burnup Estimation of the Isfahan Miniature Reactor

Nuclear Engineering and Design, 2009, Article in press, F. Faghihi
A MATLAB-Linked Solver to Investigate Fuel Depletion in a PWR

Nuclear Safety

Documents/Reports:

NRC-77-44 H. Ghafourian	Determination of Uranium in Urine Samples 1977
NRC-78-53 H. Ghafourian	Investigation of Uranium in Urine Samples 1978
IAEA/R1 48 H. Ghafourian	Determination of U and Pu-239 in Human Urine 1978
Tech. Rept. No. 19 NRC H. Ghafourian	Investigation of Sr-90 and Cs-137 in Biological Samples 1982
Tech. Rept. No. 25 NRC H. Ghafourian	Determination of Tritium in Biological Sample 1983
Tech. Rept. No. 48 NRC H. Ghafourian	Extraction of Radionuclides from Contaminated Blood 1983
Tech. Rept. No. 49 NRC H. Ghafourian	Determination of Transuranium in Biological Sample 1984
VP-CNS, ST/8 H. Ghafourian	Standards of Sealed Radioactive Sources 1997
VP-CNS, ST/12 H. Ghafourian	Standards of Safety Transport of Radioactive Material 1998

Thesis:

M. Roshan Zamier, Thesis (M.S.), Amirkabir Technical University, Teheran, Iran, September 1993
Design of a Cask to Store Spent Fuel Rods of the Tehran Research Reactor

F. Langari, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, December 1993
Quality Assurance in Russian Nuclear Power Plants

M. Vaziri, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, August 1995
Safety Design Features of Water-Cooled Water-Moderated Energy Reactors (Russian Design VVERs)

A.F. Hashemi, Thesis (M.S.), All-Union Research Institute for Nuclear Power Plant, Moscow, December 1995
Soil and Water Sampling for Measurement of the Radionuclides in the Environment Affected the Accident at the Chernobyl Nuclear Power Station

N. Rastkhah, Thesis (M.S.), All-Union Research Institute for Nuclear Power Plant, Moscow, December 1995
Quality Assurance in Ionizing Radiation Application

M. Azhdari, Thesis (M.S.), 2005, Shiraz University
Primary Hazard Analysis for Fuel Fabrication Facility

A.R. Farajollahi, (PhD), An Investigation into the Applications of Polymer Gel Dosimetry in Radiotherapy

K. Adinehvand, (M.S.), Verification Response of MAGICA Gel Dosimeter in Beams Electron with MRI Technique

Conference Papers:

Proceedings of a Symposium on Principles and Standards of Reactor Safety, Julich, Germany, 1973, M. Sarram
The Current Design Philosophies for Design and Operation of Nuclear Power Plants

Iran Conference on the Transfer of Nuclear Technology, Persepolis/Shiraz, Iran, 1977, A.E. Placer
Transfer of Technology on Radiation Protection and Nuclear Safety

International Symposium on Radiation Physics, Ferrara, Italy, September 30, 1985, M. Sohrabi
Discovery of Some Phenomena in Electrochemical Etching of Polymeric Dosimeters

International Conference on Solid State Nuclear Track Detectors, Lahore, Pakistan, 1988, R.B. Akbari
Studies on the Physical Characteristics of the TLD-LiF Dosemeters

International Conference on Solid State Nuclear Track Detectors, Lahore, Pakistan, 1988, A. Khodai-Joopary
Chemical Etching of Polyvinylidene Fluoride Films

International Conference on Solid State Nuclear Track Detectors, Lahore, Pakistan, 1988, M. Sohrabi
Some Characteristics of the AEOI Passive Radon Diffusion Dosimeter

International Conference on Solid State Nuclear Track Detectors, Lahore, Pakistan, 1988,
M. Sohrabi
Indoor Radon Level Measurements in Some Regions of Iran

International Meeting on Radiation Processing, Noordwijkerhout, Netherlands, April 23-
28, 1989, G.R. Raisali, M. Sohrabpour and A. Hadjnia
A Computer Code for Dose Rate Mapping of Gamma Irradiators

International Meeting on Reduced Enrichment for Research and Test Reactors (RERTR),
Berlin, September 10-3, 1989, M. Abbass-Shirazi, A. Pazirandeh, and J. Soltan-
Mohammedi
Heat Transfer Study of LEU Fueled Core

International Conference on Solid State Dosimetry, Vienna, Austria, November 6-10,
1989, M. Sohrabi and M. Katouzi
Some Characteristics of the AEOI Neutron Personnel Dosimeter

Radiation Protection Infrastructure: Proceedings of an International Symposium, Munich,
Germany, 1990, M. Sohrabi
Radiation Protection Infrastructure in Iran

Proceedings of the ICNC '91. International Conference on Nuclear Criticality Safety,
Oxford, UK, 1991, H. Azimi
Criticality Calculations of Spent Fuel Storage Racks

International Conference on Nuclear Tracks in Solids, Beijing, China, 1992, R.B. Akbari
The Physical Properties of the LiF-Teflon (TL) Dosimeters

Asia and Pacific Basin Regional Conference on Radiation Protection, Beijing, China,
1993, M. Sohrabi
Advances on Radiation Protection Dosimetry Research, Development and Services at
AEOI

Iranian Annual Physics Conference, Razi University, Kermanshah, Iran, 1993, M.
Eskandari and S.Z. Kalanitari
Safety Studies on Pool-Type Research Reactors

3rd International Conference on Nuclear Power Plants Safety, Obninsk, Russia, 1993,
M.R. Eskandari, A. Ghasemi and S.Z. Kalantari
Evaluation of Depletion Function of any Index $k_{\infty} \geq 3$ for Isotope Transmutation

ICARID 94: International Conference on Applications of Radioisotopes and Radiation in
Industrial Development, Bombay, India, 1994, M. Sohrabpour
Radiation Processing Activities in the Islamic Republic of Iran: Ten Year Review

17th International Conference on Nuclear Tracks in Solids, Dubna, Russia, 1994, M. Sohrabi
A New Multi-Detector ECE Processing Chamber System for Large-Scale Radon and Neutron Dosimetry

17th International Conference on Nuclear Tracks in Solids, Dubna, Russia, 1994, M. Sohrabi
Determination of ²²⁶Ra in Food Samples by a New Method Using Polycarbonate Detectors

17th International Conference on Nuclear Tracks in Solids, Dubna, Russia, 1994, M. Sohrabi
Introduction of a Novel Track Counting Method by Thermal-Neutron-Induced Activity Measurements of “DYECETs”

Proceedings of the 4th International Conference on High Levels of Background Radiation, Beijing, China, 1996, M. Sohrabi, H. Bolorchi and S. Beitollahi
Natural Radioactivity of Soil Sample in the High Level Radiation Areas of Iran

International Conference on Low Doses of Ionizing Radiation: Biological Effects and Regulatory Control, Seville, Spain, 1997
“Low Dose” and/or “High Dose” in Radiation Protection: A Need for Setting Criteria for Dose Classification

IGORR 6, Meeting of the International Group on Research Reactors, Taejon, Korea, April 29 – May 1, 1998, G.R. Ralsall, F. Hashemi and R. Khodadadi
Shielding Design Calculation of a 50 MW Research Reactor

Annual Iranian Physics Conference, Kerman, August 29 – September 1, 1998, G. Raisali, F. Hashemi, and R. Khodadadi
Shielding Design Calculation of a 50MW Research Reactor

Annual Iranian Physics Conference, Kerman, August 29 – September 1, 1998, N. Banaei, N. Feirpoor, and K.H. Mikhchi
Preparation of LiF for Personnel Dosimeter

Proceedings of the 6th Meeting of the International Group on Research Reactors, 1998, Taejon, South Korea, G. Raisali, F. Hashemi, and R. Khodadadi
Shielding Design Calculation of a 50MW Research Reactor

The 4th International Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing, Hong Kong, 2000, G. Raisali
Uncertainty Analysis of Critical Heat Flux Safety Margin of Tehran Research Reactor Using Monte Carlo Method

Annual Iranian Physics Conference, Shahroud, Iran, 2000, R. Khodadadi and G. Raisali
Estimate of Total Effective Dose to Members of the Public Due to Airborne Materials
Release in the Event of a Severe Accident at the Tehran Research Reactor

Applications of Physics and Nuclear Science in Medicine and Industry, February 2000,
AmirKabir University, K. Hadad
Current progresses and Issues in Monte Carlo Methods of radiation Dose Calculations

ICENS Nuclear Reactor Workshop, 2001, M. Zaker
Operation of Tehran Research Reactor with LEU Fuels

Annual Iranian Physics Conference, Sabzevar, Iran, 2001, A. Heydari, G. Raisali, and M.
Shahriari
Design of a Shipping Cask of VVER-1000 Spent Fuel Assemblies

International Nuclear Conference 2002: Global Trends and Perspectives, Kuala Lumpur,
Malaysia, October 15-8, 2002, M. Sharifzadeh, M. Sohrabpour, R. Gorjifard, and C.
Khamoushi
Environmental Radiation Monitoring around Nuclear Power Plant Using
Thermoluminescence Dosimetry

International Nuclear Conference 2002: Global Trends and Perspectives, Kuala Lumpur,
Malaysia, October 15-8, 2002, K. Farhadi
Uncertainty Analysis for Tehran Research Reactor Upgrading

Annual Iranian Nuclear Conference, Shahreza Islamic Azad University, Iran, 2002, A.H.
Shad, G. Raisali, H. Davilu, and R. Khodadadi
Calculation of Total Effective Dose to Members of the Public Due to Airborne
Radioactive Material Release in the Event of Loss of Coolant Accident (LOCA) at
Bushehr Nuclear Power Plant

Annual Iranian Physics Conference, Zanjan University, Iran, 2002, A.H. Shad, G. Raisali,
H. Davilu, R. Khodadadi, and M. Sharif
Calculation of Irradiation to Members of the Public Due to Airborne Radioactive
Material Release in the Severe Accident at Bushehr Nuclear Power Plant

International Conference Nuclear Energy for New Europe 2003, Portoroz, Slovenia,
September 8-11, 2003, *S.K. Mousavian, **F.D'Auria, **G.M. Galassi, **A. Petruzzi,
*M.A. Salehi
*Department of Mechanical Engineering, Sharif University, Tehran, Iran
**DIMNP, University of Pisa, Pisa, Italy
Uncertainty Analysis of LB-LOCA in VVER-1000 Geometry

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, M.R. Nematollah

Comparison of Interaction Intensity of Molten Metals with Water in Partially Confined and Unconfined States

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, J. Jafari and S. Khakshournia

Loss of Flow Accident Analysis of Primary Cooling System of Power Upgraded Tehran Research Reactor

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, A. Rahimi, N. Mansourshaiflu, M.R. Alziadeh

Comparison of Radioactive Doses after the Last Protection Layer Inside the Reactor Structure for Russian VVER-1000 and German PWR-1300 Reactors

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, A.S. Shirani, A. Sedghkerdar, and K. Keshtkar

Erection and Installation of Thermal and Biological Shield in BNPP-1

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, K.K. Moghadam and A. Shahidi

Feasibility Study of the Biological Shielding of the Tehran Research Reactor, at Power Upgrading up to 10 MW

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, A.S. Shirani, A. Janipour, M. Bohrani, M. Garmsari, K. Keshtkar and A.S. Kerdar

Specification of the Fresh Fuel Transport Containers; Method Transportation and Storage of Fuel in the Bushehr Nuclear Power Plant

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, G.R. Raisli and K. Keshtkar

Development of a Computer Code for Optimization of Nuclear Reactor Shielding Using Non-Linear Programming

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, F. Ziaie, A. Noori, F. Anvari, M. Ghaffari, and V. Ahmadian

Investigation of High Dose Irradiation Effects on Polystyrene Calorimeter Response

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, M.H. Hosseini, M.R. Nematollahi, and K. Sepanloo

Probabilistic Safety Assessment of Tehran Research Reactor Using Systems Analysis Programs for Hands-On Integrated Reliability Evaluations

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, Z. Kheshtpaz and R. Zarghami
Simulation of Small Break LOCA Accident in SPES Facility with RELAP5/MOD3.2 System Code

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, M. Gholampoor and *K.N. Proskouriakow
*Moscow Power Engineering Institute, Moscow
Pressure Fluctuations Influence on Thermal-Hydraulics Parameters and Reactivity of VVER-1000

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, H. Saidi
Coating Selection for Contaminate Gaseous System in Isfahan Uranium Conversion Facility Plant

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, S. Mohammadian, E. Khajehejan, and B. Norbakhsh
Measurement of Alpha and Beta Activity of Soil and Water Samples around UCF Site up to 80 km

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, B. Nourbaksh, E. Khajeenheian, and S. Mohammadian
Measurement of Natural Background Radiation around UCF Site

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, K. Hadad
Nuclear Plant Accident Analysis using a Computer Based Full Scope Primary Loop NSSS Simulation

Proceedings of DOSGEL 2004, Ghent, Belgium, September 13-16, 2004, M. Zahmatkesh, R. Kousari, S. Akhlaghpour and S.A. Bagheri
MRI Gel Dosimetry with Methacrylic Acid, Ascorbic Acid, Hydroquinone and Copper in Agarose (MAGICA) Gel

5th Conference on Nuclear and Particle Physics, Cairo, Egypt, November 19-23, 2005, A.A. Rohani and A. Shirani
Determination of Gamma Ray Dose around Esfahan Heavy Water Zero Power Reactor (HWZPR)

Nuclear Conference in Iran, Mashad, Iran, February 2006, G.R. Raisali, M.M. Firuzabadi, N. Shayanshakib and A. Haddadi
Investigation of Cherenkov Counter Response for Various Height in Stank of Tehran Research Reactor using the MCNP4C and EGS4 Systems of Computer Codes

1st Human, Life and Radiation Conference, Rafsanjan University of Medical Sciences, October 29-31, 2006, E. Torshabi, R. Faghihi, K. Hadad, S. Mehdizadeh, F. Faghihi and S.M.J. Mortazavi

Design and Implementation of a Code to Produce MCNP4C Geometry Input File from Tomography Images using MATLAB Software

Australian Institute of Physics 17th National Congress, 2006, A.R. Vejdani Noghreyyana, R. Koochi-Fayegh and H.M. Hakimabad

Gamma Shielding Design Studies for Am-Be and Californium Neutron Sources

Second International Conference World of Construction Project Management, 2007, A.

Rashidi, H. Rajaie and A. Hazrati

Optimized Allocation of Equipment for Earthwork Projects According to Cost and Time Criteria

Universitas Pelita Harapan, Indonesia, September 26-27, 2007, A. Hemmati, A. Rashidi and S. Hemmati

Applications of IT in Different Stages of Infrastructure Projects in Iran

Nuclear Science Symposium, Honolulu, HI, October 26 – November 3, 2007, M.R.

Ghadiri, P. Ghafraei, S. Sarkar and H. Zaidi

The Influence of Energy Indexing Algorithm and Electron Substeps on MCNP4C Electron Transport: Application in Monte Carlo Simulation of s-Ray Spectra in Diagnostic Radiology and Mammography

Nuclear Science Symposium, Honolulu, HI, October 26 – November 3, 2007, P.

Ghafraei, S. Sarkar, H. Ghadiri and H. Zaidi

Impact of X-Ray Tube Voltage, Field Size and Object Thickness on Scattered Radiation Distribution in Diagnostic Radiology: A Monte Carlo Investigation

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November 17-21, 2007, A.R. Vejdani

Gamma Shielding Studies for Am-Be and Californium Neutron Sources

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November 17-21, 2007, A.R. Vejdani

Evaluation of the Nonlinear Response Function of a NaI Scintillation Detector for PGNA A Applications

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November 17-21, 2007, H. Panjeh

Improving the Performance of ²⁴¹Am-Be for PGNA A Applications using a Proper Shielding for Neutron Source and the NaI Scintillation Detector

ICENES, 2007, A. Aminian, M.R. Nematollahi, K. Haddad and S. Mehdizadeh
Determination of Shielding Parameters for Different Types of Concretes by Monte Carlo
Methods

International Nuclear Conference, June 29 – July 1, 2009, Kuala Lumpur, Malaysia, A.
Shahnavaz, T. Bayat, A. Attarzadeh, D. Gheysary, F. Bouzarjomehri and N. Abdoly
Investigation of ^{60}Co Gamma-rays Attenuation Properties in Baryte Concrete

International Nuclear Conference, June 29 – July 1, 2009, Kuala Lumpur, Malaysia, H.R.
Pakoyan, F. Asgharizadeh, M. Ghannadi Maragheh, M. Khayatizadeh Mahani and B.
Salami
Radiochemical Determination of Strontium-90 in Soil Sample from the Central Area of
Iran, by Cerenkov Counting

Journal Articles:

Nuclear Science and Engineering, 1971, Vol. 46, p1-11, A. Razani
A Three-Dimensional Stochastic Gamma-Ray Transport Method for Shielding
Calculations

Atomkernenergie, 1973, Vol. 22, p67-8, M.R. Hamadian
Gamma Dosimetry in the Tehran University Research Reactor Core

Quarterly Bulletin of the Faculty of Science, Tehran University, 1973, Vol. 5, p89-91, M.
R. Hamadian
Gamma Dosimetry in the Tehran University Research Reactor Core

Kerntechnik, 1974, Vol. 16, p198-200, Y.M. Nobar, D. Moghimi and Z. Berzezinski
A New Solid-State Safety Amplifier for Reactor Control

Nuclear Engineering and Design, 1978, Vol. 50, p323-5, M. Shahinpoor
Estimates on the Seismic Amplification Factors of Reactor Components

Nuclear Instruments and Methods, 1978, Vol. 157, p601-6, D. Azimi-Garakani
Calculation of the Radioactive Releases from the Iran-1 and Iran-2 Nuclear Power Plants

Nuclear Instruments and Methods, 1979, Vol. 165, p135-8, M. Sohrabi
A New Dual Response Albedo Neutron Personnel Dosimeter

Applied Physics, 1981, Vol. 25, p337-45, A. Aframian
Gamma-Ray (and Electron) Induced Annealing of Nuclear Tracks in Polymeric Detectors

Nuclear Engineering and Design, 1982, Vol. 72, p309-20, A.H. Yousafzal
Deterministic and Stochastic Earthquake Response Analysis of the Containment Shell of
a Nuclear Power Plant

Radiation Effects, 1983, Vol. 71, p125-36, A. Aframian
Annealing Parameters and Rate Controlling Factors Affecting Particle Tracks in Dielectrics

Nuclear Tracks, 1983, Vol. 7, p121-8, D. Azimi-Garakani and M. Bagheri-Darbandi
 ^{235}U : ^{238}U Fission-Ratio Measurements in a Fast-Neutron Field

Nucleus, 1983, Vol. 20, p65-73, M. Sohrabi
Advances in Solid State Nuclear Track Personnel Neutron Dosimeters

Nuclear Science Journal, 1983, Vol. 20, p78-81, H. Ghafourian
Determination of ^{90}Sr and ^{137}Cs in Urine Samples

International Journal of Environmental Studies, 1983, Vol. 21, p309-16, H. Ghafourian
Determination of Heavy Elements in Blood Samples

Radiation Protection Dosimetry, 1985, Vol. 12, p55-9, M. Sohrabi
A New Multi-Chamber Electrochemical Etching System Approach for Rapid Characteristic Response Studies in Polymeric Dosimeters

Nuclear Instruments and Methods in Physics Research, Section A, 1985, Vol. A238, p517-23, M. Sohrabi
Discovery of an 'Internal Heating Effect' During Electrochemical Etching of Polymeric Dosimeters

Scientific Bulletin of the Atomic Energy Organization of Iran, 1988, Vol. 8, p29-44, M. Khoshnoodi
The Calibration of Neutron Detectors Equipped with Spherical Moderators

International Journal of Radiation Applications and Instrumentation: Part C. Radiation Physics and Chemistry, 1988, Vol. 31, p435-40, *M. Sohrabpour, **P.H.G. Sharpe and **J.H. Barrett

*Gamma Irradiation Center, Atomic Energy Organization of Iran, Tehran, Iran

**National Physical Laboratory, Teddington Middlesex, UK

Dose and Temperature Response of "Opti-Chromic" Dosimeters

Radiation Protection Dosimetry, 1990, Vol. 34, p5-8, M. Sohrabi
A New Development of Dye ECE Tracks for Radiation Dosimetry

Nuclear Tracks and Radiation Measurements, 1991, Vol. 19, p9-10, H. Afarideh
Low Energy Protons and Deutrons Track Registration in CN85 SSNT Detector

Nuclear Tracks and Radiation Measurements, 1991, Vol. 19, p421-2, M. Sohrabi
Efficient Detection and Spectrometry of Alphas from Radon Daughters in Polycarbonate

Nuclear Tracks and Radiation Measurements, 1991, Vol. 19, p537-40, M. Sohrabi
Design Characteristics of a Three-Component AEOI Albedo Neutron Personnel
Dosimeter

Radiation Protection Dosimetry, 1992, Vol. 44, p121-4, M. Khoshnoodi
The Application of a New Geometry Correction Function for the Calibration of Neutron
Spherical Measuring Devices Using Large Volume Neutron Sources

Scientific Bulletin of the Atomic Energy Organization of Iran, 1993, Vol. 11-12, p75-83,
A.A. Bidokhhti
A Numerical Model of Heavy Gas Dispersion

Radiation Protection Dosimetry, 1993, Vol. 48, p279-83, M. Sohrabi
A New Triplet Electrochemical Etching (TECE) Method

Radiation Measurements, 1994, Vol. 23, p235-7, M. Faghih-Habibi
Response on the CN-85 SSNT Detector to Low-Energy Protons and Deutrons

Radiation Physics and Chemistry, 1993, Vol. 42, p523-7, M. Jalili and A. Mohammadi
Gamma Ray Attenuation Coefficient for Neutron-Absorbent Materials

Radiation Physics and Chemistry, 1993, Vol. 42, p799-805, G.R. Raisali and M.
Sohrabpour
Application of EGS4 Computer Code for the Determination of Gamma Ray Spectrum
and Dose rate Distribution in Gammacell 220

Radiation Protection Dosimetry, 1997, Vol. 70, p357-60, M. Khoshnoodi
A New Expression for Determination of Fluences from a Spherical Moderator Neutron
Source for the Calibration of Spherical Neutron Measuring Devices

Journal of Science of the University of Tehran, 1998, Vol. 3, p21-37, A. Pazirandeh,
A.A. Soltanieh, N. Rahimian, and M. Gharib
Research Reactor Fuel Element Leak Testing Using Delayed Neutron Counting

Radiation Measurements, 1999, Vol. 31, p115-20, M. Sohrabi
New Developments on Electrochemical Etching Processes at the Atomic Energy
Organization of Iran

Journal of the Iran University of Medical Science, 1999, Vol. 3, p117-121, M.T.
Bahrayni and M.H. Oroji
Survey of the Environmental Gamma Radiation in Marshad City

Radiation Measurements, 1999, Vol. 31, p153-6, M. Sohrabi and G. Zainali
A New Versatile Electrochemical Etching Chamber System for Multi-Size and Multi-
Shape Detector Processing

Applied Radiation and Isotopes, 1999, Vol. 50, p805-10, M. Sohrabpour, M. Shahriari, V. Zarifian, and K.K. Moghadam
Borehole Prompt Gamma Neutron Activation and Comparison with Monte Carlo Simulation using MCNP Code: Borehole PGNAA Experiment Comparison with MCNP

Annali di Geofisica, 1999, Vol. 42, p1013-21, B. Tavakoli
Seismic Hazard Assessment in Iran

Journal of the Iran University of Medical Science, 2000, Vol. 3, p1-7, M.T. Bahrayni and A. Sadeghzadeh
Evaluation of the Environmental Gamma Radiation in Azarbaeijan

Applied Radiation and Isotopes, 2000, Vol. 52, p127-35, M. Shahriari and M. Sohrabpour
Borehole Parametric Study for Neutron Induced Capture Gamma-Ray Spectroscopy Using the MCNP Code

Applied Radiation and Isotopes, 2001, Vol. 55, p189-195, M. Ghiassi-Nejad, M. Jafarizadeh, M.R. Ahmadian-Pour and A.R. Ghahramani
Dosimetric Characteristics of ^{192}Ir Sources used in Interstitial Brachytherapy

Applied Radiation and Isotopes, 2002, Vol. 57, p537-42, M. Sohrabpour, M. Hassanzadeh, M. Shahriari, and M. Sharifzadeh
Gamma Irradiator Dose Mapping Simulation Using the MCNP Code and Benchmarking with Dosimetry

Radiation Physics and Chemistry, 2002, Vol. 63, p773-5, A. Akhavan, M. Sohrabour and M. Sharifzadeh
Preparation of a New Chemical Radiochromic Film Dosimeter

Radiation Physics and Chemistry, 2002, Vol. 63, p769-72, M. Sohrabpour, M. Hassanzadeh, M. Shahriari and M. Sharifzadeh
Dose Distribution of the IR-136 Irradiator using a Monte Carlo Code and Comparison with Dosimetry

Annals of Nuclear Energy, 2002, Vol. 29, p1989-2000, M.B. Ghofrani and S.A. Damghani
Determination of the Safety Importance of Systems of the Tehran Research Reactor using a PSA Method

Radiation Protection Dosimetry, 2003, Vol. 104, p27-30, M.R. Kardan, S. Setayeshi, R. Koohi-Fayegh and M. Ghiassi-Nejad
Neutron Spectra Unfolding in Bonner Spheres Spectrometry Using Neural Networks

Journal of Nuclear Science and Technology (AEOI), 2003, Vol. 27, p36-47, Syed Abdolamir Tabibian
Enhancement of the Safety Level in Advanced Russian Nuclear Power Plants (VVER) with the Reactor Model V-392

Iranian Journal of Nuclear Medicine, 2003, Vol. 20, p1-6, K. Hadad, M. Alavi, and Y. Gorji
Determination of Absorbed Ratio in I-131 Dosimetry using MCNP-4A

Medical Science Monitor, 2003, Vol. 9, p7-10, M.B. Tavakoli
Annual Radiation background in the City of Isfahan

Iranian Journal of Medical Physics, 2003, Vol. 1, p37-43, A. Sharafi, M. Salouti, and M. Doroudian
A Study of Radioactive Contamination at the Nuclear Medicine Centers in Tehran

Iranian Journal of Radiation Research, 2003, Vol. 1, p87-91, D. Shahbazi-Gahrouei
Annual Background Radiation in Chaharmahal and Bakhtiari Province

Journal of Nuclear Science and Technology (AEOI), 2004, Vol. 31, p35-42, M. Feyzinezhad and C. Khamooshy
Atmospheric Dispersion Modeling in Bushehr Nuclear Power Plants

Journal of Army University of Medical Sciences of the I.R. Iran, 2004, 2(4 Serial Number 8), p463-6, Monfared A. Shabestani
Nuclear Weapons Triage of Injured and Therapeutic Approach to the Acute Radiation Syndrome

Iranian Journal of Radiation Research, 2004, Vol. 2, p1-6, F. Abbasisiar, T. Hosseini, A. Fathivand and Gh. Heravi
Determination of Uranium Isotopes (^{234}U , ^{238}U) and Natural Uranium (U-nat) in Water Samples by Alpha Spectrometry

Iranian Journal of Radiation Research, 2004, Vol. 2, p75-8, M.M. Ahasan
Assessment of Radiation Dose in Nuclear Medicine Hot Lab

Iranian Journal of Radiation Research, 2004, Vol. 2, p79-84, M.T. Bahreyni Toosi and A.R. Khoshbin Khoshnazar
Measurement of Stereotactic Beam Data of 9 MeV X-Rays using Diode Detector

Radiation Protection Dosimetry, 2004, Vol. 109, p253-6, M.R. Deevband, M. Ghiassi-Nejad, S. Borhan-Azad, and M.B. Tavakoli
The Evaluation of Parameters Affecting Accidents in Companies Using Industrial Radioactive Sources in Iran

Insight – Non-Destructive Testing and Condition Monitoring, 2004, Vol. 46, p396-8, K. Edalati, N. Rastkhah, A. Kermani, M. Seidi and A. Movafeghi
In-Service Corrosion Evaluation in Pipelines using Gamma Radiography – A Numerical Approach

Insight – Non-Destructive Testing and Condition Monitoring, 2004, Vol. 46, p594-7, A. Movafeghi, M.H. Kargarnovin, H. Soltanianzadeh, K. Edalati, B. Rokrok, A. Kermani and M. Seidi
A Radiographic Calibration Method for Eddy Current Testing of Heat Exchanger Tubes

Journal of Radiation Protection, 2004, Vol. 24, p173-8, M. Hosseini and M. Jafarizadeh
Effect of Reader and Oven Annealing on the Glow Curve Structure and Fading of a LiF:Mg,Cu,P TL Dosimeter

Nuclear Instruments and Methods in Physics Research A, 2004, Vol. 522, p447-54,
*M.H. Hadizadeh Yazdi, *A.A. Mowlavi, **M.N. Thompson, and *H. Miri Hakimabad
*Physics Department, Ferdowsi University of Mashhad, Mashhad, Iran
**School of Physics, University of Melbourne, Melbourne, Australia
Proper Shielding for NaI(Tl) Detectors in Combined Neutron-Gamma Fields Using MCNP

Iranian Journal of Radiation Research, 2005, Vol. 3, p11-5, *H. Pourbeigi, **A.S. Meigooni, *H. Ghafourian, **R.A. Koonan and ***M.H. Zahmatkesh
*Department of Nuclear Research Center, Atomic Energy Organization of Iran
**Department of Radiation Medicine, University of Kentucky
***Novin Medical Radiation Institute, Tehran, Iran
Enhancement of MD-55-2 Radiochromic Film Sensitivity Using a Multilayer Film Technique for Applications in the Low Dose Range

Iranian Journal of Radiation Research, 2005, Vol. 3, p17-20, F. Bouzarjomehri and M.H. Ehram Poush
Gamma Background Radiation in Yazd Province: A Preliminary Report

Iranian Journal of Physics Research, 2006, Vol. 6, p20-, A. Pazirandeh and E. Shekarian
Beam Neutron Energy Optimization for Boron neutron Capture Therapy using Monte Carlo Method

Journal of Radiation Protection, 2006, Vol. 26, p97-103, F. Torkzadeh and F. Manouchehri
Thermal Neutron Fluence Measurement in a Research Reactor Using Thermoluminescence Dosimeter TLD-600

Journal of Radioanalytical and Nuclear Chemistry, 2006, Vol. 268, p43-6, A.H. Ranjbar and H. Barghordar
Activity Concentration of ^{222}Rn Released from Crushed Granite Stones of Iranian Origin

Journal of Radiation Protection, 2006, Vol. 26, p429-35, M.R. Kardan
Promoting the Safety Performance of Industrial Radiography using a Quantitative
Assessment System

Journal of Radiation Research, 2006, Vol. 47, p279-85, S. Mohammadi, M. Taghavi-
Dehaghani, M.R. Gharaati, R. Masoomi and M. Ghiassi-Nejad
Adaptive Response of Blood Lymphocytes of Inhabitants Residing in High Background
Radiation Areas of Ramsar-Micronuclei, Apoptosis and Comet Assays

Journal of Fusion Energy, 2006, Vol. 25, p47-55, E. Alizadeh
Environmental and Safety Aspects of Using Tritium in Fusion

Applied Radiation and Isotopes, 2006, Vol. 64, p940-7, G. Raisali, N. Hajiloo, S. Hamidi
and G. Aslani
Analysis of Neutron and Gamma-Ray Streaming Along the Maze of NRCAM Thallium
Production Target Room

Radiation Protection Dosimetry, 2006, Advanced access, G. Raisali, H. Davilu, A.
Haghighishad, R. Khodadadi, and M. Sabet
Calculation of Total Equivalent and Collective Dose in the Event of a LOCA in Bushehr
Nuclear Power Plant

Journal of Radioanalytical and Nuclear Chemistry, 2006, Vol. 270, p319-24, M.R. Abdi,
H. Faghihian, A. Hasanzadeh and M. Kamali
Distribution of Natural Radionuclides and Hot Points in Coasts of Hormozgan, Persian
Gulf, Iran

Radiation Protection Dosimetry, 2007, Vol. 125, p224-8, F. Torkzadeh and M. Taheri
Improvement and Calibration of a SSNT Personal Dosimeter and Study of Importance of
Albedo Factor for Dose Calculation

Nuclear Instruments and Methods in Physics Research Section A: Accelerators,
Spectrometers, Detectors and Associated Equipment, 2007, Vol. 580, p384-7, A.
Pazirandeh and A. Taheri
Neutron Micro-Beam Design Simulation by Monte Carlo

Radiation Medicine, 2007, Vol. 25, p315-24, A. Mesbahi, P. Mehnati A. Keshtkar and A.
Farajollahi
Dosimetric Properties of a Flattening Filter-Free 6-MeV Photon Beam: a Monte Carlo
Study

Iranian Journal of Science and Technology, Transaction A, 2007, Vol. 31, p397-401, A.
Akhavan, M. Sohrabpour and M. Sharifzadeh
Dosimetric Evaluation of a Newly Developed Radiochromic Film for Radiation
Processing

Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, 2007, Vol. 263, p473-6, M.N. Nasrabadi, M. Jalali and A. Mohammadi

Calculation of Thermal Neutron Self-Shielding Correction Factor for Aqueous Bulk Sample Prompt Gamma Neutron Activation Analysis Using the MCNP Code

Applied Radiation and Isotopes, 2007, Vol. 65, p1029-36, A. Meshabi
Dosimetric Characteristics of Unflattened 6 MeV Photon Beams of a Clinical Linear Accelerator: A Monte Carlo Study

Iranian Journal of Nuclear Science and Technology, 2008, Vol. 42, p1-6, F. Manouchehri, F. Torkzadeh, N. Mirzajani and S. Jalilian
Thermal Neutron Fluence Measurement using Thermoluminescence Dosimeter TLD-600

Journal of Luminescence, 2008, Vol. 128, p11-4, N. Ghal-Eh and R. Koochi-Fayegh
A Sensitivity Analysis Approach to Optical Parameters of Scintillation Detectors

Iranian Journal of Radiation Research, 2008, Vol. 6, p31-36, K. Adinehvand, M.H. Zahmatkesh, M.R. Aghamiri, S. Akhlaghpour and S. Bagheri
Verification of Dose Rate and Energy Dependence of MAGICA Polymer Gel Dosimeter with Electron Beams

International Journal of Low Radiation, 2008, Vol. 5, p124-133, S.R. Mahdavi, A. Shrizai, A. Khodadadee, M. Ghafoon and A. Meshabi
The Monte Carlo Simulation of the TLD Response Function: Scattered Radiation Field Application

Annals of Nuclear Energy, 2008, Vol. 35, p601-9, S.M. H. Hadavi
Risk-Based Genetic Algorithm Approach to Optimize Outage Maintenance Schedule

Annals of Nuclear Energy, 2008, Vol. 35, p1397-1402, S.A.H. Feghhi, M. Shahriari and H. Afarideh
Calculation of the Importance-Weighted Neutron Generation Time Using MCNIC Method

Radiation Protection Dosimetry, 2008, Advance Access, N. Hajiloo, G. Raisali and G. Aslani
Analysis and Improvement of Cyclotron Thallium Target Room Shield

Annals of Nuclear Energy, 2008, Article in Press, S.M.H. Hadavi
VVER-1000 Shutdown Probabilistic Risk Assessment: An Introductory Insight

Energy Conversion and Management, 2008, Vol. 49, p1972-80, M.R. Nematollahi and A. Zare
A Simulation of a Steam Tube Rupture in a VVER-1000 Plant

Marine Pollution Bulletin, 2008, Vol. 56, p751-7, M.R. Abdi, M. Kamali and S. Vaezifar
Distribution of Radioactive Pollution of ^{238}U , ^{232}Th , ^{40}K and ^{137}Cs in Northwestern
Coasts of Persian Gulf, Iran

Reliability Engineering and System Safety, 2008, Vol. 93, p1377-1409, F. Faghihi, E.
Ramezani, F. Yousefpour and S.M. Mirvakili
Level-1 Probabilistic Safety Assessment of the Iranian Heavy Water Reactor Using
SAPHIRE Software

Applied Radiation and Isotopes, 2008, Vol. 66, p1431-1437, M. Sadeghi, S.H. Hosseini
and G. Raisali
Experimental Measurements and Monte Carlo Calculations of Dosimetric Parameters of
the IRA1- ^{103}Pd Brachytherapy Source

Applied Radiation and Isotopes, 2008, Vol. 66, p1856-1860, G. Raisali, M.C.
Ghonchehnaazi, P. Shokrani and M. Sadeghi
Monte Carlo and Experimental Characterization of the First AMIRS ^{103}Pd Brachytherapy
Source

Radiation Protection Dosimetry, 2008, Advance Access, S. Golmakani, M.V.
Moghaddam and T. Hosseini
Factors Affecting the Transfer of Radionuclides from the Environment to Plants

Nuclear Engineering and Design, 2009, Vol. 239, p239-243, M.K. Shoushtari, T.
Kakavand, H. Ghaforian and S.M. Sadat Kiai
Preliminary Scoping Study of Some Neutronic Aspects of nNew Shim safety Rods for a
Typical 5MW Research Reactor by Monte Carlo Simulation

Applied Radiation and Isotopes, 2009, Article in Press, M. sadeghi and S.H. Hosseini
Study of the IsoAid ADVANTAGETM ^{125}I Brachytherapy Source Dosimetric Parameters
using Monte Carlo Simulation

Nuclear Waste Treatment:

Documents/Reports:

VP-CNS, ST/3	Regulation and Standards of Radioactive Wastes
H. Ghafourian	1996

Thesis:

P. Ashtari, Thesis (M.S.), Teacher Training University, Teheran, Iran, June 1995
Treatment of Radioactive Wastes from Uranium Concentrating

Z. Sabouni, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, July 1995

Liquid Waste Management at Nuclear Power Plant with VVER

M.R. Ghaderi, Thesis (M.S.), Tehran University, July 1999

The Processing of Wastes at in Talmesi and Meskani Mines

Conference Papers:

1st International FEZA Conference, Eger, Hungary, 1999, H. Faghihian, H. Kazemian and M. Ghannadi Maragheh

Synthesis of Zeolite P from Clinoptilolite Rich-Tuffs, Its Potential for Removal of Cs, Sr, Ba, and Ca from Liquid Radioactive Wastes

Research Week of Isfahan University, March 9, 1999, H. Faghihian, M. Ghannadi Maragheh and H. Kazemian

Investigation on the Uptake of ^{137}Cs and ^{90}Sr on the P Zeolite Synthesized from Natural Clinoptilolite

ARS Separatoria 2000, Borowno n Bydgoszcz, Poland, June 14-7, 2000, H. Kazemian, M. Ghannadi Maragheh and H. Faghehian

Sorption and Desorption Behavior of Some Iranian Natural Clinoptilolites towards Radiocesium and Radiostrontium

Congress of Chemistry of Azad University in Cooperation with Louis Pasteur University, April 10-11, 2002, M. Ganjizadeh, I. Bayat, M.T. Sadatippor and I. Yavari

Using of Synthetic Zeolites in the Treatment of Low-Level Liquid Radioactive Waste

International Youth Nuclear Conference, Daejon, South Korea, April 12-16, 2002, H. Kazemian, H. Modarres and H. Ghasemi

Iranian Natural Clinoptilolite and its Relevant Modified and Synthetic Forms as Potential Absorbers for Cerium and Thorium from Liquid Waste Streams

The Agency's Technical Meeting on Regulatory Approaches for the Control of Environmental Residues Containing Naturally Occurring Radioactive Material, September 23-7, 2002, M.H. Mallah, H. Kazemian, H. Ghasemi, M.A. Moshen and A. Malekinedjad

Evaluation of the Removal of Uranium from Nuclear Wastes by Means of Some Zeolitic Exchangers

International Conference on Issues and Trends in Nuclear Waste Management, Vienna, Austria, December 9-13, 2002, H. Kazemian, M. Ghannadi Maragheh, M.H. Mallah, Z.M. Firooz, R. Kooshkestani and S.S. Naghavi

Conversion of Radwaste-Loaded Zeolites into a Borosilicate Glass to Improve Their Properties for Final Disposal

International Conference on Research Reactor Utilization, Safety, Decommissioning, Fuel, and Waste Management, Santiago, Chile, November 10-4, 2003, M. Etthadian, S. Momenzadeh, M. Ansar, A. Maleki and M. Jamalifar
Development of a Centralized Waste Management Facility for Tehran Research Reactor

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, H. Kazemian, M.H. Mallah, H. Ghasemi, and A. Malekinejad
Zeolites and Their Utilizations in Radioactive Waste Treatment

WM'04 Conference, Tucson, AZ, February 29 – March 4, 2004, H. Kazemian, H.G. Mobtaker, M.H. Mallah and M.R. Khani
Nuclear Waste Treatment in Researches in Iran

2nd National Seminar of Chemistry and the Environment, Isfahan, Iran, 2004, H. Faghihian, A. Malekpour, M.R. Maragheh and M. Fazlali
Absorption and Immobilization of Anionic Radionuclides from Nuclear Waste Waters by Natural and Modified Zeolites

8th Iranian Inorganic Chemistry Conference, Tabriz, Iran, August 23-5, 2004, H. Zakeri, M.S. Rabbani and H. Kazemian
Improvement of Radwaste Cleanup of an Iranian Natural Zeolite Using Hydrothermal Modification Procedure

Iranian Nuclear Conference, Bushehr, Iran, February 23-4, 2005, H. Kazemian, P. Daryabi, M.M. Mallah and M.R. Khani
Conversion of Ion Exchange Zeolites with Fission Products Cs and Sr into Borosilicate Glass to Stabilize Radioactive Waste

Iranian Nuclear Conference, Mashad, Iran, February 22-4, 2006, H. Ghasemi, H. Kazemian, A. Malekinejad and M.R. Pakzad
Uranium Recovery from Zeolite P Loaded with Uranyl Nitrate

International Symposia on Zeolites and Microporous Crystals, Yonago, Japan, July 30 – August 2, 2006, M.H. Ghasemi, H. Kazemian, A. Malekinejad and M.R. Pakzad
UO₂²⁺ Sorption on Zeolites A and P Synthesized from Iranian Natural Zeolites

1st Human, Life and Radiation Conference, Rafsanjan University of Medical Sciences, October 29-31, 2006, M. Ganjineh
Adsorption of Cs-137 from Liquid Radioactive Waste Using Synthetic Sorbents

Journal Articles:

Nuclear Science Journal, 1998, Vol. 35, p379-84, H. Faghihian
Use of Iranian Laumontite for Removal of Radiocesium, Ammonium and Magnesium from Liquid Waste

Journal of Radioanalytical and Nuclear Chemistry, 1998, Vol. 231, p153-5, H. Faghihian and H. Kazemian

The Use of Natural Mesolite as a Storage Material for Tritiated Water

Applied Radiation and Isotopes, 1999, Vol. 50, p655-60, H. Faghihian, M.G. Maragheh and H. Kazemian

The Use of Clinoptilolite and Its Sodium Form for Removal of Radioactive Cesium, and Strontium From Nuclear Wastewater and Pb^{2+} , Ni^{2+} , Cd^{2+} , Ba^{2+} , From Municipal Wastewater

Nuclear Science Journal, 2000, Vol. 37, p180-7, H. Faghihian and H. Kazemian
Zeolite P Synthesized from Clinoptilolite Rich-Tuffs as a Potential Material for Removal of Cs, Sr, Ba, and Ca from Liquid Wastes

International Journal of Environmental Pollution, 2002, Vol. 18, p181-9, H. Faghihian, A. Malepour, and M.G. Ghannadi

Adsorption of Molybdate Ion by Natrolite and Clinoptilolite Rich-Tuffs

Journal of Radioanalytical and Nuclear Chemistry, 2003, Vol. 258, p551-6, H. Kazemian, H. Modarres, and H. Ghasemi Mobtaker

Iranian Natural Clinoptilolite and its Synthetic Zeolite P for Removal of Cerium and Thorium from Nuclear Wastewaters

International Journal of Environmental Science and Technology, 2004, Vol. 1, p49-54, F. Moattar and S. Hayeripour

Application of Chitin and Zeolite Adsorbents for Treatment of Low Level Radiative Liquid Wastes

Journal of Radioanalytical and Nuclear Chemistry, 2004, Vol. 261, p619-23, H. Kazemian, M.H. Mallah, and M. Ghannadi Maragheh

Vitrification of HLW Generated by a Production Unit for Radiopharmaceuticals Using Simulated Waste Solutions

Journal of Environmental Studies, 2005, Vol. 31, p1-8, E. Safari

In-Situ Reduction of Leachate organic Loading – Case Study: Kahrizak Landfill

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 39, p9-19, H. Aminfar and J. Ghasemi

Heat Transfer study of High Level Waste Stored in Deep Underground Tunnel and its Effect on Ground Surface Temperature

Applied Radiation and Isotopes, 2007, Vol. 65, p482-7, A. Nilchi, H. Atashi, A.H. Javid, and R. Saberi

Preparation of PAN-Based Adsorbents for Separation of Cesium and Cobalt from Radioactive Wastes

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 44, p35-9, H. Abolghasemi, M. Rostammnejhad, S. Momenzadeh and N. Hadadi
Application of Natural Vermiculite for Cesium Removal from Radioactive Aqueous Waste

Nuclear Physics Research

Documents/Reports:

Tech. Rept. No. 17 NRC Preparation of Am-241 Source for Smoke Detector
H. Ghaforuian 1982

Tech. Rept. No. 58 NRC Preparation of Am-241 Source for Lightening System
H. Ghafourian 1985

Thesis:

R. Koochi-Fayegh, Thesis (M.S.), 1977, University of Birmingham, UK
Implementation of the Unfolding Code FERDOR

R. Koochi-Fayegh, Thesis (PhD), 1980, University of Birmingham, UK
Neutron Spectrum Measurement in a LiF-Be Assembly Using a Miniature NE-213 Spectrometer

H. Afarideh, Thesis (M.S.), 1985, University of Birmingham, UK
Development of New Techniques for Automatic Track Counting

H. Afarideh, Thesis (PhD), 1988, University of Birmingham, UK
Investigation of Light Particles in Ternary and Binary Fission of ^{251}Cf and ^{238}U

A.M. Zolfaghari, Thesis (PhD), 1994, Department of Nuclear Engineering,
Masachusetts Institute of Technology
Electron Cyclotron Emissions Flucuation Diagnostic on JET and PBX-M Tokamaks

F. Shoukouhi, Thesis (M.S.), June 1995
Determination of Proton-Induced M-Shell X-Ray Production Cross Sections in the Rare-Earth Elements

Conference Papers:

American Nuclear Society 1973 Winter Meeting, San Francisco, CA, 1973, M. Sohrabpour
An Analytical Calibration Method for Insitu Neutron Capture Gamma Sondes

International Conference on the Interactions of Neutrons with Nuclei, Lowell, MA, 1976,
M.A. Hooshyar
Neutron Induced Fission of ^{233}U , ^{235}U and ^{239}Pu

Neutron Capture Gamma-Ray Spectroscopy, Upton, New York, 1978, A.A. Soltanieh
Neutron Capture Gamma-Ray Study at Tehran Nuclear Research Center

International Conference on Solid State Nuclear Track Detectors, Bristol, UK, September
7-12, 1981, S.A.R. Al-Najjar, R. Koochi-Fayegh, and S.A. Durrani
Neutron Spectrometry Using Chemical and Electrochemical Etching of CR-39
Work performed at the Department of Physics, University of Birmingham, Birmingham,
UK

Proceedings of the 2nd World Conference on Neutron Radiography, Paris, France, 1986,
K. Kamali, Moghadam, Z. Tabatabaeian, and N. Mirhabibi
Neutron Radiography Facility for AEOI Nuclear Research Center

Proceedings of the 3rd World Conference on Neutron Radiography, Osaka, Japan, 1989,
K. Kamali Moghadam, M.K. Marashi, and H.R. Vafaei
Neutron Radiography Facilities Using a 3 MeV Van De Graaf Accelerator at AEOI
Nuclear Research Center

Particle Tracks in Solids, 15th International Conference, Marburg, Germany, 1990, H.
Afarideh
Beam Profile Measurement of Particles Produced by 3 MeV Van de Graaf

IAEA Nuclear Techniques in the Exploration and Exploitation of Energy and Mineral
Resources, Vienna, Austria, 1991, M. Sohrabpour, V. Zarifian and K.K. Moghadam
Design and Testing of a Laboratory Borehole Facility for Simulation of Neutron Capture
Gamma-Rays

American Nuclear Society Annual Conference, 1993, K. Haddad and W.L. Filippone
Coupled Electron/Photon SN Calculation in Lattice Geometry

International Conference on Nuclear Data for Science and Technology: Nuclear Data for
the Twenty-First Century, Gatlinburg, TN, 1994, M.K. Marashi
Evaluation of IRAN.LIB Nuclear Data Library

Taiwan Nuclear Conference, April 1994, K. Hadad and P.A. Seeker
Scram Reduction Analysis using a Workstation Based Full Scope Power Plant Simulation

Particle Induced X-Ray Emission and Its Analytical Applications. Seventh International
Conference on PIXE and Its Analytical Applications, Padua, Italy, 1996, F. Shoukouhi
M-Shell X-Ray Production Cross Sections of Tb, Ho, Tm, and Lu for Protons of Energy
2-6 MeV

International Symposium on Capture Gamma-Ray Spectroscopy and Related Topics,
Budapest, Hungary, 1996, A.V. Murzin
Reactor Filtered Neutron Beams for Astrophysical and BNCT Investigations

International Conference on Nuclear Data for Science and Technology, Trieste, Italy,
1997, A. Pazirandeh
Cold Neutron Flux Calculation in Liquid Hydrogen Using Monte Carlo Method

International Conference on Nuclear Data for Science and Technology, Trieste, Italy,
1997, S. Rastikerdar
 ^{102}Pd New Results

International Conference on Nuclear Data for Science and Technology, Trieste, Italy,
1997, Z. Kargar
Study of Spin Dependent Nuclear Level Density

International Conference on Nuclear Data for Science and Technology, Trieste, Italy,
1997, A.N. Behkani
Limiting Angular Momentum and Spin Dependent Nuclear Level Density

Iranian Annual Physics Conference, August 23-5, 1997, R. Koohi-Fayegh, H. Miri and
M.H. Hadizadeh
Experimental and Computational Analysis of Neutron Flux Transmitted From Spherical
Beryllium Shells

Iranian Physics Society, September 1999, Babbolsar, Iran, K. Hadad
Charged Particles Calculations in Lattice Geometry

Conference on the Applications of Physics and Nuclear Sciences in Medicine and
Industry, Tehran, Iran, February 07, 2000, K. Hadad
Evaluation and Comparison of SN and Monte-Carlo Charged Particle Transport
Calculations

20th International Conference on Nuclear Tracks in Solids, September 2000, F. Ziaie, A.
Karimi, H. Afarideh, S.M. Hadji-Saied and S.A. Durrani
Manufacturing of the Graphite Calorimeter at Yazd Radiation Processing and Research
Center

Conference on the Applications of Physics and Nuclear Sciences in Medicine and
Industry, Tehran, Iran, February 07, 2000, K. Hadad
Evaluation and Comparison of SN and Monte Carlo Charged Particle Transport
Calculations

Fourth International Chemical Engineering Conference, May 2000, Shiraz, Iran, K.
Hadad
An Overview of the Relap5/Mod3 Thermal Hydraulic Computer Code

International Conference on Nuclear Data for Science and Technology, Tsukuba, Japan, October 7-12, 2001, F. Abassi, H. Afarideh, R. Koochi, G.R. Etaati, M. Aboudzadeh and G. Aslani

Fast Neutron Production by 20-30 MeV Proton Bombardment of Lithium at NRCAM

Meeting of Nuclear Physicists and Experts of Iran, February 20-1, 2002, A.A. Salehi, N. Vosoughi and M. Shahariai

Production of Neutronic Discrete Equations for a Cylindrical Geometry in One Group Energy and Benchmark the Results with MCNP-4B Code With a One Energy Group Library

International Conference on Nuclear Engineering, 2003, N. Vosoughi, A.A. Salehi and M. Shahriari

Application of Direct Discrete Method (DDM) to Multigroup Neutron Transport Problems

International Conference on Emerging Nuclear Energy Systems, Istanbul, Turkey, June 3-8, 2003, S.A.H. Feghhi, A. Afarideh and M. Shahriari

Calculation of Neutron Importance Function in Fissionable using Monte Carlo Method

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, Y. Zarei Yuzband

Feasibility Study of Uncontrolled Fission Chain Reaction

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, K. Hadad, A. Mohamadi, H. Sabel, N. Ayobian, and M. Khani

Numerical Solution of Multi Groups Point Kinetic Equations by Simulink Toolbox of Matlab Software

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, M. Moradshahi, M. Avakian, A.A. Dabrizadeh and S. Shayegan

Ion Sources in the Center Fusion Atomic Energy Organization of Iran

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, G.R. Raisali and K. Keshtkar

Development of a Computer Code for Optimization of Nuclear Reactor Radiation Shield Using Non-Linear Programming

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, M. Shayesteh, M. Shariari, and G. Raisali

Noise Analysis in the Start-Up of a Research Reactor without External Source

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, V. Siahpoush, M.A. Mohammadi, S. Khorram, I. Shabani, J. Borhanian, S. Ashrafi, H. Naghshara, M. Moslehi-Fard and S. Sobhanian

Preliminary Results of Neutron Production in Sahand Plasma Focus Device

Annual Iranian Nuclear Conference, Arak University, Iran, 2004, M. Shayesteh, M. Shariari, and G. Raisali
Investigation in Start-Up of a Research Reactor in Weak Source Conditions

Annual Iranian Nuclear Conference, Arak University, Iran, 2004, M. Shahriari, H. zaki and G.R. Etaati
Calculation of Recoil Nuclei Specifications on the Elastic Scattering with Neutron Using MCNP Code

International Yugoslav Nuclear Society Conference, Belgrade, Serbia, Septemebr 27-30, 2004, N. Vosoughi and M.Shahriari
Finite Formulation of One-Group Neutron Diffusion Equation

International Nuclear Chemistry Congress, Kusadasi, Turkey, May 22-9, 2005, A. Mohammadpour, S. Sobhanian, and S. Ashrafi
Neutron Flux Measurement by Activation Analysis

International Topical Meeting on Nuclear Reactor Thermal Hydraulics, Avignon, France, October 2-6, 2005, S.K. Mousavian, M.M. Ertejaei, and M. Shahabfar
Transient Thermal-Hydraulic/Neutronic Analysis in a VVER-1000 Reactor Core

5th Conference on Nuclear and Particle Physics, Cairo, Egypt, November 19-23, 2005, N. Vosoughi, A.A. Salehi and M. Shahriari
On Equivalence of Discret Method with Linear Interpolation and Control Volume Finite Element Method (CVFEM) for Neutron Diffusion Equation

5th Conference on Nuclear and Particle Physics, Cairo, Egypt, November 19-23, 2005, S. Kimiagar
A Simple Method for X-Ray Monochromating

International Conference on Emerging Nuclear Energy Systems, Istanbul, Turkey, June 3-8, 2007, S.A.H. Fegghi, H. Afarideh and M. Shahriari
Calculation of Neutron Importance in Fissionable Assemblies using Monte Carlo Method

Nuclear Science Symposium, Honolulu, HI, October 26 – November 3, 2007, M.R. Ay, P. Ghafrain and H. Zaidi
A Hybrid Appraoch for Fast Simulation of X-Ray Computed Tomography

Nuclear Science Symposium, Honolulu, HI, October 26 – November 3, 2007, M.R. Ay, H. Ghadiri, P. Ghafrain, S. Sarkar and H. Zaidi
The Influence of Energy Indexing Algorithm and Electron Substeps on MCNP4C Electron Transport: Application in Monte Carlo Simulation of X-Ray Spectra in Diagnostic Radiology

Nuclear Science Symposium, Honolulu, HI, October 26 – November 3, 2007, P.
Ghafarian, M.R. Ay, S. Sarkar, H. Ghadiri and H. Zaidi
Impact of X-Ray Tube Voltage, Field Size and Object Thickness on Scattered Radiation
Distribution in Diagnostic Radiology: A Monte Carlo Investigation

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November
17-21, 2007, Sh. Banari
Simulation of a Hexagonal Collimator and Detection System of SPECT by Using the
MCNP4 Method

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November
17-21, 2007, S. Mahmoudian
Computation of the Average Number of Produced Particles, Using Grand Canonical
Ensemble for Relativistic Heavy-Ions Collisions

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November
17-21, 2007, M.F. Rahimi
Monte Carlo Simulation of 14MeV Neutrons Slowing Down Energy, Distance and Time,
In Finite Media

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November
17-21, 2007, M.F. Rahimi
Study of Neutron Erosion in First Wall of Reactor Materials and Target in Fusion
Neutron Generator

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November
17-21, 2007, M.R. Pahlavani
Langevin Approach to Kinetic Energy Distribution of Fission Fragments in Asymmetric
Mode of Heavy-Ion Reactions

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November
17-21, 2007, M.N. Nasrabadi
Calculation of Thermal Neutron Self-Shielding Correction Factors for Aqueous Bulk
Sample Prompt Neutron Activation Analysis using the MCNP Code

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November
17-21, 2007, I. Forozankya
Study of Induced and Spontaneous Ternary Fission of (Cf, U, Pb, Bi, Th, Au) by
Theoretical and Experimental Methods Using Thermal Neutrons, 2.1 GeV Deuterium
Beam and 300 GeV Proton Beam, as Projectiles on the Above Targets

6th International Conference on Nuclear and Particle Physics, Luxor, Egypt, November
17-21, 2007, F. Babapour
Wavelets for the Analysis of HPGe Gamma-Ray Spectra

Journal Articles:

Nucleus, 1971, Vol. 8, p83-7, F. Sefidvash

Neutron Properties of Organic Moderators and Coolants

Nuclear Physics, 1971, Vol. A175, p629-40, B. Parsa, A. Ashari, L. Goolvard and Y.M. Nobar

Decay Scheme of 2.71hr ^{92}Sr

Journal of Nuclear Science and Technology, 1972, Vol. 9, p551-4, A. Razani
A Monte Carlo Method for Radiation Transport Calculations

Helvetica Physica Acta, 1973-1974, Vol. 46, p720-3, M.A. Hooshyar
Total Spontaneous Fission Half-Life, Mass and Charge Distribution of ^{252}Cf

Helvetica Physica Acta, 1973-1974, Vol. 46, p724-8, M.A. Hooshyar
Total Spontaneous Fission Half-Lives, Kinetic Energy and Mass Yield Spectra of ^{250}Cm , ^{254}Cf and ^{258}Fm

Physics Letters B, 1975, Vol. 55B, p144-6, M.A. Hooshyar

Charge Distributions and Average Masses in the Spontaneous and Isomeric Fission of ^{234}U , ^{236}U and ^{240}Pu

Nuclear Science and Engineering, 1975, Vol. 1, p537-46, H. Aminfar and A. Razani
Radial Distribution of Reflection and Transmission of Scattered Gamma Rays

Nuclear Track Detection, 1978, Vol. 2, p119-26, D. Azimi-Garakani

Measurement of Fission-Rate Distributions on a Standard Uranium Shell

Applied Physics Letters, 1978, Vol. 33, p676-7, M.R. Khan

Proton-Induced X-Ray Emission Analysis of Thick Targets – A New Approach

Nuclear Instruments and Methods, 1979, Vol. 159, p135-8, D. Azimi-Garakani

Sensitivity Analyses for the Secondary Intermediate-Energy Standard Neutron Field at the NISUS Facility

Nuclear Technology, 1979, Vol. 42, p343-9, A. Aframian

Neutron Fluence Measurements with Solid-State Nuclear Track Detectors: Results of a Comparative Study with Gold and Indium Foils

Atomkernenergie Kerntechnik, 1981, Vol. 39, p249-52, A.A.S. Jalyani

A New Monte Carlo Method for Gamma Ray Transport Calculations

International Journal of Applied Radiation and Isotopes, 1981, Vol. 32, p119-9, H. Mohammadi
Dosimetric Influence of Secondary Electrons during Accelerator-Produced Fast Neutron Irradiation

Nuclear Tracks and Radiation Measurements, 1983, Vol. 7, p121-8, D. Azimi-Garakani
 ^{235}U : ^{238}U Fission-Ratio Measurements in a Fast-Neutron Field

Helvetica Physica Acta, 1984, Vol. 57, p416-20, R. Varatianian
Spontaneous Fission Decay Constant of ^{238}U by the Fission Track Technique

Journal of Physics G, 1984, Vol. 10, pL251-5, M. Modarres
Local Density Approximation for Alpha-Particle Binding Energy

Annals of Nuclear Energy, 1990, Vol. 17, p143-51, H. Afarideh
Angular Distribution of Fragments from the Fission of ^{238}U Induced by Neutrons in the Energy Range of 1-18 MeV

Nuclear Science Journal, 1990, Vol. 27, p308-14, M. Eskandari
The Effect of Interference between the Resonances of Uranium-238 for Thermal Lattices

Nuclear Tracks and Radiation Measurements, 1991, Vol. 19, p801-2, H. Afarideh
Beam Profile Measurement of Particles Produced by 3 MeV Van de Graff Accelerator

Nuclear Tracks and Radiation Measurements, 1991, Vol. 19, p553-4, H. Afarideh
Angular Distribution of Fragments from the Fission of ^{238}U and ^{232}Th Induced by Neutrons in the Energy Range of 1-18 MeV

Annals of Nuclear Energy, 1991, Vol. 18, p597-602, M.K. Marashi
IRAN.LIB (Improved Range of ANISN/PC Library): A P-3 Coupled Neutron-Gamma Cross-Section Library in ISOTXS Format to be used by ANISN/PC (CCC-0514/02)

Nuclear Instruments and Methods in Physics Research, 1992, Vol. A317, p399-401, *S. Green, **R. Koohi-Fayegh, and *M.C. Scott
A Gated Single Parameter Data Acquisition System for Fast Neutron Spectroscopy with NE-213

*School of Physics and Space Research, University of Birmingham, Birmingham, UK
**Physics Department, Ferdowsi University of Mashhad, Mashhad, Iran

Annals of Nuclear Energy, 1993, Vol. 20, p365-70, M.A. Salehi
Solution of the 1-D Multigroup Time-Dependent Diffusion Equation Using the Orthogonal Collocation Method

Nuclear Science Journal, 1993, Vol. 30, p231-3, M. Eskandari
Neutron Mean Leakage Time for the CF-251/252 Power System

Radiation Measurements, 1995, Vol. 24, p265-76, M. Sohrabi
A Novel Track Density Measurement Method by Thermal Neutrons Activation of
DYECETs

Journal of Physics G, 1996, Vol. 22, p1037-42, S. Rastikerdar
New Results on ^{102}Cd

Radiation Measurements, 1997, Vol. 28, p533-6, F. Ziaie, A.A. Houseini and S.A.
Durrani
Neutron Flux Distribution Measurements Methods and Comparison

Journal of Physics B, 1997, Vol. 30, p863-72, A. Amirabadi
L Subshell and Total M Shell X-Ray Production Cross Section of Hg for Protons of
Energy 0.7-2.9 MeV

Nuclear Science Journal, 1999, Vol. 36, p100-13, A.N. Behkani
Study of Fragment Anisotropies and Inertia Parameters

Physics Letters A, 1999, Vol. 256, p212-6, *A. Tavakoli, **D.D. Tskhakaya, and **N.L.
Tsintsadze

*Institute for Studies in Theoretical Physics and Mathematics, Tehran
**Institute of Physics, Georgian Academy of Sciences, Tbilisi, Georgia
Rayleigh-Taylor Instability in the Presence of a Density Transition Layer

Nuclear Instruments and Methods in Physics Research, 1999, Vol. 431, p380-2, *S.
Green, **R. Koochi-Fayegh, and *M.C. Scott
*School of Physics and Space Research, University of Birmingham, Birmingham, UK
**Physics Department, Ferdowsi University of Mashhad, Mashhad, Iran
An Observation on the Response of Small NE-213 Scintillation Detectors to High Energy
Neutrons

Applied Radiation and Isotopes, 1999, Vol. 50, p805-10, M. Sohrabpour, M. Shahriari,
V. Zarifian and K.K. Moghadam
Borehole Prompt Gamma Neutron Activation and Comparison with Monte Carlo
Simulation Using MCNP Code

Iranian Journal of Physics Research, 2000, Vol. 1, p78-, M.H. Alamatsaz and A. Shirani
A Method for Simulating Photon Transport through Matter

Nuclear Science Journal, 2000, Vol. 37, p307-12, A.N. Behkani
Study of Fragment Anisotropies in Neutron-Induced Fission of ^{240}Pu

Nuclear Science Journal, 2000, Vol. 37, p403-8, A.N. Behkani
Statistical Treatment of Fission Fragments Produced in Heavy-Ion Reactions

Annals of Nuclear Energy, 2000, Vol. 27, p959-67, R. Koohi-Fayegh, M.H. Abad, S. Green and M.C. Scott
Neutron Spectrum Measurements from 1-16 MeV in Beryllium Assemblies with a Central D-T Neutron Source

Iranian Journal of Physics Research, 2001, Vol. 2, p3-, M. Khalaj, R. Koohi-Fayegh and M.H. Hadizadeh Yazdi
The Calculated Neutron Energy Spectrum of alpha-n Sources Using Monte Carlo Method

Nuclear Instruments and Methods in Physics Research A, 2001, Vol. 460, p391-400, *R. Koohi-Fayegh, *S. Green, and *M.C. Scott
A Comparison of Neutron Spectra Unfolding Codes Used with a Miniature NE213 Detector
*School of Physics and Astronomy, University of Birmingham, Birmingham, UK

Iranian Journal of Nuclear Science and Technology, 2001, Vol. 38, p901-6, H. Noshad, S. Soheyli, and M. Lamehi-Rachti
Fission of ^{209}Bi and ^{197}Au Nuclei Induced by 30 MeV Protons

Physics Review C, 2001, Vol. 63, p64607, A.N. Behkani, Z. Kargar, P. Nazarzadeh, and M.N. Nasrabadi
Microscopic Study of Fission Fragment Annular Distributions

Iranian Journal of Physics Research, 2002, Vol. 3, M.H. Alamatsaz and A. Shirani
Calculation of Point Isotropic Buildup Factors of Gamma Rays for Water and Lead

Radiation Physics and Chemistry, 2002, Vol. 63, p177-83, F. Ziaie, Z. Zimek, S. Bulka, H. Afarideh and S.M. Hadji-Saied
Calculated and Measured Dose Distribution in Electron and X-Ray Irradiated Water Phantom

Radiation Measurements, 2002, Vol. 35, p327-31, H. Noshad, S. Soheyli, M. Lamehi-Rachti, A.R. Talebi-Taher, G. Aslani, S. Maboudi-Moghaddam, J. Rahighi, O.R. Kakue and H. Heydari
Nuclear Physics Research at the 30 MeV Karaj Cyclotron

Iranian Journal of Physics Research, 2002, Vol. 3, p101-7, F.A. Davani, G.R. Etaati, R.K. Fayegh, and G.R. Aslani
Neutron Spectrum Measurement in D + Be Reaction

Applied Radiation and Isotopes, 2002, Vol. 57, p537-42, M. Sohrabpour, M. Hassanzadeh, M. Shahriari and M. Sharifzadehh
Gamma Irradiator Dose Mapping Simulation Using the MCNP Code and Benchmarking With Dosimetry

Annals of Nuclear Energy, 2002, Vol. 29, p1195-208, S. Sheibani, F. Moattar, M. Ghannadi Maragheh and H. Khalafi
Investigation of a Simple and Efficient Method for Silicon Neutron Transmutation Doping Process in Tehran Research Reactor

Nuclear Technology and Radiation Protection, 2003, Vol. 18, p12-23, N. Vosiughi, A.A. Salehi, M. Shahriari and E. Tonti
Direct Discrete Method and its Application to Neutron Transport Problems

Annals of Nuclear Energy, 2003, Vol. 31, p231-53, N. Vosoughi, A.A. Salehi and M. Shahriari
Discrete Formulations for Two-Dimensional Multigroup Neutron Diffusion Equations

Radiation Measurements, 2003, Vol. 37, p237-45, F. Abbasi Davani, R. Koohi-Fayegh, H. Afarideh, G.R. Etaati and G.R. Aslani
Design, Calibration and Testing of the NRCAM Fast Neutron Spectrometry System

Iranian Journal of Physics Research, 2004, Vol. 4, p18-, R. Izadi-Najafabadi, R. Koohi-Fayegh and H. Afarideh
Measurment and Calculation of High Energy Neutron Flux in Aluminum, Graphite, Water and Paraffin Assembly

Nuclear Instruments and Methods in Physics Research A, 2004, Vol. 516, p116-21, *N. Ghal-Eh, **M.C. Scott, *R. Koochi-Fayegh, and *M.F. Rahimi
A Photon Transport Model Code for Use in Scintillation Detectors
*Physics Department, Ferdowsi University of Mashhad, Mashhad, Iran
**BNCT Group, School of Physics and Astronomy, University of Birmingham, Birmingham, UK

Nukleonkia, 2004, Vol. 49, p159-62, F. Ziaie
Manufacturing of a Graphite Calorimeter at Yazd Radiation Processing Center

Journal of Fusion Energy, 2004, Vol. 23, p207-215, E. Sharbati, B. Safavisohi and C. Aghanajafi
Transient Heat Transfer Analysis of a Layer Considering the Effect of Radiation

Annals of Nuclear Energy, 2004, Vol. 31, p231-53, N. Vosoughi, A.A. Salehi, and M. Shahriari
Discrete Formulation for Two-Dimensional Multigroup Neutron Diffusion Equations

Applied Mathematics and Computation, 2004, Vol. 155, p563-72, F. Faghihi and K. Hadad
Numerical Solutions of Coupled Differential Equations and Initial Values Using Maple Software

Radiation Physics and Chemistry, 2004, Vol. 69, p461-5, M.A. Allaf, M. Shahriari, and M. Sohrabpour

Monte Carlo Source Simulation Technique for Solution of Interference Reactions in INAA Experiments: A Preliminary Report

Radiation Measurements, 2004, Vol. 38, p185-91, M.R. Kardan, R. Koohi-Fayegh, S. Setayeshi and M. Ghiassi-Nejad

Fast Neutron Spectra Determination by Threshold Activation Detectors using Neural Networks

Nuclear Instruments and Methods in Physics Research A, 2004, Vol. 522, p447-54, M.H.

Hadizadeh Yazdi, A.A. Mowlavi, M.N. Thompson and M.H. Hakimabad

Proper Shielding for NaI(Tl) Detectors in Combined Neutron-Gamma Fields using MCNP

Applied Mathematics and Computation, 2004, Vol. 155, p563-72, F. Faghihi and K. Hadad

Numerical Solutions of Coupled Differential Equations and Initial Values using Maple Software

Journal of Nuclear Science and Technology (AEOI), 2004, Vol. 31, p43-6, H. Fathollahi, H. Ahari Mostafavi, and F. Majd

Investigation of the Possibility of Extension of Irradiation Domain for Gamma-Cell Facility to Lower Doses

Applied Radiation and Isotopes, 2004, Vol. 60, p959-62, A.A. Mowlavi and R. Koohi-Fayegh

Determination of 4.438 MeV Gamma-Ray to Neutron Emission Ratio from a ^{241}Am - ^9Be Neutron Source

Nukleonika, 2005, Vol. 50, p121-4, F. Ziaie and S.M.R. Tahami

Mass Throughput Rate Calculation for X-Ray Facilities

Journal of Nuclear Science and Technology (AEOI), 2005, Vol. 33, p15-20, A.

Pazirandeh and H. Poo-Soaimani

Study on the Feasibility of using ^{99}Tc as a Burnable Poison Instead of ^{10}B in Nuclear Fuel Assemblies

Applied Radiation and Isotopes, 2005, Vol. 62, p461-8, A. Kamali-Asl, S. sarkar, M. Shahriari and H. Agha-Hosseini

Slit Slat Collimator Optimization with Respect to MTF

International Journal of Pure and Applied Physics, 2005, Vol. 1, p129-36, A.A. Mowlavi,

R.I. Najafabadi and R. Koohi-Faygh

Calculation of Intrinsic Efficiency of NaI(Tl) Detector Using MCNP Code

International Journal of Modern Physics E, 2005, Vol. 15, p727-, F. Faghihi
Neutron Flux Distribution of Pu-Be Source using MCNP-4B Code

Nuclear Instruments and Methods in Physics Research A, 2005, Vol. 552, p559-65, A.A. Mowlavi, R. Koochi-Fayegh
Tally Modifying of MCNP and Post Processing of Pile-Up Simulation with Time Convolution Method in PGNAA

Mechanical and Aerospace Engineering Journal, 2006, Vol. 1, p21-36, H. Movlani and K. Mazaheri
Utilizing a Mixed Implicit-Explicit Method for Solving Radiation Hydrodynamics Equations

International Journal of Modern Physics E, 2006, Vol. 15, p737-45, F. Faghihi, S. Mehdizadeh, and K. Hadad
Neutrons Flux Distribution of the Pu-Be Source and its Simulation by the MCNP-4B Code

Journal of Radioanalytical and Nuclear Chemistry, 2006, Vol. 269, 95-8, S. Ashrafi, S. Anvarian, and S. Sobhanian
Monte-Carlo Modeling of a NaI(Tl) Scintillator

International Journal of Modern Physics E, 2006, Vol. 15, 737-46, F. Faghihi, S. Mehdizadeh and K. Hadad
Neutron Flux Distributions of the Pu-Be Source and its Simulation by the MCNP4B Code

Annals of Nuclear Energy, 2006, Vol. 33, p786-93, M.K. Marashi, G. Raisali, and F. Bolouri
Investigation of $^{203/81}\text{Tl}(p,3n)^{201/82}\text{Pb}$ Nuclear Reaction in a Cyclotron Accelerator as a Neutron Source

International Journal of Modern Physics E, 2006, Vol. 16, p805-15, F. Faghihi and M.R. Nematollahi
Nuclear Fuel Depletion Analysis Using Matlab Software

Chinese Physics Letters, 2006, Vol. 23, p1434-6, R. Sadighi-Bonabi and O. Kokabee
Evaluation of Transmutation of ^{137}Cs (γ, n) ^{136}Cs Using Ultra-Intense Lasers in Solid Targets

Journal of Fusion Energy, 2006, Vol. 25, p181-5, M. Abdollahzadeh, S.M. Sadat Kiai, G.R. Etaati and A.R. Babazadeh
Some Studies on the Time Resolved Energy Spectrum Reconstruction for Pulsed Neutron Source

Journal of Sciences, Islamic Republic of Iran, 2007, A. Shirani and E. Shahriari
Determination of Neutron Dose-Equivalent Buildup Factors for Infinite Slabs Irradiated
by Point Isotropic Neutron Sources Using the MCNP Code

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 38, p36-41, S. Kashian,
J. Rahighi, M. Azizi Shamani and H. Ghods
Measurement of 14.8 MeV Neutron Flux of a Neutron Generator using Neutron
Activation Technique

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 39, p1-8, M. Shayesteh,
M. Shahriai and G. Raisli
Simulation of Time Dependent Neutron Transport in Fission Reactors using Monte-Carlo
Method

Iranian Journal of Radiation Research, 2007, Vol. 4, p183-6, D.R. Ochbelagh, H.M.
Hakimabad and R.I. Najafabadi
The Effect of Source Shield on Landmine Detection

Advanced Studies in Theoretical Physics, 2007, Vol. 1, p367-379, K. sadeghy, S.M.
Tagjavi, N. Khabazi, M. Mirzadeh and I. Karimfazli
On the use of Hydrodynamic Instability Test as an efficient Tool for Evaluating
Viscoelastic Fluid Models

International Journal of Modern Physics A, 2007, Vol. 22, p1027-37, S. Soheyli, H.
Noshad, and M. Lamehi-Rachti
Measurement of Fission Fragments Anistropies for Proton-Induced Fission of Two Pre-
Actinide Nuclei at Several Energies

Iranian Journal of Radiation Research, 2007, Vol. 5, p41-4, T. Kakavand, H. Ghafourian
and M. Haji-Shafeieha
Designing a Am-Be Miniature Neutron Source

Annals of Nuclear Energy, 2007, Vol. 34, p514-20, S.A.H. Fegghi, M. Shahriari and H.
Afarideh
Calculation of Neutron Importance Function in Fissionable Assemblies Using Monte
Carlo Method

Chinese Physics Letters, 2007, Vol. 24, p1525-8, S. Soheyli
Energy and Mass Distribution of Induced-Fission of ^{197}Au Nucleus by 29 MeV Protons

Radiation Physics and Chemistry, 2007, Vol. 76, p917-20, N. Ghal-Eh, R. Koohi-Fayegh,
and S. Hamidi
Low-Energy Neutron Flux Measurement Using a Resonance Absorption Filter
Surrounding a Lithium Glass Scintillator

Applied Radiation and Isotopes, 2007, Vol. 65, p918-26, H.M. Hakimabad, H. Panjeh and A. Vejdani-Noghreiyani
Evaluation of the Nonlinear Function of a 3x3 NaI Scintillation Detector for PGNAA Applications

Radiation Measurements, 2007, Vol. 42, p1332-4, H. Zaki-Dizaji, M. Shahriari and G.R. Etaati
Monte Carlo Calculation of CR-39 Efficiency for Fast Neutron Detection using a Combination of MCNP and SRM Codes, and Comparison with Experimental Results

Asian Journal of Experimental Science, 2008, Vol. 22, p153-8, H. Miri-Hakimabad, H. Panjeh and A. Vejdani-Noghreiyani
An Optimum Landmine Detection System Using Polyethylene Moderator and $^{241}\text{Am-Be}$ as a Neutron Source

Radiation Physics and Chemistry, 2008, Vol. 77, p523-7, M. Jalili and A. Mohammadi
Gamma Ray Attenuation Coefficient Measurement for Neutron-Absorbent Materials

Advanced Studies in Theoretical Physics, 2008, Vol. 13, p625-35, S.N. Hosseinimotlagh and S.A. Araghi
Determination of Effective Thermal Neutron Diffusion Length in Different Diffusing Media by Using Darboux Method

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 45, M. Tajik and A. Ghasemizad
The Study of Two, Three and Four Dimensional Nonlinear Dynamics of Nuclear Fission Reactors and Effective Parameters on its Behavior

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 45, M. Shayesteh, M. Shahriari and G. Raisali
Time and Space Dependent Neutronic Calculations using TDMC Monte Carlo Code

Applied Mathematical Sciences, 2008, Vol. 2, p1929-48, S.N. Hosseinimotlagh, S.A. Araghi, L. Montazeran and S. Basteni
Calculation of Thermal Neutron Flux in Two Dimensional Structures with Periodic Moderators

Applied Radiation and Isotopes, 2008, Vol. 66, p606-11, H. Miri-Hakimabad, A. Vejdani-Noghreiyani and H. Panjeh
Improving the Moderator Geometry of an Antipersonnel Landmine Detection System

Annals of Nuclear Energy, Article in press, 2008, S.A.H. Fegghi, M. Shahriari and H. Afarideh
Calculation of the Importance-Weighted Neutron Generation Time Using MCNIC Method

Annals of Nuclear Energy, 2009, Vol. 36, p15-27, M. Boroushaki
Numerical Solution of the Neutron Transport Equation using Cellular Neural Networks

Applied Radiation and Isotopes, 2009, Vol. 67, p266-71, R. Taleei and M. Shahriari
Monte Carlo Simulation of X-Ray Spectra and Evaluation of Filter Effect using
MNCP4C and FLUKA Code

Annals of Nuclear Energy, 2009, Vol. 36, p547-549, M. Sohrabour and A.O. Ezzati
Monte Carlo Simulation and Benchmarking of Pulsed Neutron Experiments in Variable
Buckling BeO Systems

Annals of Nuclear Energy, 2009, Vol. 36, p901-909, M. Shayesteh and M. Shahriari
Calculation of Time-Dependent Neutronic Parameters using Monte Carlo Method

Equation of State Research

Conference Papers:

5th National Iranian and 4th International Chemical Engineering Conference, Shiraz
University, Iran, April 24-7, 2000, M. Vafaie, A.A. Babaluo and A.A. Izadpanah
A Modification of Patel and Teja Cubic Equation of State by Proposing a Proper Alpha
and Beta Function

Journal Articles:

Journal of Physics G, 1993, Vol. 19, p1349-58, M. Modarres
LOCV Calculations of Pressure in Nuclear Matter at Finite Temperature

Physical Review B, 1994, Vol. B49, p3049-60, *G. Parsafar and *E.A. Mason
Universal Equation of State for Compressed Solids
*Work done at the Department of Chemistry and Division of Engineering, Brown
University, Providence, Rhode Island

Journal of Physics G, 1995, Vol. 21, p351-9, M. Modarres
Neutron Matter Equation of State and Thermal Energy of Nuclear Matter

Journal of Physics G, 1997, Vol. 23, p923-37, M. Modarres
Lowest-Order Constrained Variational Calculation for Hot Asymmetric Nuclear Matter

International Journal of Thermophysics, 1997, Vol. 18, p1027-34, A. Boushehri
Thermophysical Properties from the Equation of State of Mason and Co-Workers

International Journal of Thermophysics, 1997, Vol. 18, p1329-34, N. Mehdipour and A.
Boushehri
An Analytical Equation of State for Mercury

International Journal of Thermophysics, 1999, Vol. 20, p611-29, H. Eslami and A. Boushehri

The Equation of State of Song and Mason Applied to Fluorine

Nuclear Science Journal, 2000, Vol. 37, p409-15, G.H. Bordbar
Isentropic Equation of State of Asymmetrical Nuclear Matter

Physical Review C, 2000, Vol. C62, p044308-, M. Modarres and H.R. Moshfegh
Lowest-Order Constrained Variational Calculation for beta-Stable Matter at Finite Temperatures

Fluid Phase Equilibria, 2003, Vol. 206, p27-39, M. Mohsen-Nia, H. Modarres, and G.A. Mansoori
A Cubic Hard-Core Equation of State

Fluid Phase Equilibria, 2004, Vol. 215, p23-8, H. Eslami
Corresponding-States Correlation for the Compressed Liquid Density of Metals

Fluid Phase Equilibria, 2004, Vol. 215, p277-81, H. Eslami, M. Farrokhina, N. Mehdipour, and A. Boushehri
A Perturbed Hard-Sphere Equation of State for Refractory Metals

Nuclear Physics A, 2005, Vol. 749, p130c-133c, H.R. Moshfegh and M. Modarres
The Properties of Hot Nuclear Matter in LOCV Formalism

Journal of Nuclear Materials, 2005, Vol. 336, p135-9, H. Eslami
A Perturbed Hard-Sphere-Chain Equation of State for Liquid Metals

Journal of Non-Crystalline Solids, 2005, Vol. 351, p1333-7, N. Mehdipour, A. Boushehri and H. Eslami
Prediction of the Density of Molten Metals

The Chemical Society of Japan, 2006, Vol. 79, p67-74, M.M. Papari, D. Mohammad-Aghaie, J. Moghadasi and A. Boushehri
Semi-Emperically Based Assessment for Predicting Dilute Gas Transport Properties of F₂ and Ar-F₂ Fluids

Journal of Nuclear Materials, 2006, Vol. 348, p40-4, E.K. Goharshadi and A.R. Berenji
A New Equation of State for Predicting the Thermodynamic Properties of Liquid Alkali Metals

High Temperature High Pressure, 2006, Vol. 36, p541-8, A. Maghari and M. Dargahi
Calculation of Thermophysical Properties of Hydrogen from the Statistical Mechanical Equation of State

Journal of Physics: Condensed Matter, 2006, Vol. 18, p4793-4800, M.H. Mousazadeh and M Ghanadi Marageh
A Perturbed Lennard-Jones Chain Equation of State for Liquid Metals

International Journal of Modern Physics E, 2006, Vol. 15, p1127-39, H.R. Moshfegh
Equation of State of Hot Nuclear and Neutron Matter: A Statistical Approach

Journal of Non-Crystalline Solids, 2006, Vol. 352, p3113-20, F. Sabzi, H. Eslami, and A. Boushehri
Modified Perturbed Hard-Sphere Equation of State for Alkali Metal Alloys

Journal of Non-Crystalline Solids, 2007, Vol. 353, p435-9, M.H. Mousazadeh
A Perturbed Lennard-Jones Chain Equation of State for Refractory Metals

Nashrieh Shimi Va Mohandesi Shimi Iran, 2007, Vol. 26, p95-101, E. Keshmirizadeh, H. Modares and A. Eliassi
A New Equation for Compressibility Factor of Binary Hard Sphere Mixtures with Large Size Ratio

Shock Wave Related Research

Thesis:

M.R. Pournaki, Thesis (M.S.), Sharif University, Tehran, Iran, 1996
The Existence and Behavior of Viscous Structure for Plane Detonation Waves

Y. Farjami, Thesis (PhD), 1998, Sharif University, Tehran, Iran, 1998
On the Structure of Shock Wave in a Planar Motion of Plasma

A. Ghaseminia, Thesis (M.S.), Emam Hossein University, 2001
The Comparison Study of Long-Rod Penetration Models in Semi-Infinite Targets

A. Aghajani, Thesis (PhD), Sharif University, Tehran, Iran, 2001
Detonation and Ionizing Shock Waves in Magnetohydrodynamics

A.Razani, Thesis (PhD), Sharif University, Tehran, Iran 2002
Mathematical Model of Existence of Detonation Waves in Combustion Gas

Conference Papers:

International Conference on Powder Shaping and Compaction, Cavendish, UK, 1987, A. Darvizeh and S.T.S. Al-Hassani
Shaping and Compaction of Powder by EDC

1st ISME Conference, Tehran, Iran, 1993, A. Darvizeh
Explosive Welding of Multi-Layered Composite

1st Conference on Ceramics, University of Science and Technology, Tehran, Iran, 1993,
A. Darvizeh and S.T.S. Al-Hassani
Forming Ceramic – Metal Composites by EDC Compaction Process

2nd Annual ISME Conference, Sharif University, Tehran, Iran, 1994, A. Darvizeh, M.
Darvizeh and C.B. Sharma
Explosive Powder Compaction

16th International Colloquium on the Dynamics of Explosions and Reactive Systems,
Poland, 1997, *K. Mazaheri and **J.H. Lee
Effect of Hot Spots on the Initiation of Detonations
*Department of Mechanical Engineering, Tarbiat Modarres University, Tehran, Iran
**Department of Mechanical Engineering, McGill University, Montreal, Canada

4th International Conference on Combustion and Energy Utilization, Bangkok, Thailand,
December 8-11, 1997, F. Rashidi and R. Rajabi
Temperature Roles in the Limits of Detonation Waves

3rd ISME Conference, University of Science and Technology, Tehran, Iran, May 18-21,
1999, A. Darvizeh and R.K. Rahimi
Prediction of Final State of Explosively Welded Components and Initial Parameters

Proceedings of the 31st Iranian Mathematics Conference, Tehran, Iran, 2000, M.
Hesaaraki and A. Razani
Travelling Waves for Weak and Strong Combustions

1st International Conference of the Iranian Aerospace Society, Sharif University, Tehran,
Iran, December 30, 2000 – January 1, 2001, A. Darvizeh, M. Darvizeh and A. Yadgary
Modelling of Explosive Cutting Process of Plates by Shaped Charges

5th International and 9th Annual Mechanical Engineering Conference, Guilan University,
Rasht, Iran, May 27-29, 2001, A. Darvizeh and M. Darvizeh
The Effect of Oxide Thickness on the High Rate EDC Compaction Process

18th International Colloquium on the Dynamics of Explosions and Reactive Systems,
Washington, 2001, *K. Mazaheri, *S. Hashemi and **J.H. Lee
Numerical Study of Detonation Instability for a Two-Step Kinetics Model
*Department of Mechanical Engineering, Tarbiat Modarres University, Tehran, Iran
**Department of Mechanical Engineering, McGill University, Montreal, Canada

International Conference of Mathematicians, Beijing, China, 2002, A. Razani
The Existence of CJ Detonation for a Single Step Chemical Reaction
Workshop on Differential Equation and its Application in Industry, Qazvin, Iran, 2003,
A. Razani
Shock Structure of Weak and Strong Detonations

12th Annual Conference of the CFD Society of Canada, Ottawa, Canada, 2004, H.R. Anabrlooie, K. Mazaheri and M. Bidabadi
ALE Simulation of Rayleigh-Taylor Instability

International Workshop on Nonlinear Partial Differential Equations, Institute for Studies in Theoretical Physics and Mathematics, Tehran, Iran, December 5-16, 2004, A. Razani
Detonation Waves in Gas Dynamics

12th Symposium on Electromagnetic Launch Technology, May 25-8, 2005, K. Daneshjou, A. Kochakinejad and M. Rahimzadeh
Numerical Study of Long Rods Penetration Depth in Semiinfinte Targets in Electromagnetic Launchers

Proceedings of the International Conference on Recent Advances in Mechanical and Materials Engineering, Kuala Lumpur, Malaysia, May 30-1, 2005, M. Farshchi, H. Mehrabian and A.R. Barkhordari
Two-Dimensional Linear Stability Analysis of Pathological Detonations

VIII International Conference on Computational Plasticity, Barcelona, Spain, 2005, A.A. Akbari Mousavi and G. Joodaki
Explosive Welding Simulation of Multilayer Tubes

1st International Confernece on Manufacturing Engineering, Tehran, Iran, 2005, M. Zohoor, A. Mehdipoor, M.R. Khalili and N. Parvin
Explosive Compaction of Tungsten Powder

Proceedings of the 2nd WSEAS International Conference on Applied and Theoretical Mechanics, venice, Italy, November 20-22, 2006, M. Zohoor, S.M.R. Khalili, N. parvin and A. Mehdipoor
Numerical Simulation and Experimental Study of Explosive Compaction of Tungsten Powder

Journal Articles:

International Communications in Heat and Mass Transfer, 1997, Vol. 24, p27-38, S.M. Hosseinalipour and A.S. Mujumdar
Flow and Thermal Characteristics of Steady Two Dimensional Confined Laminar Opposing Jets

Nonlinearity, 1998, Vol. 11, p797-821, Y. Farjami
Structure of Shock Waves in Planar Motion of Plasma

Engineering Analysis with Boundary Elements, 2000, Vol. 24, p249-57, P. Hosseini-Tehrani and M.R. Eslami
BEM Analysis of Thermal and Mechanical Shock in Two-Dimensional Finite Domain Considering Coupled Thermoelasticity

Bulletin of the Australian Mathematical Society, 2001, Vol. 63, p485-96, M. Hesaaraki and A. Razani
On the Existence of Chapman-Jouget Detonation Waves

Applicable Analysis, 2001, Vol. 77, p405-18, M. Hesaaraki and A. Razani
Detonative Travelling Waves for Combustion

International Journal of Engineering, 2002, Vol. 15, Part B, p213-22, *K. Mazaheri, *A. Mahdavi and **J.H. Lee

*Department of Mechanical Engineering, Tarbiat Modarres University, Tehran, Iran

**Department of Mechanical Engineering, McGill University, Montreal, Canada

Numerical Study of Blast Initiation of Detonations, Using a Two-Step Chemical Kinetics Model

Bulletin of the Australian Mathematical Society, 2002, Vol. 66, p393-403, A. Razani
Chapman-Jouget Detonation Profile for a Qualitative Model

Amirkabir, 2002, Vol. 13, p250-264, G. Liaghat, A. Darvizeh, A. Abd Elah and D. Javabvar

Analysis of Cone Forming Explosive of and a Comparison of Experimental FEM and Analytical Results

Modarres Technical and Engineering Journal, 2002, Vol. 6, p58-72, *K. Mazaheri and **J.H. Lee

*Department of Mechanical Engineering, Tarbiat Modarres University, Tehran, Iran

**Department of Mechanical Engineering, McGill University, Montreal, Canada

The Effect of Instability on the Direct Initiation of Detonation

Amirkabir, 2002, Vol. 13, p580-590, G. Liaghat, A. Darvizeh, A. Abd Elah and D. Javabvar

Effect of Blank Holder on the Control of Cone Wrinkling and Analytical – Experimental Study of it During Explosive Forming

Modelling and Simulation in Material Science Engineering, 2002, Vol. 10, p727-44, N. Nariman-Zadeh, A. Darizeh, M.E. Felezi and H. Gharababaei

Polynomial Modelling of Explosive Compaction Process of Metallic Powders Using GMHD-Type Neural Networks and Singular Value Decomposition

Journal of Mathematical and Analytical Applications, 2002, Vol. 276, 868-81, A. Razani
Weak and Strong Detonation Profiles for a Qualitative Model

International Journal of Engineering Science, 2002, Vol. 12, p1-24, G. Liaghat, A. Darvizeh, A. Abd Elah and D. Javabvar

Analysis of Cone Wrinkling during Explosive Forming with Comparison to Experimental Results

Bulletin of the Korean Chemical Society, 2003, Vol. 24, p19-22, M.H. Keshavarz and M. Oftadeh

Two New Correlations for Predicting Detonating Power of CHNO Explosives

Iranian Journal of Science and Technology, Transaction B: Engineering, 2003, Vol. 27, p551-562, N. Narimanzadeh, A. Darvizeh and H. Gharababaei

Modelling and Prediction of Process Parameters in Explosive Welding of Plates using GMDH-Type Neural Network and Singular Value Decomposition

Iranian Journal of Science and Technology, Transaction B: Engineering, 2003, Vol. 27, p563-72, H. Ahmadi Kia and E. Shirani

Diffraction of Moving Shock Waves over Stationary and Moving Bodies

Amrikabir, 2003, Vol. 14, p765-779, G. Liaghat, D. Javabvar, A. Darvizeh and A. Abd Elah

Analytical, Experimental and Numerical Study of Hoop Strain Profile and Required Charge Mass during Cone Explosive Forming

Journal of the Faculty of Engineering (University of Tehran), 2003, Vol. 37, p97-112, D. Javabvar, G. Liaghat, A. Darvizeh and A. Abd Elah

Analytical, Experimental and Numerical Study of Vertical Velocity and Vertical Displacement Profiles, Required Pressure and Final Product Dimensions during Cone Explosive Forming

Modarres Technical and Engineering, 2003, Vol. 12, p89-106, A. Darvizeh, G. Liaghat and M.D. Nouri

Numerical Simulation of High Rate Deformation of Tube in Explosive Welding Process

Materials Chemistry and Physics, 2003, Vol. 82, p78-83, A. Ghanadzadeh and A. Darviseh

Shock Loading Effect on the Corrosion Properties of Low-Carbon Steel

Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2003, Vol. 217, p779-90, N. Nariman-Zadeh, A. Darvizeh and G.R. Ahmad-Zadeh

Ahmad-Zadeh

Hybrid Genetic Design of GMHD-Type Neural Network using Singular Value Decomposition for Modelling and Prediction of the Explosive Cutting Process

International Journal of Engineering Science, 2004, Vol. 15, p33-43, A. Darvizeh, G. Liaghat and M.D. Nouri

Two Dimensional FE Simulation of High Rate Deformation of Tube in Explosive Welding Process

Scientica Iranica, 2004, Vol. 11, p37-49, M. Farshchi and S. Hossainpour

Simulation of Detonation Initiation in Straight and Baffled Channels

Scientia Iranica, 2004, Vol. 11, p292-301, *K. Mazaheri, *S.A. Hashemi and **J.H. Lee
*Department of Mechanical Engineering, Tarbiat Modarres University, Tehran, Iran
**Department of Mechanical Engineering, McGill University, Montreal, Canada
Numerical Study of Detonation Instability for a Two-Step Kinetics Model

Modarres Technical and Engineering Journal, 2004, Vol. 17, p11-20, H.R. Anbarlooei
and K. Mazaheri
Comparison of Steinberg and Johnson-Cook Constitutive Models in Simulation of Metals
Behavior in the Presence of Shock Waves

Chemical Engineering and Technology, 2004, Vol. 20, p571-5, M. Rashidi
Calculation of Equilibrium Composition in Combustion Products

Numerical Heat Transfer, Part B, 2004, Vol. 46, p497-504, M. Darbandi and V.
Mokarizadeh
A Modified Pressure-Based Algorithm to Solve Flow Fields with Shock and Expansion
Waves

Journal of Applied Sciences, 2004, Vol. 4, p110-7, H. Ahmadikia and E. Shirani
Numerical Simulation of Thermo-Chemical Non-Equilibrium Hypervelocity Flows

Journal of Mathematical and Analytical Applications, 2004, Vol. 293, 551-63, A. Razani
Existence of Chapman-Jouget Detonation for a Viscous Combustion Model

Journal of Hazardous Materials, 2005, Vol. A119, p25-9, M.H. Keshavarz
Simple Determination of Performance of Explosives Without using any Experimental
Data

Michigan Mathematical Journal, 2005, Vol. 53, p647-64, A. Aghajnai and A. Razani
Detonation Waves in a Transverse Magnetic Field

International Journal of Pressure Vessels and Piping, 2005, Vol. 82, p883-95, M. Mirzaei,
K. Maazaheri and H. Biglari
Analytical Modeling of the Elastic Structural Response of Tubes to Internal Detonation
Loading

Finite Elements in Analysis and Design, 2005, Vol. 41, p1289-1308, S. Mohammadiand
and A. Bebamzadeh
A Coupled Gas-Solid Interaction Model for FE/DE Simulation of Explosion

Journal of Material Processing Technology, 2005, Vol. 164-165, p1561-1571, N.
Narimanzadeh, A. Darvizeh, A. Jamili and A. Moeini
Evolutionary Design of Generalized Polynomial Neural Networks for Modelling and
Prediction of Explosive Forming Process

WIT Transactions of Modelling and Simulation, 2005, Vol. 41, S.S. Nourazar, S.M. Hosseini, A. Ramazani and H.R. Deghanpour
Comparison between the Navier-Stokes and the Boltzmann Equations for the Simulation of an Axially Symmetric Compressible Flow with Shock Wave using the Monte-Carlo Method

Journal of the Mechanics and Physics of Solids, 2005, Vol. 53, p2501-28, A.A. Mousaviand and S.T.S. Al-Hassani
Numerical and Experimental Studies of the Mechanism of the Wavy Interface Formations in Explosive/Impact Welding

Journal of Hazardous Materials, 2006, Vol. A131, p1-5, M.H. Keshavarz and A. Semnani
The Simplest Method for Calculating Energy Output and Gurney Velocity of Explosives

Iranian Journal of Energetic Materials, 2006, Vol. 1, p3-14, D. Javabvar
Determination of Required Charge Mass in the Explosive Forming of Plate by Impulse Method

Iranian Journal of Energetic Materials, 2006, Vol. 1, p15-21, D. Javabdar
Analysis of Explosive Cone Forming by Considering Product Wall Thickness Variation

Iranian Journal of Energetic Materials, 2006, Vol. 2, M. Zohour and A. Mehdipoor
Comparative Study of Tungsten Obtained through Powder Metallurgy Technique and Explosive Compaction Method

Journal of the Faculty of Engineering (University of Tehran), 2006, Vol. 39, p785-791, H. Eskandari, M. Emami, M. Ghasemi and S. Borji
The Study of Macrostructure and Interface in Aluminum/SiCp Composites Produced by Explosive Compaction Method

Eprint arXiv:astro-ph/0601480, 2006, M. Nejad-Asghar
Simulation of Shock Waves by Smoothed Particle Hydrodynamics

Journal of Hazardous Materials, 2006, Vol. B133, p129-34, M.H. Keshavarz and H.R. Nazari
A Simple Method to Assess Detonation Temperature Without using any Experimental Data and Computer Code

Mechanical and Aerospace Engineering Journal, 2006, Vol. 2, p11-19, D. javabvard and B. Habibpour
Analysis of Explosive Forming by an Energy Method

International Journal of Engineering Science, 2006, Vol. 17, p149-160, H. Bisadi, G. Lianghat, A. Darvizeh and M.H. Naeini
Analysis, Experimental Study of Explosive Welding and Forming of Inhomogenous Plates

Journal of the Chinese Institute of Engineers, 2006, Vol. 29, p145-51, M.H. Keshavarz and H.R. Pouretedal

Calculation of Detonation Pressures of Condensed CHNOF Explosives

Mechanical and Aerospace Engineering Journal, 2007, Vol. 3, p23-32, Omrani A.

Mahdipour, M. Zohour, S.M.R. Khalili and N. Parvin

Theoretical Analysis of Explosive Compaction of Tungsten Powder

Mechanical and Aerospace Engineering Journal, 2007, Vol. 3, p99-107, M. Darvizeh, A.

Darvizeh, A.R. Shaterzadeh and R. Ansari

Thermal Buckling Analysis of Moderately Thick Composite Cylindrical Shells under Axisymmetric Thermal Loading

Surveys in Mathematics and its Applications, 2007, Vol. 2, p59-89, A. Razani

Shock Waves in Gas Dynamics

Iranian Journal of Energetic Materials, 2007, Vol. 2, p59-69, H. Bisadi and M.H. Navaz

Theoretical and Numerical Analysis of Nonhomogenous Plates Affected by Explosive Forming

Metalurgia, 2007, Vol. 13, p197-202, M. Zohoor and A. Mehdipoor

Comparative Study on Particle Bonding of Tungsten Samples which were Produced by Powder Metallurgy Method and Underwater Explosive Compaction Technique

Applied Mathematics and Computation, 2007, Vol. 191, p560-70, A.E. Tabatabaei, E.

Shakour and M. Dehghan

Some Implicit Methods for the Numerical Solution of Burgers' Equation

Finite Elements in Analysis and Design, 2007, Vol. 43, p478-93, S. Mohammadiand and

A. Pooladi

Non-Uniform Isentropic Gas Flow Analysis of Explosion in Fractured Solid Media

Journal of Materials Processing Technology, 2007, Vol. 187-8, p512-6, S.A.A. Akbari

Mousavi, M. Riahiand and A. Hagh Parast

Experimental and Numerical Analyses of Explosive Free Forming

Materials and Design, 2008, Vol. 29, p1-19, S.A.A. Akbari Mousaviand and S.T.S. Al-Hassani

Finite Element Simulation of Explosively-Driven Plate Impact with Application to Explosive Welding

Journal of the Faculty of Engineering, 2008, Vol. 42, p97-106, G. Liaghat and Z.S. Azad

Analysis of Die Less Explosive Forming of Bimetallic Circular Plates using "Energy Conservation Law"

Astrophysics and Space Science, 2008, Vol. 313, p425-30, M. Nejad-Asghar, A.R. Khesali and J. Soltani
Artificial Viscosity in Simulation of Shock Waves by Smoothed Particle Hydrodynamics

Iranian Journal of Energetic Materials, 2008, Vol. 3, S.A.A. Akbari Mousavi, M. Nourozpour and A. Makki
Investigations on the Explosive Welding Interface of Al-5083/Al-1250/ Sea Steel Three Layer Composite

Iranian Journal of Energetic Materials, 2008, Vol. 4, D. Javabvar, A. Alavinia and R. Alipour
Investigation and Proffering a Suitable Numerical Method for Simulation of Non-Die Explosive Forming Problems

Iranian Journal of Energetic Materials, 2008, Vol. 4, H. Arabi and A. Mehdipoor
Effect of Heat Treatment on the Mechanical Properties of Steel-Brass Explosive Bonding

Journal of Materials Processing Technology, 2009, Vol. 209, p3542-3549, M. Alitavloi and A. Darvizeh
High Rate Electrical Discharge Compaction of Powders under Controlled Oxidation

Radiation Effects

Conference Papers:

Tenth Annual Review of Progress in Applied Computational Electromagnetics, Monterey, CA, 1994, R. Moini
Comparison between LEMP and NEMP Induced Overvoltages in 33 kV Overhead Distribution Lines

Proceedings of the Iranian Conference on Electrical Engineering, ICEE95, Iran, 1995, B. Kordi, R. Moini and A. Abedi
A Comparison between LEMP and NEMP Effects on an Overhead Line using Electric Field Integral Equation in Time Domain

Proceedings of the 10th Iranian Conference on Electrical Engineering, Tabriz, Iran, 2002, J. Jamali, R. Aghajafari, R. Moini and S.H.H. Sadeghi
Time-Domain Analysis of Large Electromagnetic Pulse Simulators
Proceedings of the 2002 International Symposium and Technical Exhibition on

Electromagnetic Compatability, China, 2002, J. Jamali, R. Aghajafari, R. Moini and S.H.H. Sadeghi
Time-Domain Analysis of Electromagnetic Field Distribution around a Small-Size EMP Simulator

IEEE Antennas and Propagation Society International Symposium, 2002, A. Foroozesh, M. Hakkak and E. Jedari

An Improved Configuration of Symmetrical two-Coaxial Feeder for Use in Short Electromagnetic Pulse Measurements

IEEE Antennas and Propagation Society International Symposium, 2002, A.R. Attari, K. Barkeshli, F. Ndagijimana and J. Dansou

Application of the Transmission Line Matrix Method to the Calculation of the Shielding Effectiveness for Metallic Enclosures

2003 IEEE International Conference on Field-Programmable Technology, December 15-17, 2003, G. Asadi, S.G. Miremadi, H.R. Zarandi and A. Ejlali

Fault Injection into SRAM-Based FPGAs for the Analysis of SEU Effects

2003 IEEE International Conference on Field-Programmable Technology, December 15-17, 2003, G. Asadi, S.G. Miremadi, H.R. Zarandi and A. Ejlali

Evaluation of Fault-Tolerant Designs Implemented on SRAM-Based FPGAs

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, A. Pazirandeh, P. Maleki, and D. Sardani

Induction Effect of an Electromagnetic Pulse on a Transmission Line

37th Annual IEEE/IFIP International Conference on Dependable Systems and Networks, 2007, Fazeli, Patooghy, S.G. Miremadi and A. Ejlali

Feedback Redundancy: A Power Efficient SEU-Tolerant Latch Design for Deep Sub-Micron Technology

13th International Conference on Fusion Energy Reactor Materials, Nice, France, December 10-13, 2007, F. Borlouri, F. Dini, S. Khorasani and R. Amrollahi

Simulation of Radiation Damage of Fusion Reactor Steel Chamber by 14MeV D-T Fusion Neutrons using Heavy Ions

Journal Articles:

Modarres Technical and Engineering Journal, 2002, Vol. 7, p77-94, J. Jamali, R. Aghajafari, R. Moini, and H. Sadeghi

Analysis of Large Electromagnetic Pulse Simulators Using the Electric Field Integral Equation Method in Time Domain

Journal of Military Medicine, 2005, Vol. 7, p69-74, M. Sagafinia, D.A. maghsoudi, N. Nafissi and H.A. Mohebi

Assessment of Pathogenic Effects of E-Bombs on Humans and Environment

Nuclear Explosion Related Research

Seismology:

Journal Articles:

Journal of the Earth and Space Physics, 2003, Vol. 29, p20-9, A. Javaherian, A. Sadidkhoy, M. Naggizadeh and M. Haghghi
Yield Estimation of Pakistan Nuclear Explosion of May 28, 1998

Journal of the Earth and Space Physics, 2004, Vol. 30, p45-54, Movahed Rastegar, A. Javaherian and A. Sadidkhooy
Yield Estimation of Semipalatinsk Nuclear Explosions by LG Phase on Seismographs of SRO, Mashad

Geosciences, 2004, Vol. 12, p32-9, M. Haghghi, M. Javaherian and A. Sadidkhoy
Yield Estimation of Semipalatinsk Nuclear Explosions Using P-Waves from SRO, Mashad

Journal of Science (University of Tehran), 2005, Vol. 30, p217-28, M. Naghizadeh, A. Javaherian and A. Sadidkhoy
Yield Estimation for Nuclear Explosions of Semipalatinsk Using Rayleigh Waves Recorded at SRO, Mashad

Nuclear Fallout:

Journal Articles:

Iranian Journal of Soil and Water Sciences, 2005, Vol. 19, p77-86, S. Shahoe and H. Khaledian
Relation of Cs-137 Fallout with Annual Precipitation in Northwestern Iran

Plasma Physics

Documents/Reports:

AEOI-3 Preliminary Design of Experiment ALVAND 1 and
Low Beta Plasma Source
A. Anvari, H. Azodi, etal. December 1975

Shiraz University Publication Center, 1995, M.R. Eskandari
Principle of Nuclear Fusion

Thesis:

D. Sardari, Thesis (M.S.), July 1990, Sharif University of Technology
X-Ray Tubes Study and Design

N. Shadanpour, Thesis (M.S.), September 1993
Description of Cyclotron-30 Particle Accelerator

K.E. Ranani, Thesis (M.S.), May 1996, Sharif University of Technology
Feasibility Study of Design and Fabrication of a Prototype X-Ray Tube

A.B. Khani, Thesis (M.S.), May 1996, Sharif University of Technology
Feasibility Study of Design and Fabrication of a Prototype X-Ray Tube

S.Z. Kalantari, Thesis (PhD), 1996, Shiraz University of Technology
Effect of Spin Polarization, Tritium Concentration and Sticking Coefficients on Fusion Dynamics

B. Shokri, Thesis (PhD), September 1997, Russian Academy of Sciences, General Physics Institute
Low-Frequency Oscillations and Relaxation Processes in Thin Film of Plasma-Like Media

A. Babazadeh, Thesis (M.S.), December 1997, Amir Kabir Technical University
Measurement of Plasma Density and Temperature in Damavand Tokamak by Laser Scattering (Thompson)

M. Motevalli, Thesis (M.S.), 2002, Guilan University
The Analytic Study of Effects of Density, Temperature and Tritium Concentration on Regeneration, Sticking and Muon Efficiency in Molecular Hydrogen and Plasma

E.B. Gavarti, Thesis (M.S.), 2003, Guilan University
The Investigation of Physical Parameters Effects and Tritium Concentration on Energy Gain in central Spark Ignition Fusion Method

M. Kamran, Thesis (M.S.), 2003, Guilan University
The Study of Fast Ignition Idea by Laser Beam, Accelerated Protons and Light Ions in Inertial Fusion

K.R.S. Nejad, Thesis (M.S.), 2003, Shiraz University
Muon Catalyzed Fusion Dynamics in Solid Heterogeneous H/D/T Mixture and its Comparison with Solid Homogeneous D/T System

N. Khoddam, Thesis (M.S.), 2004, Guilan University
The Study of Helium Accumulation Effect on Muon Catalyzed Fusion Kinetics in Deuterium-Tritium Mixtures

S. Khoshbinfar, Thesis (M.S.), 2005, Guilan University
The Study of Ignition Conditions and Energy Gain in Inertial Fusion Targets

M. Tabatabaei, Thesis (M.S.), 2005, Guilan University
The Analytical Method for Investigation of Fast Ignition Dynamics in Inertial
Confinement Fusion

Z. Parang, Thesis (M.S.), 2005, Islamic Azad University
Design and Installation of a Rogowski Coil for IR-T1 Tokamak

F.H. Rabi, Thesis (M.S.), 2005, Islamic Azad University
Radiation from Non-Magnetized Plasma in Laser Plasma Interaction

M. Mahdavi-Daronkola, Thesis (M.S.), 2005, Shiraz University
Calculation of Binding Energy for Muonic Molecules in the Hyper-Spherical Approach

M. Razavizade, Thesis (M.S.), 2007, Islamic Azad University
Design of HCN Laser Interferometer for IT-T1 Tokamak

Amin Soltanian, Thesis (M.S.), 2007, University of Urmia
Spin Polarization Effects on ^3He Fuel Pellets

Conference Papers:

IEEE International Conference on Plasma Science, Troy, New York, 1977, H. Azodi
Systematic End Loss Measurements on a Hot Linear Theta Pinch

IEEE International Conference on Plasma Science, Troy, New York, 1977, R. Aghevli
Construction of ALVAND-2 Diagnostic Tokamak

Proceedings of the Seventh International Conference on Plasma Physics and Controlled
Nuclear Fusion Research, Innsbruck, Austria, 1978, H. Azodi
End Plugging of a Hot Linear Theta Pinch

1989 International Conference on Plasma Physics, New Delhi, India, 1989, M.
Choranneviss
Stable Ion Beam Produced by RF Plasma

International Conference on Plasma Physics, ICPP, Innsbruck, Austria, June 29 – July 3,
1992, M. Ghrannevisse, M. Moradshahi and M. Avakian
Neutral Beam in ALVAND IIC Tokamak

Proceedings of the 1993 Particle Accelerator Conference, Washington, DC, 1993, H.
Ayvazian
A New Design for an EMIS-CYCLOTRON System, for Direct Production of Gaseous
PET Radioisotopes

Gathering of Physics Students, Ferdowsi University of Mashad, Iran, 1995, S.Z. Kalantari

Gain Calculation for the D-T in SCAT and CAT Modes with Bremsstrahlung Loss and Reheat Branches

Seventh International Conference on Emerging Nuclear Energy Systems, Chiba, Japan, 1995, M.R. Eskandari and S.Z. Kalanatri

Kinetics of D-T Fusion by ICF in SCAT and CAT Modes

Iranian Annual Physics Conference, Urmia University, Iran, 1995, S.Z. Kalantari and M.R. Eskandari

Neutron Production and Breeding of ^{239}Pu and ^3T in D-T and D- ^3He ICF

International Conference on Laser Interaction and Related Plasma Phenomena, Osaka, Japan, 1995, R. Khoda-Bakhsh

Effect of Fusion Reaction Products Heating on the Volume Ignition of DT and D ^3He Fuel Pellets

IAEA Technical Committee on Research Using Small Tokamaks, Ahmedabad, India, 1995, R. Amrollahi

DAMAVAND – An Iranian Tokamak with a Highly Elongated Plasma Cross-Section

European Physical Society Conference on Controlled Fusion and Plasma Physics, Kyiv, Ukraine, 1996, M. Ghoranneviss

Modification of Plasma Confinement Using Resonant Helical Field in IR-T1 Tokamak

European Physical Society Conference on Controlled Fusion and Plasma Physics, Kyiv, Ukraine, 1996, M. Ghoranneviss

SOFTX-Ray Tomography on IR-T1 Tokamak

1996 IEEE International Conference on Plasma Science, Boston, MA, 1996, M. Ghoranneviss

Plasma Confinement Improvement by RHF in IR-T1 Tokamak

1996 IEEE International Conference on Plasma Science, Boston, MA, 1996, M. Ghoranneviss

X-Ray Tomography on IR-T1 Tokamak

1996 IEEE International Conference on Plasma Science, Boston, MA, 1996, M. Ghoranneviss

Internal Disruptions and RHF in IR-T1 Tokamak

1996 IEEE International Conference on Plasma Science, Boston, MA, 1996, M. Ghoranneviss

Mirnov Oscillation Analysis in IR-T1 Tokamak

1996 IEEE International Conference on Plasma Science, Boston, MA, 1996, M. Ghoranneviss
The Impurity Transport Model in IR-T1 Tokamak

1996 IEEE International Conference on Plasma Science, Boston, MA, 1996, M. Ghoranneviss
Measurement of Edge Plasma Parameters in IR-T1 Tokamak by Double Langmuir Probe

International Conference on Plasma Physics and Controlled Nuclear Fusion, Montreal, Canada, 1996, R. Amrollahi and E. Farshi
On the Possible Model of Gamma-Bursts in the Plasma Pinches

Iranian Annual Physics Conference, 1996, H. Golnabi
Plasma Diagnostics of IR-T1 Tokamak

Iranian Annual Physics Conference, 1996, P. Khorshid and D. Dorrnian
Study of RHF and MHD Behavior by Local Electron Temperature of Plasma

International Conference on Plasma Physics and Controlled Nuclear Fusion, Montreal, Canada, 1996, R. Amrollahi
Modelling an RLC Circuit for the Investigation of Disruption Instabilities in Tokamaks

1997 IEEE Conference on Plasma Science, San Diego, CA, 1997, M. Ghoranneviss, M. Masnavi and D. Dorrnian
Single Channel HCN Laser Interferometer for Electron Density Measurement on the IR-T1 Tokamak

1997 IEEE Conference on Plasma Science, San Diego, CA, 1997, M. Ghoranneviss
Low-Z Impurity Visible Line Radiations in the IR-T1 Tokamak

1997 IEEE Conference on Plasma Science, San Diego, CA, 1997, M. Ghoranneviss
Design and Fabrication of New Version of Langmuir Double Circuit for the IR-T1 Tokamak

1997 IEEE Conference on Plasma Science, San Diego, CA, 1997, M. Ghoranneviss
Beta-Limiting in the IR-T1 Tokamak

1997 IEEE Conference on Plasma Science, San Diego, CA, 1997, M. Ghoranneviss
Engineering Aspects and Basic Parameters of the IR-T1 Tokamak

1997 IEEE Conference on Plasma Science, San Diego, CA, 1997, M. Ghoranneviss, M. Bakhtiary, M.R. Salami, A.K. Tafreshi, M.Z. Mehr, and J. Mirzaei
Sawtooth Oscillation in the IR-T1 Tokamak with Tomographic Reconstructions

23rd International Conference In Phenomena of Ionized Gases, Toulouse, France, July 17-22, 1997, M. Masnavi and D. Dorrnian
Plasma Light Impurity Source of Radiation in the Iran Tokamak 1

Iranian Annual Physics Conference, Guilan University, August 25-28, 1997, M. Masnavi and D. Dorrnian
Interpretation of Hard Disruption Instability of the Iran Tokamak 1

The First Iran and Azerbaijan Gathering on Applied Physics, Tabriz University, Tabriz, Iran, September 13-14, 1997, D. Dorrnian and M. Ghoranneviss
Controlled Nuclear Fusion in Tokamaks

1998 IEEE International Conference on Plasma Science, Raleigh, NC, 1998, M. Ghoranneviss
MHD Activity in Torus System and Helical Field

European Conference on Energy Dispersive X-Ray Spectroscopy, June 7-12, 1998, Bologna, Italy, M. Ghorannevis, H. Golnabi, M. Bakhtiari and P. Korshid
X-Ray Tomography Method for Plasma Diagnostic

Annual Iranian Physics Conference, Kerman, August 29 – September 1, 1998, A. Ghasemizad
The Design of a Meso-Catalytic Hybrid Fusion Reactor with Electronuclear Neutrons and Spin Polarization

Annual Iranian Physics Conference, Kerman, August 29 – September 1, 1998, M.R. Eskandari and S. Dailami
Stability Effects of D/T/H Fusion System Using Hurwitz Method

ITC-9. International Conference on Plasma Physics and Controlled Nuclear Fusion, Toki, Gifu, Japan, 1998, M. Ghoranneviss
Characteristics of Low-q Discharge in the IR-T1

First Seminar in Plasma Physics and Nuclear Fusion, October 14-5, 1998, Tehran, Iran, M. Ghorannevis and H. Golnabi
The Role of IR-T1 in Future Fusion Programs

First Seminar in Plasma Physics and Nuclear Fusion, October 14-5, 1998, Tehran, Iran, M. Ghorannevis and H. Golnabi
A Study of Laser Potentials for Magnetically Confined Plasma Diagnostics

Iranian Annual Physics Conference, Kerman, Iran, 1998, M.R. Eskandari and S. Dailami
Stability Studies of D/T/H Fusion Using Hurwitz Method

Iranian Annual Physics Conference, Kerman, Iran, 1998, M.R. Eskandari and M. Zahedifar
Energy Gain Evaluation of Fusion-Fission Reactions of Heavy Nucleus

ITCPP '99: International Topical Conference on Plasma Physics – New Frontiers of Nonlinear Science, Faro, Portugal, 1999, Hakimi Pajouh
Hydrodynamical Description of a Photon Gas in Magnetized Plasmas

Iranian Annual Physics Conference, Mazandaran University, Babolsar, Iran, August 29-31, 1999, D. Dorrnian, M. Bakhtiari and M. Ghoranneviss
Electron Temperature Profile in Iran Tokamak 1

Conference on the Applications of Physics and Nuclear Sciences in Medicine and Industry, Tehran, February 7, 2000, R. Amrollahi, F. Dini, and S. Khorasani
Elongated Plasma Equilibrium in Damavand Tokamak

European Conference on Energy Dispersive X-Ray Spectrometry, June 18-23, 2000, Krakow, Poland, H. Golnabi
X-Ray Diagnostics in Magnetically Confined Plasmas

Annual Physics Conference of Iran, Shahrood, August 27-31, 2000, M.A. Tafirshi, M. Farrahi, and E. Saeedzadeh
Presentation of the First Iranian Plasma Focus Facility

Annual Physics Conference of Iran, Shahrood, August 27-31, 2000, M.R. Eskandari, N.H. Motlagh, and A. Hataf
Studies on Muon Cycling Rates in Muon Catalyzed D-T Fusion Systems with Possible Four-Body Muonic Molecules Formation

IAEA Fusion Energy Conference, October 4-10, 2000, Sorrento, Italy, R. Amrollahi, H. Minoo, S. Khorasani, and F. Dini
Optimization of Tokamak Poloidal Field Configuration by Genetic Algorithms

Proceedings of the Asian Conference on X-Ray and Related Techniques in Research and Industry, ACXRI'2000, November 20-22, 2000, Kuala Lumpur, Malaysia, H. Golnabi
Application of X-Ray Methods in Plasma Diagnostics

International Toki Conference on Plasma Physics and Controlled Nuclear Fusion, Toki, Japan, December 5-8, 2000, A. Hojabri and M. Ghoranneviss
MHD Activity and Disruption in Low- $q(a)$ in Iran Tokamak (IR-T1)

International Toki Conference on Plasma Physics and Controlled Nuclear Fusion, Toki, Japan, December 5-8, 2000, *E. Farshi, **S. Goudarzi, ***R. Amrollahi, and ****K. Sato

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**Atomic Energy Organization Iran, Plasma Physics Department

***K-N Toosi University of Technology, Tehran

****Kyushu University, Research Institute for Applied Mechanics, Kasuga, Fukoka, Japan

Kinetic and Collision Process Effects on Magnetic Structures in Predisruption Phase of Tokamak Plasmas

International Toki Conference on Plasma Physics and Controlled Nuclear Fusion, Toki, Japan, December 5-8, 2000, M. Ghoranneviss, M. Masnavi, M. Kashani
Characteristics of Low-q Discharge in the IR-T1 (Iran-Tokammak-1)

International Toki Conference on Plasma Physics and Controlled Nuclear Fusion, Toki, Japan, December 5-8, 2000, M. Ghoranneviss, A. Hojabri, and D. Doranian
Poloidal Magnetic Field Fluctuations in Low-q(a) in Iran Tokamak 1

Annual Physics Conference of Iran, Sabzevar, August 27-30, 2001, A.R. Esfandyari and S. Khorram

Ion-Acoustic Solitons in a Plasma with Electron Beam

PLASMA-2001 – International Symposium on Research and Applications of Plasma, Warsaw, Poland, September 19-22, 2001, A.R. Babazadeh, H. Habibi, A. Nasiry, M.V. Roshan, and S.M. Sadat Kiai

Experimental Study of X-Ray Radiation Yield in a Filippov-Type Plasma Focus Operated in Neon and Neon Krypton Mixture

PLASMA-2001 – International Symposium on Research and Applications of Plasma, Warsaw, Poland, September 19-22, 2001, S. Jhorasani, R. Amrollahi and F. Dini
Simulation of Breakdown in Three-Electrode Sparkgaps

ICTP Autumn College on Plasma Physics, Trieste, Italy, 2001, F. Dini, S. Khorasani and R. Amrollahi

Variational Finite Element Method for Axisymmetric Magnetohydrodynamic Equilibrium

8th Scientific-Research Conference of Guilan University, Rasht, Iran, 2002, A. Ghasemizad

The Study of Energy Gain in a Laser Fusion System and the Effects of Different Parameters on it

Meeting of Nuclear Physicists and Experts of Iran, February 20-1, 2002, S.M. Sadat Kiai, M. Lamahi, M. Emami, M.V. Roshan, A. Nasiry, H. Habibi, M. Memarzadeh, A. Banoushi, S. Goudarzi, and A.R. Babazadeh
The Effect of Gas Admixture on the Enhancement of X-Ray Emission in Dena Plasma Focus

Meeting of Nuclear Physicists and Experts of Iran, February 20-1, 2002, M. Emami, S. Sadat Kiai, A.R. Babazadeh, M. Roshan, A. Banoushi, S. Goudarzi, K. Asgari, M. Memarzadeh, H. Habibi and A. Nasiry
PID Control in Damavand Tokamak

29th EPS Conference on Plasma Physics and Controlled Fusion, Montreux, June 17- 21, 2002, S. Khorasani, F. Dini, and R. Amrollahi
New Algorithm for Time-Domain Simulation of Neo-Classical Transport

29th EPS Conference on Plasma Physics and Controlled Fusion, Montreux, June 17- 21, 2002, S. Khorasani, F. Dini, H. Minoo, and R. Amrollahi
Radiation Spectrum of Imploding Target

29th EPS Conference on Plasma Physics and Controlled Fusion, Montreux, June 17- 21, 2002, A.R. Babazadeh, S.M. Sadat Kiai, M. Emami, and M.V. Roshan
The Effect of Insert Anode Shape on the Characteristics of Neutron Emission in a Filippov-Type Plasma Focus

Technical Committee Meeting on Research using Small Fusion, Devices, Sao Paulo, Brazil, June 25–27, 2002, A.R. Babazadeh, A. Banoushi, M.V. Roshian, H. Habibi, A. Nasiry, M. Memarzadeh, M. Lamahi, and S.M. Sadat Kiai
X-Ray and Neutron Emission Studies in a New Filippov Type Plasma Focus

Technical Committee Meeting on Research using Small Fusion, Devices, Sao Paulo, Brazil, June 25–27, 2002, M. Emami, A.R. Babazadeh, M.V. Roshan, M. Memarzadeh, and H. Habibi
Digital Control of Plasma Position in Damavand Tokamak

IAEA Fusion Energy Conference, October 14-9, 2002, Lyon, France, *P. Khorshid, **L. Wang, and *M. Ghorannevis

*Islamic Azad University, Plasma Physics Research Centre, Tehran

**Chinese Academy of Sciences, Institute of Physics, Beijing, China

Limiting Biasing Effects on the Magnetohydrodynamic Behavior of the CT-6B Tokamak

IAEA Fusion Energy Conference, October 14-9, 2002, Lyon, France, *P. Khorshid, **L. Wang, ***M. Ghorannevis, **X.Z. Yang, and **C.H. Feng
*Department of Physics, Islamic Azad University, Mashhad, Iran
**Chinese Academy of Sciences, Institute of Physics, Beijing, China
***Islamic Azad University, Plasma Physics Research Centre, Tehran
Effects of Viscosity on Magnetohydrodynamic Behavior during Limiter Biasing on the CT-6B Tokamak

IAEA Fusion Energy Conference, October 14-9, 2002, Lyon, France, S. Khorasani, H. Minoo, and R. Amrollahi
On the X-Ray Radiation of Imploding Target

First IPM International Workshop on Plasma Dynamics, December 15-20, 2002, Qeshm, Iran, R. Amrollahi, S. Goudarzi, A.R. Babazadeh and N. Morshedean
Study of Anisotropy Factor of Neutron Emission in DENA Plasma Focus

Physics Conference, 2002, Zanjan, Iran, S.M. Sadat Kiai, M. Emami, M.V. Roshan, M.M. Darian and A.R. Babazadeh
Investigation of Krypton Admixture Effect Added to the Deuterium on the X-Ray and Neutron Emission in Dena Plasma Focus

10th Iranian Conference on Photonics, 2003, M.H. Mahdiah
Scale Length Effects on High Power Laser Pulse Absorption in Dense Plasma

Sixth International Conference on Computer Based Learning in Science, Cyprus, July 5-10, 2003, M.R. Eskandari
Solving Nonlinear Dynamical Equations of Fusion Systems Using RUNG – KUTTA 45 and LSODE Computer Codes

30th EPS Conference on Controlled Fusion and Plasma Physics, St. Petersburg, Russia, July 7-11, 2003, S. Khorasani and R. Amrollahi
Differential Transfer Matrix Analysis of Electromagnetic Waves in Non-Homogenous Magnetized Plasmas

Annual Physics Conference of Iran, August 25-8, 2003, M. Mahmoodi Darian, M. Ghorannevis and M.K. Salem
Calculation of Z_{eff} with Energy Balance Equation in IR-TI Tokamak

Annual Physics Conference of Iran, August 25-8, 2003, A.H. Sari, M. Ghorannevis, M.R. Hantehzadeh and M.R. Yousefi
Fabrication and Description of a Cold Cathode Electron Gun

Annual Physics Conference of Iran, August 25-8, 2003, V. Siahpoush, C. Khorram, S. Sobhanian, and A.M. Hamzeh-Fafreshi
Determination of the Optimum Pressure for Neutron Yield with D₂ in the PF Facility: DENA

Annual Physics Conference of Iran, August 25-8, 2003, M.D. Mahmoodi, M. Lamehi, T. Talebi, M.A. Memarzadeh
The Contamination Effect of Tokamak Walls on the Production of Runaway Electrons

Annual Physics Conference of Iran, August 25-8, 2003, R. Khoda-Bakhsh
Thermonuclear Burn Performance of Volume-Ignited Hydrogen-Boron(11) Pellets

Annual Physics Conference of Iran, August 25-8, 2003, M.R. Eskandari and M. Mahdavi
Wolfenstein-Gershtein Effect in Solid H/D

First Cairo Conference on Plasma Physics and Applications, October 11-15, 2003, Cairo, Egypt, R. Amrollahi and M. Farrahi
Plasma Focus Research and Development in Iran

4th General Scientific Assembly of the Asian Plasma and Fusion Association on New Developments of Plasma Physics and Fusion Technology, October 13-6, 2003, Hangzhou, China, M. Borghei and J. Mahdavi
Study of Special Behavior of Plasma in a New Design Current Interruptor

4th General Scientific Assembly of the Asian Plasma and Fusion Association on New Developments of Plasma Physics and Fusion Technology, October 13-6, 2003, Hangzhou, China, R. Amrollahi and M. Farrahi
A Study on Plasma-Material Interaction in Plasma Focus Device

4th General Scientific Assembly of the Asian Plasma and Fusion Association on New Developments of Plasma Physics and Fusion Technology, October 13-6, 2003, Hangzhou, China, *P. Khorshid, ***A.H. Sari, **Long Wang, and ***M. Ghorannevis
*Physics Department, Islamic Azad University, Mashhad, Iran
**Institute of Physics, Chinese Academy of Sciences, Beijing, China
***Plasma Physics Research Center, Islamic Azad University, Tehran
Investigation of Tokamak Plasmas as Non-Rigid Body Plasma

International Conference on Physics, January 6-9, 2004, Amirkabir Univeristy of Technology, Tehran, Iran, Z. Emami
A Special Survey on Plasma Diagnostics in Tokamaks by Electromagnetic Waves

International Conference on Physics, January 6-9, 2004, Amirkabir Univeristy of Technology, Tehran, Iran, D. Sardari
Selection of Anode-Cathode Distance in X-Ray Tube Manufacturing

International Conference on Physics, January 6-9, 2004, Amirkabir Univeristy of Technology, Tehran, Iran, B. Farokhi and F. Jafarppor
Particle Simulation Code for Charge Variable Dusty Plasmas

International Conference on Physics, January 6-9, 2004, Amirkabir University of Technology, Tehran, Iran, Z. Emami
A Special Survey on Plasma Diagnostic in Tokamaks by Electromagnetic Waves

International Conference on Physics, January 6-9, 2004, Amirkabir University of Technology, Tehran, Iran, S. Sobhanian, S. Khorram, and L. Nouri
An Equation for Temporal Charge Fluctuations of Dust Particles in a Plasma

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, M. Moradshahi, M. Avakian, A.A. Dabrizadeh, and S. Shayegan
Ion Sources in Center Fusion Atomic Energy Organization of Iran

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, M. Emami, H. Rasouli, N. Morshedian, and V. Razazi
Controlled Plasma in the Damavand Tokamak

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, V. Siahpoush, M.A. Mohammadi, S. Khorram, I. Shababi, J. Borhanian, S. Ashrafi, H. Naghsara, M. Moslehi-Fard, and S. Sobhanian
Preliminary Results of Neutron Production of Sahand Plasma Focus Device

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, A. Ghasemizad and M. Karman
Calculation on Fuel Gain in Isochoric Central Spark Ignition Model of Internal Fusion

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, Z. Emami
A Special Survey on Plasma Diagnostic in Tokamaks by Electromagnetic Waves

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, S.B. Sabzevari and N.N. Mofakham
The Energy Transmission Coefficient for a Two Dimensional Inhomogeneous Plasma

5th International Conference on Nuclear Option in Countries with Small and Medium Electricity Grids, Dubronik, Croatia, May 16-20, 2004, A. Ghasemi-Zad and S. Khoshbin-Far
The Central Spark Ignition, A Way Towards Clean Fuels in Nuclear Energy and Environment

Fourth International Workshop and School, Towards Fusion Energy – Plasma Physics, Diagnostics, Applications, Kudowa Zdroj, Poland, June 7-13, 2004, M.V. Roshan
Plasma Materials' Interaction Studies in Plasma Focus Devices

31st EPS Conference on Plasma Physics, London, UK, June 28 – July 2, 2004, H.R. Yousefi, G.R. Etaati and M. Ghorannevis
Insulator Length Effects in Mather-Type Plasma Focus Device

31st EPS Conference on Plasma Physics, London, UK, June 28 – July 2, 2004, A. R. Babazadeh, S.M. Sadat Kiai and M. V. Roshan
Effect of Sparkgap Breakdown and Current Buildup Speed on Fillipov-Type Plasma Focus Experiments

31st EPS Conference on Plasma Physics, London, UK, June 28 – July 2, 2004, H. Alireza, M. Ghoranneviss and F. Hajakbari
Magnetohydrodynamic Instabilities in Iran-Tokamak 1 (IR-T1)

31st EPS Conference on Plasma Physics, London, UK, June 28 – July 2, 2004, *D. Dorrnian, **M. Starodubtsev, ***H. Ito, ***N. Yugami, ***Y. Nishida and *M. Ghorannevis
*Plasma Physics Research Institute, Islamic Azad University, Iran
**Institute of Applied Physics, Russian Academy of Sciences, Nizhny Novgorod, Russia
***Energy and Enviromental Science, Utsunomiya University, Japan
Generation of Short Pulse Radiation from Magnetized Wake in Gas Jet Plasma-Laser Interaction

31st EPS Conference on Plasma Physics, London, UK, June 28 – July 2, 2004, *A.H. Sari, *M. Ghorannevis, *H. Hora, R. Hopfl, *M.R. Hantehzadeh and F. Osman
*Plasma Physics Research Center, Islamic Azad University, Tehran, Iran
**Department of Theoretical Physics, University of New South Wales, Sydney, Australia
***Faculty of Electrical Engineering, Univeristy of Applied Science, Deggendorf, Germany
****School of Quantitative Methods and Mathematics, University of Western Sydney, Penrith, Australia
Concave Cold Cathode Electron Gun using Obstructed Discharge

ICOPS 2004, June 28 – July 1, 2004, P. Khorshid, L. Wang, X.Z. Yang, and C.H. Feng
Dependence of Edge Flutuations on the Disruption in Tokamak Plasmas

12th International Congress on Plasma Physics, October 25-9, 2004, Nice, France, A. Hojabri, M. Ghoranneviss, and F. Hajakbari
MHD Precursor to Disruption in Iran Tokamak 1

12th International Congress on Plasma Physics, October 25-9, 2004, Nice, France, A. Ghasemizad and M. Kamran
The Concept of Isochoric Central Spark Ignition and its Fuel Gain in Inertial Fusion

XXXII Conference on Plasma Phycis and CF, Zvenigorod, Russia, February 14-8, 2005, *I.N. Kartashov, *M.V. Kuzelev and **N. Spehri Javan
*Moscow State University, Moscow, Russia
**Zanjan University, Zanjan, Iran
On Theory of Oscillator of Contrary Wave with Relativistic Beam in Electrostatic Field of Pumping

The 11th National Conference of Physicists and Nuclear Science Specialists, 2005,
Bushehr Nuclear Power Plant, Bushehr, Iran, A. Ghasemizad and M. Kamran
The Calculation of Accelerated Proton Beams in D-T Dense Plasma in Inertial Fusion
Method

Proceedings of the Annual Physics Conference of Iran, February 22-23, 2005, Ferdowsi
University, Mashhad, Iran, S.Z. Kalantari and M. Raeisi
Simulation of Cascade Processes of Muonic Atoms in D/T Mixtures by Monte Carlo
Methods

32nd EPS Conference on Plasma Physics, Tarragona, June 27 – July 1, 2005, A. Hojabri,
M. Ghoranneviss, F. Hajakbari, K. Salem, and P. Khorshid
Effect of Rotating Magnetic Helical Field on the Impurity Radiation and the Magnetic
Island in Iran Tokamak 1 (IR-T1)

32nd EPS Conference on Plasma Physics, Tarragona, June 27 – July 1, 2005, M.K. Salem,
M.M. Darian, M. Ghoranneviss, P. Khorshid, A. Hojabri, R. Arvin, and A. Talebi Taher
The Influence of Resonance Helical Field on the Z_{eff} in IR-T1 Tokamak

32nd EPS Conference on Plasma Physics, Tarragona, June 27 – July 1, 2005, A.R.
Babazadeh and S.M. Sadat Kiai
Study of Gas Admixture Influences on the Pinch Dynamic in a 90 kJ Filippov Type
Plasma Focus

International Conference on Nuclear Energy for New Europe, Portoroz, Slovenia,
September 5-8, 2005, A. Ghasemizad, S. Khoshbinfar and A. Rubbers
The Method of Self-Similar Solution for Energy Gain Scaling in ICF Targets

PLASMA-2005: International Conference on Research and Applications of Plasmas,
Opole Univeristy, Poland, September 6-9, 2005, M.K. Salem, M. Ghoranneviss, and M.
Borghei
Effect of Resonant Helical Field on Electron Thermal Conductivity Behavior in IR-T1
Tokamak

PLASMA-2005: International Conference on Research and Applications of Plasmas,
Opole Univeristy, Poland, September 6-9, 2005, *H. Ghomi, **H. Taniguchi, **Y.
Hayashi, *M. Ghorannevis, and **E. Hotta
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**Department of Energy Sciences, Tokyo Institute of Technology
Influence of an External Circuit on the Pinch Time in Argon-Filled Capillary Z-Pinch

International Conference on Superstrong Fields in Plasmas, Varenna, Italy, September
19-24, 2005, M.H. Mahdieh and M. Sirmahi
Optical Absorption of Ultra-Short Laser Pulse in Multilayer Dense Plasmas

5th Conference on Nuclear and Particle Physics, Cairo, Egypt, November 19-23, 2005, M. Harzchi, H. Farid Yousefi and N. Alinejad

Simulation of Bootstrap Current by Hirshman Collisionless Model in Damavand Tokamak

16th IAEA Technical Meeting on Research using Small Fusion Devices, Mexico City, Mexico, November 30 – December 2, 2005, D. Dorrnian, M. Ghoranneviss, M.K.

Salem, M.M. Darian, R. Arvin, A. Talebitaher and A. Abhari
Recent Results of IR-T1 Tokamak

Nuclear Conference of Iran, 2006, Mashhad University, Mashhad, Iran, A. Ghasemizad and S. Khoshbinfar

The Determining of Optimum Confinement Time for Fast Ignition in Inertial Confinement Fusion

Nuclear Conference of Iran, 2006, Mashhad University, Mashhad, Iran, A. Ghasemizad, M. Shahryari and S. Pooiandeh

The Analytical and Numerical Investigation of Burnup Process for Inertial Confinement Fusion Targets

Nuclear Conference of Iran, 2006, Mashhad University, Mashhad, Iran, A. Ghasemizad, M. Mahdavi and S.M. Motevalli

The Calculation of Intensity of X-Ray Transitions for Muonic Helium Ion in D-T Fusion Cycle

Third International Conference on Superstrong Fields in Plasmas, April 7, 2006, M.H. Mahdieh and M. Shirmahi

Optical Absorption of Ultra-Short Laser Pulse in Multilayer Dense Plasmas

Proceedings of the Annual Physics Conference of Iran, August 28-31, 2006, Shahrood University, Shahrood, Iran, S.Z. Kalantari and M. Raeisi

Calculation of Relative X-Ray Yields in Cascade Processes of Muonic Deuterium Atoms by Monte Carlo Method

Nuclear Energy for New Europe, September 18-21, 2006, Portoroz, Slovenia, A. Ghasemizad and S. Khoshbinfar

Energy Scaling of Inertial Confinement Fusion Targets

International Conference on Nuclear Energy for New Europe, Portoroz, Slovenia, September 18-21, 2006, A. Ghasemizad and S. Khoshbinfar

Energy Scaling of Inertial Confinement Fusion Targets

International Conference on Nuclear Energy for New Europe, Portoroz, Slovenia, September 18-21, 2006, A. Ghasemizad and M. Tabatabai

The Investigation of High Energy Gain Conditions for Fast Ignition in ICF

International Conference on Ultra Intense Laser Interaction Sciences, 2007, Bordeaux, France, R. Fazeli, M. Shirmahi, M.H. Mahdieh and G. Talents
X-Ray Yield Enhancement from Metal Nano-Targets Irradiated by Long Pulsed Laser

Nuclear Conference of Iran, Isfahan University, Isfahan, Iran, 2007, S. Pourhosseini and A. Ghasemizad
The Analytical Study of Indirect Drive Energy in Inertial Confinement Fusion

Nuclear Conference of Iran, Isfahan University, Isfahan, Iran, 2007, V. Taherkhaani, A. Ghasemizad and G. Raeisali
The Energy Gain of Thin Targets in Inertial Confinement Fusion

International Conference on Muon Catalyzed Fusion and Related Topics (MCF-07), Dubna, Russia, June 18-21, 2007, S.Z. Kalantari and M. Raeisi
Study of the Strong Interaction by Calculation of the K Series Yields in Cascade processes of Kaonic Hydrogen Atoms

International Conference on Muon Catalyzed Fusion and Related Topics (MCF-07), Dubna, Russia, June 18-21, 2007, S.Z. Kalantari and M. Raeisi
Calculation of Muonic Atom Cascade Dynamics in D-T Mixtures

34th EPS Conference on Plasma Physics, Warsaw, Poland, July 2-6, 2007, P. Zobdeh, R. Sadighi-Bonabi and H. Afarideh
An Analytical Model of Plasma Cavity for Producing of Quasi-Monoenergetic Electron in Intense Laser-Plasma Interaction

17th IAEA Technical Meeting on Research using Small Fusion Devices, Portugal, 2007, P. Khorshid, M. Ghoranneviss, M. Razavi, M. Molaii, A. TalebiTaher, R. Arvin, S. Mohammadi and A. NikMohammadi
Designing a New-Function Coil for Measurement of Plasma Displacement in IR-T1 Tokamak

17th IAEA Technical Meeting on Research using Small Fusion Devices, Portugal, 2007, A. Tabeti Taher, K. Tarkeshian, M. Ghoranneviss, M.K. Salemi, P. Khorshid, M. Jafarzadeh, A. NikMohammadi and S. Mohammadi
Design and Fabrication of a New Feedback for Control of Plasma Column Horizontal Displacement in IR-T1 Tokamak

International Conference on Nuclear Energy for New Europe, Portoroz, Slovenia, September 10-3, 2007, A. Ghasemizad and S. Khoshbinfar
Ignitable Island of Spark Parameters in Inertial Confinement Fusion

Nuclear Physics Conference, Yazd University, Yazd, Iran, 2008, L. Mollasoltani, M. Shahriari, A. Ghasemizad and H. Faghigi
The Calculation of Power Sensitivity of SAD Subcritical System for Radius Variations of Spallation Target

Nuclear Physics Conference, Yazd University, Yazd, Iran, 2008, S. Pourhosseini and A. Ghasemizad

The Investigation of Physical Parameters for Isochoric and Isobaric Models of Central Spark Ignition Idea in Inertial Confinement Fusion

Nuclear Physics Conference, Yazd University, Yazd, Iran, 2008, H. Zarringhalam and A. Ghasemizad

Hydrodynamic Instabilities in Inertial Confinement Fusion

18th IAEA Technical Meeting on Research using Small Fusion Devices, Ukraine, 2008, S. Mohammadi, M. Ghoranneviss, M.K. Salem, R. Arvin and M. Gheydi
Comparing Plasma Parameters With and Without Feedback Control System in IR-T1 Tokamak

18th IAEA Technical Meeting on Research using Small Fusion Devices, Ukraine, 2008, M. Ghasemloo, M. Ghoranneviss and R. Shariatzadeh
Design and Fabrication of a 2-D Array Magnetic Probe for Measurement of Magnetic Fields in the IR-T1 Tokamak

Proceedings of the 14th ICPP, Fukouka, Japan, 2008, M. Azizi, M. Ghoranneviss, S. Mehranfar, B. Malekynia and R. Shariatzadeh
Analysis of Langmuir Probe for Measurement of Plasma Edge Electron Temperature and Density in IR-T1 Tokamak

ENOC-2008, June 30 – July 4, 2008, Saint Petersburg, Russia, Ahmad Reza Sohrabi and Syed Masoud Jazayeri
On the Destruction of Islands of Stability in a Tokamak with Ergodic Magnetic Limiter using KAM Theory

Proceedings of the 14th ICPP, Fukouka, Japan, 2008, A. Ghasemizadeh, H. Zarringhalam and L. Gholamzadeh
The Investigation of Rayleigh-Taylor Instability Growth Rate in Inertial Confinement Fusion

Proceedings of the 14th ICPP, Fukouka, Japan, 2008, R. Shariatzadeh, M. Ghoranneviss, M. Emami, P. Khorshid and M.K. Salem
Design and Fabrication of a Movable Langmuir Probe for Plasma Edge Parameters Measurement in the IR-T1 Tokamak

Proceedings of the 14th ICPP, Fukouka, Japan, 2008, N. Bolouli, M. Ghoranneviss, S.H. Mortazavi and A.H. Sari
Effect of Cathode Materials and Gas Species on Electron Beam Performance in a Plasma Cold Cathode Electron Source

Proceedings of the 14th ICPP, Fukouka, Japan, 2008, A. Salarelahi, A. Rahimirad, M. Ghoranneviss, M. Emami, S. Vahedi, M.K. Salem, R. Arvin and S. Mohammadi
Comparative Measurements of Plasma Position using Magnetic Probes and Camera in IR-T1 Tokamak

30th European Conference on Laser Interaction with Matter, Germany, 2008, *N. Azizi, *B. Malekynia, *M. Ghoranneviss, **H. Hora and ***G.H. Miley
*Plasma Research Center, Science and Engineering Research Campus of Islamic Azad University, Tehran
**Department of Theoretical Physics, University of New South Wales, Sydney, Australia
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Updated Threshold for Laser Driven Block Ignition of Neutron Lean Fusion Energy

30th European Conference on Laser Interaction with Matter, Germany, 2008, *B. Malekynia, *M. Ghoranneviss, **H. Hora and G.H. Miley
*Plasma Research Center, Science and Engineering Research Campus of Islamic Azad University, Tehran
**Department of Theoretical Physics, University of New South Wales, Sydney, Australia
***Department of Nuclear, Plasma and Radiological Engineering, University of Illinois, Urbana, Illinois
Collective Alpha Particle Stopping for Reduction of the Threshold for Laser Fusion using Nonlinear Force Driven Plasma Blocks

22nd IAEA Fusion Energy Conference, October 13-18, 2008, Geneva, *H. Hora, **Y. Cang, **F. Osman, ***B. Malekynia, ***M. Ghorannevis, ****G. Miley and *****X. He
*Department of Theoretical Physics, University of New South Wales, Sydney, Australia
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*****Institute of Applied Physics and Computational Mathematics, Beijing, China
Modification of the Bobin-Chu Fusion Threshold for Laser Driven Block Ignition or for Spark Ignition

Interaction of Intense Energy Fluxes with Matter, March 1-6, 2009, Elbrus, Kabardino-Balkaria, Russia, *M. Kouhi, **M. Ghoraneviss, ***H. Hora, **B. Malekynia and **N. Azizi
*IAU, Tabriz University, Tabriz, Iran
**IAU, PPRC, Tehran, Iran
***UNSW, Sydney, Australia
Alpha Particle Energy Absorption in Uncompressed DT for Laser Driven Fusion

Interaction of Intense Energy Fluxes with Matter, March 1-6, 2009, Elbrus, Kabardino-Balkaria, Russia, *N. Azizi, **B. Malekynia, ***H. Hora, ****G.H. Miley, **M. Ghorannevis and *****X. He

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**** Department of Nuclear, Plasma and Radiological Engineering, University of Illinois, Urbana, Illinois

*****Institute of Applied Physics and Computational Mathematics, Beijing, China

Laser Nonlinear Force Driven Fusion Energy from HB(11) by Block Ignition

4th International Conference on the Frontiers of Plasma Physics and Technology, April 6-10, 2009, Kathmandu, India, R. Sadighi-Bonabi

KrF Eximer Laser Generation of Plasma Blocks Accelerated by Nonlinear Forces for Fast Ignition

4th International Conference on the Frontiers of Plasma Physics and Technology, April 6-10, 2009, Kathmandu, India, M.H. Mahdieh, M. Nikbakht, F. Rezaee and M. Sobhani

Hydrodynamics of Laser Produced Ablation in Metal Thin Film Target by using Optical Opacity Measurement

4th International Conference on the Frontiers of Plasma Physics and Technology, April 6-10, 2009, Kathmandu, India, M.H. Mahdieh, M. Nikbakht and M. Samipour

Two Dimensional Determination of Shock Wave Velocity in Atmospheric Air Produced by Nanosecond Pulses

4th International Conference on the Frontiers of Plasma Physics and Technology, April 6-10, 2009, Kathmandu, India, Z. Reiazei, R. Sadighi-Bonabi, R. Rezaei-Nasirbad, S.K. Sadighi and H. Hora

Problems Related to the Ultra Intense Ion Beams Blocks Generated by Relativistic Laser Pulses

4th International Conference on the Frontiers of Plasma Physics and Technology, April 6-10, 2009, Kathmandu, India, E. Yazdani, H. Hora and R. Sadighi-Bonabi

Laser Generation of Directed Plasma Blocks Accelerated by Nonlinear Forces

Journal Articles:

Nuclear Research, 1978, Vol. 3, p2-18, A. Torabi-Fard, M. Farahani, M. Ebrani, R. Rostami and F. Daghighian

Performance of ALVAND 1 Capacitor Bank

Applied Physics B, 1982, Vol. 29, p186-8, *S.M. Hamadani, *F. Soltanmoradi, *M.H. Marvasti, *F. Maddah, *H. Frasad, *K. Atighechi, *A.A. Yaraghchi, **Y. Kato, **K. Mina, ***I. Ursu, ***I. Apostol, ***D. Barbulescu, ***M. Dinescu, ***I.N. Mihailescu, ***M. Stoica, ***A.M. Prokhorov, ***V.P. Ageev, ***V.I. Konov and ***V.N.

Tokarev

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***P.N. Lebedev Physical Institute, Academy of Sciences, Moscow

Laser Plasmas

International Journal of Infrared and Millimeter Waves, 1993, Vol. 14, p17-22, M.

Ghorannvise and M. Avakian

Interferometry Measurement of Line Average Electron Density in ALVAND IIC

Tokamak

Journal of Nuclear Materials, 1983, Vol. 113, p25-32, R. Alani

Material Testing in a Linear Theta Pinch

Fusion Technology, 1993, Vol. 24, p28-36, R. Khoda-Bakhsh

Effect of D-D Reactions on the Volume Ignition of Laser-Driven D-³He Fusion Pellets

Science Journal of Islamic Azad University, 1993, Vol. 3, D. Dorrnian, M. Jalilian and

M. Ghoranneviss

Fusion Step by Step

Nuclear Instruments and Methods in Physics Research, Section A, 1993, Vol. A330,

p268-75, R. Khoda-Bakhsh

Volume Ignition of DT Microspheres

Work done at the Department of Theoretical Physics, University of New South Wales, Kensington, Australia, returned to Department of Physics, University of Urmia, Iran

Nuclear Science Journal, 1994, Vol. 31, p247-53, M.R. Eskandari

Muon-Catalyzed Hybrid Reactor under Compression and Heat Conditions

Physics of Plasmas, 1994, Vol. 1, p3181-8, B. Maraghechi

High-Frequency Waves in a Plasma Waveguide

Esteghlal Journal of Engineering, 1994, Vol. 15, M.A. Salehi

Theory of Plasma Heating in Long Linear Theta Pinch Reactor by Axial Wave Damping

Iranian Journal of Science and Technology, 1995, Vol. 19, p173-82, M.R. Eskandari, Z.

Kalantari, and A.A. Harms

Gain Calculation for the D-T in SCAT and CAT Modes with Bremsstrahlung Loss and Reheat Branches

Plasma Physics Reports, 1996, Vol. 22, p4-, *A.A. Rukhadze, *P.V. Ribak, *Ya.K. Khadataev and **B. Shokri

*General Physics Institute, Lebedev Institute of the Russian Academy Of Sciences, Moscow, Russia

**presently at Physics Department and Laser-Plasma Research Institute, Shahid Behesti University, Tehran, Iran

Limiting Current of Electron Beam in Coaxial Systems

Laser and Particle Beams, 1996, Vol. 14, p149-56, *M.H. Mahdih and **T.A. Hall

*Work performed at Department of Physics, University of Essex, Essex, UK, currently at Department of Physics, Iran University of Science and Technology, Tehran, Iran

** Department of Physics, University of Essex, Essex, UK

Optical Emissivity from a Laser-Driven Shock-Heated Dense Plasma

Nuclear Science Journal, 1996, Vol. 33, p163-73, Z. Kalantari

Spin Polarization Effects on D-T and D-³He Inertial Confinement Fusion

Nuclear Science Journal, 1996, Vol. 33, p77-84, M. Eskandari

Electron Screening Utilization Factor in D-T Fusion Reaction at Low Energies for Different Distributions

Materials and Manufacturing Science, 1997, Vol. 12, p29-35, M. Ghoranneviss, M.

Moradshahi, M. Hosseinion, H. Golnabi and P. Korshid

Design and Fabrication of DC Ion Beam for Heating of Plasma

Nuclear Science Journal, 1997, Vol. 34, p153-63, A. Ghasemi-zad

The Energy Balance Study in a Meso-Catalytic Hybrid Reactor with Spin Polarization and Its Comparison with an Unpolarized System

Physics Letters A, 1997, Vol. 232, p115-8, *A.A. Rukhadze and **B. Shokri

*General Physics Institute, Moscow

** presently at Physics Department and Laser-Plasma Research Institute, Shahid Behesti University, Tehran, Iran

Oscillations of a Thin Magnetically Confined Plasma Layer

Journal of Plasma Physics, 1997, Vol. 58, p259-75, B. Sabzevari

Mode Coupling in Space and Time-Varying Anisotropic Absorbing Plasmas

Journal of Physics D, 1997, *M.H. Mahdih and **T.N. Hall

*Work performed at Department of Physics, University of Essex, Essex, UK, currently at Department of Physics, Iran University of Science and Technology, Tehran, Iran

** Department of Physics, University of Essex, Essex, UK

Optical Reflectivity of Dense Plasma Produced by Laser Driven Shock Waves

Physics of Plasmas, 1998, Vol. 5, p4070-8, S. Mirzanejhad

Dispersion Characteristics of Waves in a Waveguide with an Annular Plasma Column

Scientific Bulletin of the Atomic Energy Organization of Iran, 1998, Vol. 16, p45-9, M. Avakian and H. Minoo
Preionization in Alvand IIC Tokamak

International Journal of Mass Spectroscopy, 1999, Vol. 188, p177-82, S.M. Sadat Kiai
Confinement of Ions in a Radio Frequency Quadrupole Ion Trap Supplied with a Periodic Impulsional Potential

Journal of Plasma Physics, 1999, Vol. 62, p461-71, B. Sabzevari
A General Formula for the Size of the Mode-Coupling Region

Physics of Plasmas, 1999, Vol. 6, p2373-9, H. Abbasi
Influence of Particle Trapping on the Propagation of Ion Cyclotron Waves

Physics of Plasmas, 1999, Vol. 6, p3123-30, B. Maraghechi
Raman Scattering in a Partially Filled Plasma Waveguide near Cyclotron Resonance

Physics of Plasmas, 1999, Vol. 6, p3450-54, B. Shokri and A.A. Rukhadze
Quantum Surface Waves on a Thin Plasma Layer

Physics of Plasmas, 1999, Vol. 6, p4467-71, B. Shokri and A.A. Rukhadze
Quantum Drift Waves

Journal of Nuclear Science and Technology (AEOI), 2000, Vol. 16, p45-9, M. Avakian, H. Minoo, S. Avakian, and J. Behrooznia
Preionization in Alvand IIC Tokamak

Iranian Journal of Physics Research, 2000, Vol. 2, M.R. Eskandari and S.N. Hoseini Motlagh
A Study of Muon Efficiency Dependency on Ion Density in Fusion of D-T and D-T-H Mixtures and Their Comparison

Journal of Nuclear Science and Technology (AEOI), 2000, Vol. 21, p16-27, R. Amrollahi, M. Avakian and S. Avakian
Fourier Analysis of Experimental Results in ALVAND IIC Tokamak

Hyperfine Interactions, 2000, Vol. 128, p481-93, S.Z. Kalantari
Efficiency of the Muon Catalyzed Fusion in Triple H/D/T Mixtures

Physics of Plasmas, 2000, Vol. 7, p2671-B. Shokri, H. Ghomi, and H. Latifi
Dielectric Cherenkov Maser with a Magnetically Confined Plasma Column in a Dielectric Lined Slow-Wave Waveguide

Physics of Plasmas, 2000, Vol. 7, p2689-92, B. Shokri, H. Tavassoli, and H. Latifi
Magnetic Field Effects on Cross Section of Electron Capture in Dense Plasmas

Physics of Plasmas, 2000, Vol. 7, p3867-, B. Shokri
Low-Frequency Waves and Relaxation Processes in Semibounded and Bounded Plasma-Like Media

Physics Letters A, 2001, Vol. 288, p319-22, B. Shokri, F. Sohbatzadeh and H. Tavassoli
Response of a Nonlinear Magnetic Medium to an Incident Intense Magnetic Pulse

Nukleonika, 2001, Vol. 46 (Supplement), S85-7, *M.A. Tafreshi, *M. Farrahi, *M. Lamehi, *S. Goudarzi, *H. Habibi, *M. Memarzadeh, *V. Siahpoush, *E. Saeezadeh, **V.P. Vinogradov, **V.I. Krauz, **V.A. Krivtsov, **M.A. Karakin, **V.V. Myalton and **V.P. Tykshaev

*Plasma Physics Division, Atomic Energy Organization of Iran (AEOI)

** Plasmof Ltd., Moscow, Russia

Dena, a New PF Device

Chinese Physics Letters, 2001, Vol. 18, p393-5, *P. Khorshid, *W. Long, *Y. Xuanzong, *F. Chunhua, *Z. Pengyun, *Q. Xiazhi, **S. Rouhani, **M.F. Aghamir, **M. Ghorannevis, and ***M.R. Rahimitabar

*Institute of Physics, Chinese Academy of Sciences, Beijing, China

**Department of Physics, Islamic Azad University, Mashhad, Iran

***Institute for Studies in Theoretical Physics and Mathematics, Tehran

Magnetohydrodynamic Activity during Limiter Biasing on the CT-6B Tokamak

Plasma Physics Reports, 2001, Vol. 27, p579-83, *E. Farshi, **R. Amrollahy, ***A.V. Bortniko, ***N.N. Brevnov, ***Yu. V. Gott, and ***V.A. Shurygin

*Department of Advanced Engineering Science, Kyushu University, Kasuga, Japan

**K-N Toosi University of Technology, Tehran, Iran

***Russian Research Centre Kurchatov Institute, Moscow, Russia

Behavior of Hard X-Ray Emission in Discharges with Current Disruption in Damavand STVD Tokamak

Radiation Measurements, 2001, Vol. 34, p609-13, *F. Ziaie, *H. Afarideh, **S.M. Hadji-Saied, and ***S.A. Durran

*Nuclear Research Center for Agriculture and Medicine, Karaj, Iran; AmirKabir University of Technology, Physics Department, Tehran; Yazd Radiation Processing Center, Yazd, Iran

** Yazd Radiation Processing Center, Yazd, Iran

***School of Physics and Space Research, University of Birmingham, Birmingham, UK

Investigation of Beam Uniformity in Industrial Electron Accelerator

Physics of Plasmas, 2001, Vol. 8, p788-90, B. Shokri and T. Vazifehshenas
Thermal Motion Effect on the Filamentation of a Strongly Collisional Current-Driven Plasma

Journal of Fusion Energy, 2002, Vol. 20, p45-, A.R. Babazedah, M.V. Roshan and S.M. Sadat Kiai

Latest Results from the Damavand Tokamak Experiments

Physics of Plasmas, 2001, Vol. 8, p3902-, H. Tavassoli, F. Sohbatzadeh, H. latifi, and B. Shokri

Magnetic Field Effects on Cross Section of Inelastic Electron-Ion Collisions

Iranian Journal of Physics Research, 2002, Vol. 3, A. Parvazian and J. Jafari
Energy Gain of Ignitable Targets in Inertial Confinement Fusion (ICF)

International Journal of Mass Spectrometry, 2002, Vol. 213, p177-81, A.R. Babazadeh, M.V. Roshan and S.M. Sadat Kiai

Effect of Magnetic Field on the Confinement of Ions in a Three-Dimensional Radio Frequency Quadrupole Trap

Nukleonika, 2002, Vol. 47, p123-5, A.R. Babazadeh, S.M.S. Kaiai and M.V. Roshan
Experimental Study of X-Ray Emission Yield in a Filippov-Type Plasma Focus
Operating in Neon and Neon-Krypton Mixture

International Journal of Engineering Science (Tehran), 2002, Vol. 13, p31-40, R. Khoda-Bakhsh

Deuterium-Tritium Fusion with Different Tritium Content

International Journal of Engineering Science (Tehran), 2002, Vol. 13, p49-65, M. Haeri, M. Emami, and M. Ofoghi

Plasma in Damavand Tokamak: Modeling and Control

Brazilian Journal of Physics, 2002, Vol. 32, p89-93, A.R. Babazadeh, M.V. Roshan, H. Habibi, A. Nasiry, M. Memarzadeh, A. Banoushi, M. Lamahi and S.M. Sadat Kiai
X-Ray and Neutron Emission Studies in a New Filippov Type Plasma Focus

Brazilian Journal of Physics, 2002, Vol. 32, p-, M. Emami, A.R. Babazadeh, M.V. Roshan, M. Memarzadeh, and H. Habibi

Digital Control of Plasma Position in Damavand Tokamak

Scientia Iranica, 2002, Vol. 9, p116-24, S. Khorasani and H. Golnabi
FEM Simulation of Two and Three-Electrode Spark Gap Discharges

Scientia Iranica, 2002, Vol. 9, p153-6, A. Hojabri, M. Ghoranneviss and A. Anvari
Mode Locking in the Iran-Tokamak (IR-T1)

Czechoslovak Journal of Physics, 2002, Vol. 52, p476-80, J. Mahmoodi
Plasma Effects of Grain Dust Alignment

Hyperfine Interactions, 2002, Vol. 142, p627-42, S.Z. Kalantari and V. Tahani
Investigation of Epithermal Molecular Formation and Hyperfine Interaction Effects on Kinetics of uCF

Iranian Journal of Physics Research, 2002, Vol. 3, p89-99, A. Parvazian and J. Jafari
Energy Gain of Ignitable Targets in Inertial Confinement of Fusion

Physica Scripta, 2002, Vol. 65, p248-51, A.R. Babazadeh, M.V. Roshan and S.M.S. Kiai
Experimental Investigations of X-Ray Emission in a New Filippov-Type Plasma Focus

Physics Letters A, 2002, Vol. 300, p432-6, B. Shokri and B. Jazi
Filamentation of a Subsonic Plasma Jet by Surface Waves

Journal of Fusion Energy, 2002, Vol. 21, p53-, M.A. Tafreshi and E. Saeedzadeh
Magnetic Probe Measurements in a Filippov-Type PF Facility

Physics of Plasmas, 2002, Vol. 9, p701-, B. Shokri
Kinetic Theory of Surface Waves in Plasma Jets

Physics of Plasmas, 2002, Vol. 9, p2885-, B. Shokri
Screening in Anisotropic Plasmas

Physics of Plasmas, 2002, Vol. 9, p3355-, B. Shokri, S.M. Khorashadi, and M. Dastmalchi
Ion-Acoustic Filamentation of Current-Driven Plasma

Journal of Fusion Energy, 2003, Vol. 22, p79-82, M.V. Roshan and M. Mahmoodi Darian
Experimental Study of Plasma Materials Interaction in Plasma Focus "Dena"

Nuclear Fusion, 2003, Vol. 43, p210-5, M. Ghoranneviss
MHD Activity at Low $q(a)$ in Iran Tokamak 1 (IR-T1)

Physics Letters A, 2003, Vol. 314, p456-63, B. Shorki and B. Jazi
Ion-Acoustic Modulation of a Magnetized Plasma Jet by Surface Waves

Journal of Physics D, 2003, Vol. 36, p1188-91, *M.H. Mahdieh and **T.N. Hall
* Department of Physics, Iran University of Science and Technology, Tehran, Iran
** Department of Physics, University of Essex, Essex, UK
Real Time Calculation of Shock Waves Driven by Sub-Nanosecond Laser Pulses

Physical Review E, 2003, Vol. 67, p026704-026704.16, *F. Kazeminezhad, **S. Kuhn, and ***A. Tavakoli

*Consultant

**Institut fuer Theoretische Physik, Universitaet Innsbruck, Innsbruck, Austria

***Institute for Studies in Theoretical Physics and Mathematics, Tehran

Vlasov Model Using Kinetic Phase Point Trajectories

Physics Letters A, 2003, Vol. 318, p415-24, B. Shorki and B. Jazi

Azimuthal Electromagnetic Surface Waves on an Annular Magnetized Plasma

Iranian Journal of Science and Technology, 2003, Vol. 27, p429-38, V. Siahpoush, S.

Sobhanian, M.A. Tafreshi, and M. Lamehi

A Model for Plasma Evolution in Filipov Type Plasma Focus Facilities

International Journal of Quantum Chemistry, 2003, Vol. 93, p377-83, M.R. Eskandari

and F. Faghihi

Minimum Binding Energy and Size of the Doubly Muonic T₃ Molecule

Journal of Physics D, 2003, Vol. 36, p1188-91, *M.H. Mahdieh and **T.A. Hall

*Department of Physics, Iran University of Science and Technology, Tehran, Iran

**Department of Physics, University of Essex, Essex, UK

Real Temperature Calculation of Shock Wave Driven by Sub-Nanosecond Laser Pulses

Physics of Plasmas, 2003, Vol. 10, p3471-, B. Shokri and S.K. Alavi

Stability of Surface Dust Acoustic Waves in the Presence of Nonspherical and Rotating Charged Dust Grains

Scientia Iranica, 2003, Vol. 10, p419-25, F. Dini, S. Khorasani, and R. Amrollahi

Variational Finite Element Method for Axisymmetric Magneto-Hydrodynamic Equilibrium

Physics of Plasmas, 2003, Vol. 10, p4153-, B. Shokri and A.R. Niknam

Discharge Plasma Instabilities in the Presence of an External Constant Electric Field

Physics of Plasmas, 2003, Vol. 10, p4622-, B. Shokri and B. Jazi

Excitation of Nonreciprocal Electromagnetic Surface Waves in Semibounded Magnetized Plasmas by an Electron Beam

Arvix.org, 2004, A. Ghasemizad and M. Kamran

The Concept of Isochoric Central Spark Ignition and its Fuel Gain in Inertial Fusion

Pramana, 2004, Vol. 62, p53-60, M. Emami, A.R. Babazadeh, and H. Rasouli

Optimization and Performance of a High-Speed Plasma Position Digital Control System

Physics Letters A, 2004, Vol. 320, p417-22, B. Shokri and S.M. Khorashadizadeh

Filamentation of a Rotating Electron Beam in a Magnetized Plasma

Journal of Nuclear Science and Technology (AEOI), 2004, Vol. 30, p1-8, A. Solimanian and K. Derikum
Establishment of a Reference High-Energy Electron Beam

Physics Letters A, 2004, Vol. 329, p362-8, *B. Shokri, **M. Ghorbanalilu, and ***A.A. Rukhadze
*Physics Department and Laser Research Institute of Shahid Beheshti University, Tehran; Institute for Studies in Theoretical Physics and Mathematics, Tehran;
**Department of Electrical and Computer Engineering, University of Alberta, Edmonton, Canada
** Physics Department and Laser Research Institute of Shahid Beheshti University, Tehran; Institute for Studies in Theoretical Physics and Mathematics, Tehran
***Institute of General Physics, Moscow
Low-Frequency Instability of Plasmas Produced by Linearly Polarized Microwave Pulsed Fields

Physics Letters A, 2004, Vol. 331, p77-83, D. Dorrnian, M. Ghoranneviss, M. Starodubtsev, H. Ito and N. Yugami
Generation of Short Pulse Radiation from Magnetized Wake in Gas-Jet Plasma and Laser Interaction

Iranian Journal of Science and technology, Transaction A, 2004, Vol. 28, p197-204, F. Dini, S. Khorasani and R. Amrollahi
Green Function of Axisymmetric Magnetostatics

Journal of Plasma Fusion Research, 2004, Vol. 6, p638-41, *K. Pejman, **Wang Long, *G. Mahmoud, ***F.M. Aghamir, Yang Xuanzong, and **Feng Chunhua
*Department of Physics, Islamic Azad University, Mashhad, Iran
**Institute of Physics, Chinese Academy of Sciences, Beijing, China
***Department of Physics, University of Tehran, Tehran
The Study of Fluctuations at the Edge of CT-6B Tokamak

Journal of Plasma Fusion Research, 2004, Vol. 6, p735-7, *A.H. Sari, *M. Ghoranneviss, **H. Hora, ***F. Osman, *R. Hopel, *M.R. Hantehzadeh and ****N. Bolouki
*Plasma Research Center, Science and Engineering Research Campus of Islamic Azad University, Tehran
**Faculty of Electrical Engineering, University of Applied Science, Deggendorf, Germany
***Department of Theoretical Physics, University of New South Wales, Sydney, Australia
****School of Quant. Methods and Mathematical Sciences, University of Western Sydney, Penrith, Australia
Fabrication of a 50 keV Cold Cathode Electron Gun

Physics of Plasmas, 2004, Vol. 11, p2989-, B. Shokri
Weibel Instability of Microwave Gas Discharge in Strong Linear and Circular Pulsed Fields

Plasma Physics and Controlled Fusion, 2004, Vol. 46, p507-18, B. Jazi
Dispersion Relation of Azimuthal Electromagnetic Surface Waves on a Magnetized Plasma Column in a Dielectric Lined Slow-Wave Waveguide

Measurement Science and Technology, 2004, Vol. 15, p1000-04, M. Emami and H. Rasouli
Plasma Electron Density Measurement by a Digital Signal Processor Based Millimetre-Wave Interferometer

Physics of Plasmas, 2004, Vol. 11, p1689-94, B. Shokri and S.M. Khorashadizadeh
Acceleration of Positrons by a Relativistic Electron Beam

Physics of Plasmas, 2004, Vol. 11, p5162-, B. Shokri and M. Ghorbanalilu
Low-Frequency Instability of Circularly Polarized Microwave-Pulsed-Field-Produced Plasmas

Physics of Plasmas, 2004, Vol. 11, p5398-, B. Shokri and M. Ghorbanalilu
Relativistic Effects on the Weibel Instability of Circularly Polarized Microwave Produced Plasmas

Journal of Sciences, Islamic Azad University, 2004, Vol. 14, p4288-, *H. Hora, **A.H. Sari, ***M. Ghorannevis
*Department of Theoretical Physics, University of New South Wales, Sydney, Australia
**Islamic Azad University, Tehran, Iran

Laser beam Smoothing for Suppression of Anomalies of Laser-Plasma Interaction for ICF

International Journal of Mass Spectrometry, 2005, Vol. 247, p61-6, S.M. Sadat Kiai, M. Baradaran, S. Adlparvar, M.M.A. Khalaj, A. Doroudi, S. Nouri, A.A. Shojai, M. Abdollahzadeh, F. Abbasi, M.V. Roshan, and A.R. Babazadeh
Impulsional Mode Operation for a Paul Ion Trap

Plasma Physics and Controlled Fusion, 2005, Vol. 47, p37-47, B. Jazi
Excitation of Electromagnetic Surface Waves by an Annular Electron Beam in a Plasma Waveguide with a Dielectric Rod and a Magnetized Plasma Column

Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, Vol. 95, p61-9, F. Shekh-Momeni and J. Samimi
Effective Compton Cross Section in Non-Degenerate High-Temperature Media

Czechoslovak Journal of Physics, 2005, Vol. 55, p45-, S. Goudarzi, S.M. Sadat Kiai, N. Morshedian and A. Nasiri

Experimental Study of the Neutron Emission Mechanisms in a Filippov-Tye Plasma Focus Device

Physics Letters A, 2005, Vol. 336, p47-89, B. Shokri and B. Jazi

Spatial Growth Rate and Field Profiles of Symmetric Mode in a Rod Dielectric Cerenkov Maser with a Magnetized Plasma Column

Physics Scripta, 2005, Vol. T116, p110-2, H. Abbasi and H. Hakimi Pajouh

Beyond the Paraxial Approximation in Laser Plasma Interaction

Physics Letters A, 2005, Vol. 342, p341-6, B. Shokri, and M. Ghorbanalilu

Magnetic Field Effect on a Plasma Produced by Circularly Polarized Pulsed Microwave Fields

Iranian Journal of Science and Technology, 2005, Vol. 29, p421-31, A. Ghasemizad,

M.R. Eskandari, S. Khoshbinafar, and M. Kamran

On the Investigation of Spark Formation Conditions and Energy Gain in Inertial Confinement Fusion

Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, Vol. 95, p61-9, F.

Shekh-Momemi and J. Samimi

Effective Compton Cross Section in Non-Degenerate High-Temperature Media

Plasma Physics and Controlled Fusion, 2005, Vol. 47, V. Siahpoush, M.A. Tafreshi, S.

Sobhanian, and S. Khorram

Adaptation of Sing Lee's Model to the Filippov Type Plasma Focus Geometry

Physics of Plasmas, 2005, Vol. 12, p33104-110, B. Shokri and B. Jazi

Time Growth of Symmetric TM Mode of a Rod Dielectric Cerenkov Plasma Maser

Physics Letters A, 2005, Vol. 344, p447-50, B. Shokri and S.M. Khorashadizadeh

Dissipative Instability of a Highly Relativistic Electron Beam through the Excitation of Surface Waves on a Conducting Medium

Physics of Plasmas, 2005, Vol. 12, p43506-1-5, B. Shokri, M. Ghorbanalilu

Parametric Instability of Plasmas Produced by Linearly Polarized Microwave Pulsed Fields

Laser and Particle Beams, 2005, Vol. 23, p583-96, *D. Dorrnian, *M. Ghoranneviss,

M. Starodubtsev, *N. Yugami, and ***Y. Nishida

*Plasma Physics Research Center, Islamic Azad University, Tehran, Iran

**Institute of Applied Physics RAS, Nizhny Novgorod, Russia

***Graduate School of Engineering, Utsunomiya University, Tochigi, Japan

Microwave Emission from TW-100 fs Laser Irradiation of Gas Jet

- Iranian Journal of Science and Technology, Transaction A, 2005, Vol. 29, p1-11, A. Ghasemzad, M.R. Eskandari, S. Khoshbinfar and M. Kamran
On the Investigation of Spark Formation Conditions and Energy Gain in Inertial Confinement Fusion
- Iranian Journal of Physics Research, 2005, Vol. 4, p301-7, M. Hedayati, M.A. Tafreshi and M. Lamehi
Simulation of MHD Shock Waves in Plasma Focus Facilities
- Physics of Plasmas, 2005, Vol. 12, p62110-1-3, B. Shokri and A.R. Niknam
Nonlinear Dynamic of Low-Frequency Buneman Instability of a Current-Driven Plasma
- Physics of Plasmas, 2005, Vol. 12, p62114-1-5, B. Shokri and S.K. Alavi
Spin Waves in Dusty Plasmas
- Physics of Plasmas, 2005, Vol. 12, p72107-1-5, B. Shokri and A.R. Niknam
Kinetic Theory of Low-Frequency Instability of Discharge Plasma
- Physics of Plasmas, 2005, Vol. 12, p82101-4, B. Shokri and S.M. Khorashadizadeh
Excitation of the Half-Cyclotron Waves by the Counterstreaming Electron-Positron Beams
- Physics Letters A, 2006, Vol. 352, p520-3, B. Shokri and S.M. Khorashadizadeh
Thermal Effects in the Dissipative Instability of the Electron Beam-Plasma Systems
- Iranian Journal of Physics Research, 2006, Vol. 5, p197-212, A. Parvazian and A. Okhovat
Neutron, Electron, and Photon Transport in Inertial Confinement Fusion Target in Direct and Fast Ignition
- Journal of Plasma Physics, 2006, Vol. 72, p71-83, N. Nassiri-Mofakham and B. Sabzevari
Mode Conversion in Plasmas with Two-Dimensional Inhomogeneities
- Journal of Plasma Physics, 2006, Vol. 72, p1-12, N. Nassiri-Mofakham and A. Parvazian
A Two-Dimensional Analysis of Mode Conversion at a Resonance Layer with High-Magnetic Field Side Reflection
- Journal of Nuclear Science and Technology (AEOI), 2006, Vol. 3, p39-43, M.A. Tafreshi and Y. Sadeghi
Application of the Fourier and Wavelet Transforms in Noise Reduction of the Out of the Ordinary Data

Physics Letters A, 2006, Vol. 355, p122-8, *B. Farokhi, *I. Kourakis, **P.K. Shukla
*Department of Physics, Bu-Ali Sina University, Hamadan, Iran
**Institut für Theoretische Physik IV, Fakultät für Physik und Astronomie, Ruhr-Universität Bochum, Bochum, Germany
Dust Lattice Wave Dispersion Relations in Two-Dimensional Hexagonal Crystals Including the Effect of Dust Charge Polarization

Journal of Physics D, 2006, Vol. 39, p135-47, M.H. Mahdih and A. Gavili
Hydrodynamics of a Non-Uniform Super-Gaussian Ion Plasma Produced by Pulsed Lasers in an Electrostatic Field

Journal of Plasma Fusion Research, 2006, Vol. 7, p307-309, M. Ghoranneviss, K. Yasserian, A. Anvari, H. Pourbalasi, A. Hojabri and H. Hosseini
Design and Fabrication of a DC Cylindrical Magnetron Sputtering Device

Iranian Journal of Physics Research, 2006, Vol. 5, A. Parvazian and A. Okhovat
Neutron, Electron and Photon Transport in ICF Targets in Direct and Fast Ignition

Journal of Plasma Physics, 2006, Vol. 72, p. 351-8, H. Alinejad, S. Sobhanian, and J. Mahmood
Nonlinear Ion-Acoustic Waves in Weak Magnetic Fields with Vortex-Like Electron Distribution

Physics Letters A, 2006, Vol. 357, p66-71, M. Mahmoudi, M. Sahri, and H. Tajalli
Subluminal and Superluminal Light Propagation via Interference of Incoherent Pump Fields

Physics Letters A, 2006, Vol. 358, p149-53, B. Jazi, B. Khoshnevisan, and H. Zeynali
The Theoretical Simulation of Magnetized Electron Beam Effects on Radially Polarized of an Annular Cylindrical Piezoelectric Crystal

Physics Letters A, 2006, Vol. 359, p366-72, *M. Amniat-Talab, *R. Khoda-Bakhsh, and **S. Guerin
*Physics Department, Faculty of Sciences, Urmia University, Urmia, Iran
**Laboratoire de Physique, UMR CNRS, Université de Bourgogne, Dijon, France
Quantum State Engineering in a Cavity by Stark Chirped Rapid Adiabatic Passage

Czechoslovak Journal of Physics, 2006, Vol. 56, Suppl. B, B80-86, M. Harzchi, N. Alinejad, and H. Farid Yousefi
Study of the Plasma Equilibrium in Damavand Tokamak via Numerical Solution of the Grad-Shafranov Equation

Plasma Physics and Controlled Fusion, 2006, Vol. 48, p1105-23, B. Jazi
Azimuthal Electromagnetic Surface Waves in a Rod Dielectric Magnetized Plasma Waveguide and Their Excitation by an Annular Relativistic Rotating Electron Beam

Physics of Plasmas, 2006, Vol. 13, p11310-, B. Shokri and A.R. Nikman
Nonlinear Structure of the Electromagnetic Waves in Underdense Plasmas

Physics of Plasmas, 2006, Vol. 13, p11311-3, V. Sazegari and B. Shokri
Ponderomotive Acceleration of Injected Electrons in Tenuous Plasmas by Intense Laser Beams

Physics of Plasmas, 2006, Vol. 13, p22102-6, M. Ghorbanalilu and B. Shokri
Resonance Parametric Instability in Microwave Gas Discharges Produced by Circular Polarization Fields

Physics of Plasmas, 2006, Vol. 13, p33102-4, V. Sazegari, M. Mirzaie, and B. Shokri
Ponderomotive Acceleration of Electrons in the Interaction of Arbitrary Polarized Laser Pulse with a Tenuous Plasma

Physics of Plasmas, 2006, Vol. 13, p52116-52121, B. Shokri and S.M. Khorashadizadeh
The Excitation of Extraordinary and Ordinary Waves in a Magnetized Plasma Medium by a Rotating Beam

Physics of Plasmas, 2006, Vol. 13, p11310-5, B. Shokri and A.R. Niknam
Nonlinear Structure of the Electromagnetic Waves in Underdense Plasmas

Journal of Fusion Energy, 2006, Vol. 25, p181-5, M. Abdollahzadeh, S.M. Sadat Kiai, G.R. Etaati, and A.R. Babazadeh
Some Studies on the Time Resolved Energy Spectrum Reconstruction for Pulsed Neutron Source

IEEE Transactions on Plasma Science, 2006, Vol. 34, p2568-71, M.V. Roshan, A.R. Babazadeh and S.M. Sadat Kiai
Effect of Impurities on the Exclusive Parameters of Plasma-Focus Dena

Journal of Fusion Energy, 2006, Vol. 25, p181-, M. Abdollahzadeh, S.M. sadat Kiai, G.R. Etaati and A.R. Babazadeh
Some Studies on the Time Resolved Energy Spectrum Reconstruction for Pulsed Neutron Source

Journal of Fusion Energy, 2006, Vol. 25, p241-6, M. Mahmoodi Darian, A. Hojabri, M.K. Salem and M. Ghoranneviss
The Influence of Resonance Helical Field on the Z_{eff} and Impurity Radiation in the IR-T1 Tokamak

Iranian Journal of Physics Research, 2007, Vol. 7, p5-, A. Ghasemizad and M.J. Tabatabai
Determination of Optimum Proton Pulse Duration for Triggering Fast Ignition in Inertial Confinement Fusion

Iranian Journal of Physics Research, 2007, Vol. 7, p25-, M. Hosseinpour, A. Anvari and M. Ghorannevis
Determining of Electron Temperature Profile on the Cross Section of a Tokamak, using ECE Technique

Laser Physics, 2007, Vol. 17, p18-21, M. Emami
Design of Capillary Z-Pinch Plasma for a Soft X-Ray Laser

Journal of Science, Islamic Azad University, 2007, Vol. 17, p13-19, J. Payamarar, K. Yasserian and M. Ghorannevis
Design and Fabrication of a Semi Industrial Cylindrical Magnetron Discharge

Physical Review C, 2007, Vol. 75, 034605, O.N. Ghodsi and M. Mahmoodi
Calculation of Complete Fusion Cross Section of Heavy Ion Reactions using the Monte Carlo Method

Journal of Prime Research in Mathematics, 2007, Vol. 3, p169-77, S.M. Hosseinmotlagh, M. Roostaie and H. Kazaemifard
Analytical Solutions to Brajinskii's Equations in One Dimension by Using Laplace Transform Technique

Journal of Sciences, Islamic Azad University, 2007, Vol. 17, p42-47, M. Ghorannevis, S.R. Shariatzadeh, A. Talebi Taher, M.K. Salem, P. Arvin, S. Mohammadi, M. Ghasemloo and R. Tarkeshian
Design and Fabrication of Langmuir Probe Circuit for Measurement of Plasma Edge Electron Temperature and Density in IR-T1 Tokamak

Journal of Sciences, Islamic Azad University, 2007, Vol. 18, p171-6, S. Koshbinfar and A. Ghasemizad
On the Self Similar Energy Gain Scaling in Isobaric Approach of ICF Targets

Physics Letters A, 2007, Vol. 361, p360-3, *H.R. Yousefi, *F.M. Aghamir, and **K. Masugata
*Department of Physics, University of Tehran, Tehran, Iran
**Electric Power System Laboratory, Department of Electric and Electronic Engineering, University of Toyama, Toyama, Japan
Effect of the Insulator Length on Mather-Type Plasma Focus Devices

Far East Journal of Dynamical Systems, 2007, Vol. 9, p125-31, M. Mahdavi and V. Zanganeh
Effect of Internal ^3He Breeding on Muon Cycle in Tritium Target

Nuclear Science and Techniques, 2007, Vol. 18, p129-36, S.N. Hosseini Motlagh, S. Mohamady, M.K. Moradkhani, and R. Shamsi
Effect of Tritium Reduction in Determining Energy Gain by Using R-Matrix Method Direct Laser Fusion in D-T Reaction

Journal of Prime Research in Mathematics, 2007, Vol. 3, p169-177, S.N.

Hosseinimotlagh, M. Roostaie and H. Kazemifard

Analytical Solutions to Branjinskii's Equations in One Dimension by using Laplace Transform Technique

Journal of Fusion Energy, 2007, Vol. 26, p343-47, S. Goudarzi, R. Amrollahi and E. Alizadeh

Experimental Study of the Variation of Neutron Emission Anisotropy in a Filippov-Type Plasma Focus Facility

Nuclear Instruments and Methods in Physics Research A, 2007, Vol. 581, p839-43, R.

Khoda-Bakhsh, A. Soltanian and M. Amniat-Talab

Volume Ignition of ^3He Pellets

Plasma Physics and Controlled Fusion, 2007, Vol. 49, p1335-43, *M. Mirzaie, **B.

Shokri and ***A.A. Rukhadze

*Physics Department, Shahid Beheshti University, Tehra, Iran

**Institute for Studies in Theoretical Physics and Mathematics, Tehran, Iran

***General Physics Institute, Moscow, Russia

Analysis of Overcritical Plasma Production by Strong Microwave Fields

Plasma Physics and Controlled Fusion, 2007, Vol. 49, p1447-55, T.D. Mahabadi and

M.A. Tafreshi

An Investigation of the Plasma Behavior in a Filippov Type Plasma Focus Device

Plasma Science and Technology, 2007, Vol. 16, p785-90, *M.A. Mohammadi, ***R.

Verma, *S. Sobhanian, **C.S. Wong, ***S. Lee, ***S.V. Springham, ***T.L. Tan,

***P. Lee and ***R.S. Rawat

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**Plasma Research Laboratory, Physics Department, University of Malaya, Kuala

Lumpur, Malaysia

***Natural Sciences and Science Education, National Institute of Education, Nanyang

Technological University, Singapore

Neon Soft X-Ray Emission Studies from the UNU-ICTP Plasma Focus Operated with

Longer than Optimal Anode Length

Journal of Fusion Energy, 2007, Vol. 26, p313-6, M.V. Roshan, A.R. Babazadeh, S.M.

Sadat Kiai, H. Habibi, and M. Mamarzadeh

Investigation of Plasma Facing Components in Plasma Focus Operation

Nuclear Instruments and Methods in Physics Research, Section A, 2007, Vol. 581, p839-

43, R. Khoda-Bakhsh, A. Soltanian and M. Amniat-Talab

Volume Ignition of ^3He Pellets

Amirkabir Journal of Science, 2007-8, Vol. 18, p1-6, S.H. Goudarzi, R. A. Elahi and H. Yazdani

A Method for Measuring the Time-Resolved Spectrum of the Neutrons Emitted in Plasma Focus Devices

Journal of Plasma Physics, 2008, Vol. 74, p35-46, A.R. Niknam and B. Shokri
Low-Frequency Temperature-Dependent Plasma Discharge Instabilities in the Presence of External Constant Electric and Magnetic Fields

Journal of Fusion Energy, 2008, Vol. 27, p154-60, S.N. Hosseini Motlagh, Sh. S. Mohammadi and R. Shamsi
Application of High Energy Protons in Inertial Confinement Fusion by using the Fast Ignitor Concept for DT Fusion

Plasma Devices and Operations, 2008, Vol. 16, p105-114, P. Zodeh, R. Sadigh-Bonabi and H. Afarideh
New Ellipsoid Cavity Model for High Intensity Laser-Plasma Interaction

Journal of Fusion Energy, 2008, Vol. 27, p161-7, S.N. Hosseini Motlagh, Sh. S. Mohammadi and R. Shamsi
Calculation of β -Parameter and Energy Gain for Aneutronic Fusion in Degenerate P-¹¹B Plasma

Journal of Fusion Energy, 2008, Vol. 27, p168-176, S.N. Hosseini Motlagh, A. Enanyati and R. Shamsi
Studies on the Dynamics of D-T Fusion Reaction on the Relativistic Equilibrium Velocity Distribution

Journal of Fusion Energy, 2008, Vol. 27, p177-81, S.N. Hosseini Motlagh
Determination of Thermomagnetic Current by using Neutron Released from Deuterium-Tritium Fusion Reactions in Hybrid Reactors

Journal of Fusion Energy, 2008, Vol. 27, p195-9, S. Goudarzi, R. Amrollahi and R. Saberi Moghaddam
A Model based on Lumped Parameters for Filippov-Type Plasma Focus Device

Laser and Particle Beams, 2008, Vol. 26, p105-112, **M. Ghoranneviss, **B. Malekynia, *H. Hora, ***G.H. Miley and ****X. He
*Department of Theoretical Physics, University of New South Wales, Sydney, Australia
**Plasma Physics Research Center, Science and Research Branch, Islamic Azad University, Tehran
***Department of Nuclear, Plasma and Radiological Engineering, University of Illinois, Urbana, Illinois
****Institute of Applied Physics and Computational Mathematics, Beijing, China
Inhibition Factor Reduces Fast Ignition Threshold for Laser Fusion using Nonlinear Force Driven Block Acceleration

Computational and Applied Mathematics, 2008, Vol. 27, p107-21, A. Ebadian and P. Darania
Study of Exact Solutions of Nonlinear Heat Equations

Proceedings of World Academy of Science, Engineering and Technology, 2008, Vol. 33, p271-274, R. Amrollahi and M. Habibi
Computational Simulation of Imploding Current Sheath Trajectory at the Radial Phase of Plasma Focus Performance

Contributions to Plasma Physics, 2008, Vol. 48, p555-560, P. Zobdeh, R. Sadighi-Boanbi, H. Afarideh, E. Yazdani and R. Rezaei Nasirabad
Using the Steepened Plasma Profile and Wave Breaking Threshold in Laser-Plasma Interaction

IEEE Transactions on Plasma Science, 2008, Vol. 36, p794-801, A. talaei, S.M. Sadat Kiai and S. Adlparvar
Pinched Plasma Study in a Filippov-Type Plasma Focus "Dena"

Chaos, Solitons & Fractals, 2008, Vol. 36, p1232-43, K.R. Shirazi
Theoretical Studies on Solid Heterogenous Targets in Muon Catalyzed Fusion using Transport Theory and its Comparison with Available Experimental Values

Journal of Applied Sciences, 2008, Vol. 8, p1586-89, A. Ghasemizad and S. Khoshbinfar
Ignition Criteria of Spark Parameters in Direct Drive Inertial Confinement Fusion

Plasma Devices and Operations, 2008, Vol. 16, p105-14, P. Zobdeh, R. Sadighi-Bonabi and H. Afarideh
New Ellipsoid Cavity Model for High-Intensity Laser-Plasma Interaction

Fusion Engineering and Design, 2008, Vol. 83, p2008-5, M. Emami, M. Ghoranneviss and R. Tarkeshian
Comparative Study of Plasma Position Measurement using Multipole Moments and Discrete Magnetic Probes Methods on IR-T1 Tokamak

Applied Physics Letters, 2008, Vol. 93, 011101, *H. Hora, **B. Malekynia, **M. Ghoranneviss, ***G.H. Milay and ****X. He
*Department of Theoretical Physics, University of New South Wales, Sydney, Australia
**Plasma Physics Research Center, Science and Research Branch, Islamic Azad University, Tehran
***Department of Nuclear, Plasma and Radiological Engineering, University of Illinois, Urbana, Illinois
****Institute of Applied Physics and Computational Mathematics, Beijing, China
Twenty Times Lower Ignition Threshold for Laser Driven Fusion using Collective Effects and the Inhibition Factor

Computers and Mathematics with Applications, 2008, Vol. 56, p2175-88, F. Shakeri and M. Dehghan

The Method of Lines for Solution of the One-Dimensional Wave Equation Subject to an Integral Conservation Condition

Plasma Physics and Controlled Fusion, 2008, Vol. 50, 105003, M. Abdollahzadeh, S.M. Sadat Kiai and A.R. Babazadeh

Measurement of the Time Dependent Neutron Energy Spectrum in the 'DENA' Plasma Focus Device

Plasma Physics and Controlled Fusion, 2008, Vol. 50, M. Abdollahzadeh, S.M. Sadat Kiai and A.R. Babazadeh

Measurement of the Time Dependent Neutron Energy Spectrum in the DENA Plasma Focus Device

Contributions to Plasma Physics, 2009, Vol. 49, p49-54, R. Sadighi-Bonabi, S. Rahmatallahpor, H. Navid, E. Lotfi, P. Zobdeh, Z. Reiazie, M. Bostandoust and M. Mohamadian

Energy Evaluation of Mono-Energetic Electron beam produced by Ellipsoid Cavity Model in the Bubble Energy

Journal of Fusion Energy, 2009, Vol. 28, p130-4, M. Habibi, R. Amrollahi and M. Attaran

Experimental Study of Current Discharge Behavior and Hard X-Ray Anisotropy by APF Plasma Focus Device

Journal of Fusion Energy, 2009, Vol. 28, p135-8, **B. Malekynia, **M. Ghoranneviss, *H. Hora and ***G.M. Miley

*Department of Theoretical Physics, University of New South Wales, Sydney, Australia

**Plasma Physics Research Center, Science and Research Branch, Islamic Azad University, Tehran

***Department of Nuclear, Plasma and Radiological Engineering, University of Illinois, Urbana, Illinois

Thermal Transport Effect in Tokamaks and Block Ignition for Laser Fusion

Laser and Particle Beams, 2009, Vol. 27, p149-156, *E. Yazdani, **Y. Cang, *R. Sadighi-Bonabi, ***H. Hora and ****F. Osman

*Physics Department, Sharif University, Tehran, Iran

**Institute of Physics, Chinese Academy of Sciences, Beijing, China

***Department of Theoretical Physics, University of New South Wales, Sydney, Australia

****School of Computation and Mathematics, University of Western Sydney, Penrith, Australia

Layers from Initial Rayleigh Density Profiles by Directed Nonlinear Force Driven Plasma Blocks for Alternative Fast Ignition

Journal of Fusion Energy, 2009, Vol. 28, p282-289, F. Dini and S. Khorasani
MHD Equilibrium and Kink Stability in Damavand Tokamak

Journal of Fusion Energy, 2009, Vol. 28, p296-299, *R. Shariatzadeh, **M.
Ghoranneviss, ***M. Emami, ****A. Anvari and *****G. Van Oost
*Islamic Azad University
**Plasma Physics Research Center, Islamic Azad Univeristy
***School of Laser and Optics, Institute of Nuclear Science and Technology, AEOI
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*****Department of Applied Physics, Ghent Univeristy
Design and Fabrication of a Movable Langmuir probe for Plasma Edge Parameters
Measurements in the IR-T1 Tokamak

Laser and Particle Beams, 2009, Vol. 27, p201-206, *N. Azizi, **H. Hora, ***G.H.
Miley, *B. Malekynia, *M. Ghorannevis and X. He
* Plasma Physics Research Center, Islamic Azad University, Tehran, Iran
** Department of Theoretical Physics, University of New South Wales, Sydney,
Australia
*** Department of Nuclear, Plasma and Radiological Engineering, University of Illinois
****Institute of Applied Physics and Computational Mathematics, Beijing, China
Threshold for Laser Driven Block Ignition for Fusion Energy from Hydrogen Boron-11

Laser and Particle Beams, 2009, Vol. 27, p233-241, *B. Malekynia, *M. Ghorannevis,
H. Hora and *G.H. Miley
* Plasma Physics Research Center, Islamic Azad University, Tehran, Iran
** Department of Theoretical Physics, University of New South Wales, Sydney,
Australia
*** Department of Nuclear, Plasma and Radiological Engineering, University of Illinois
Collective Alpha Particle Stopping for Reduction of the Threshold for Laser Fusion using
Nonlinear Force Driven Plasma Blocks

Journal of Fusion Energy, 2009, Vol. 28, p304-313, A. Talaei and S.M. Sadat Kiai
Study the Influence of the Bank Energy on the Dynamical Pinch in Plasma Focus

Journal of Fusion Energy, 2009, Vol. 28, p323-327, H. Mehrban, M. Vaezzadeh and M.
Saeidi
Calculation of Nano-Charged Particles Pulsation Frequency in Tokamak

Optics Communications, 2009, Article in press, *H. Hora, **G.H. Miley, ***M.
Ghorannevis, ****B. Malekynia and **N. Azizi
* Department of Theoretical Physics, University of New South Wales, Sydney, Australia
** Department of Nuclear, Plasma and Radiological Engineering, University of Illinois
*** Plasma Physics Research Center, Islamic Azad University, Tehran, Iran
Laser-Optical Path to Nuclear Energy without Radioactivity: Fusion of Hydrogen-Boron
by Nonlinear Force Driven Plasma Blocks

Journal of Physics B, 2009, Vol. 42, 125602, *M.H. Mahdih, *R. Fazeli and **G.J. Tallents

*Department of Physics, Iran University of Science and Technology, Namark, Tehran, Iran

**Department of Physics, University of York, York, UK

Soft X-Ray Enhancement from a Porous Nano-Layer on Metal Targets Irradiated by Long Laser Pulses

Materials Science Related Research

Thesis:

B. Rezaei, Thesis (M.S.), Chemistry Department of the University of Esfahan, 1989
Design and Construction of an Electrolysis Cell for Production of Fluorine

M. Ahmadi, Thesis (M.S.), Sharif University of Technology, Tehran, Department of Mechanical Engineering, January 1993
Preparation of Uranium Trioxide Powder from Uranyl Nitrate Solution in a Fluidized Bed Reactor

M. Tohidi, Thesis (M.S.), Shiraz University, 2005
Design of New Optode for the Determination of Uranyl Ion

Conference Papers:

6th Iranian Chemical and Chemical Engineering Conference, September 1991, Tehran, H. Ghafourian
New Method for the Determination of Rhenium

6th Iranian Seminar on Analytical Chemistry, Baolsar, Iran, April 1995, H. Ghafourian and H. Foroutan
Quantity and Quality Analysis of Holmium (Ho) and Rare Earth Elements by Complexometry

4th Iranian Conference of Chemical Engineering, 1998, Sharif University, Tehran, Iran, F. Rashidi and S.A. Hashemi
Fluorspar Production from Acidic Wastes Containing Fluorine

5th National Iranian and 4th International Chemical Engineering Congress, April 24-7, 2000, Iran, F. Rashidi and R. Ranjbar
A Mechanism for Production of Calcium Fluoride from Acid Phosphoric Wastes

Industrial Minerals Fluorspar 2001 Conference, Johannesburg, South Africa, March 25-27, 2001, M.A. Hadavi
Iranian Fluorspar – An Emerging Force

2nd International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran,
April 27-30, 2004, M. Habashi Zadeh
Zirconium Production Plant and its Progress

4th Aegean Analytical Chemistry Days, Kusadasi, Turkey, September 29 – October 3,
2004, A.R. Ghiaasvand
A New Simple and High-Performance Homogenous Liquid-Liquid Extraction Method

9th Iranian Chemical Engineering Congress, Tehran, Iran, November 23-5, 2004, M.
Jahansaz and T. Kaghazchi
Extraction of Magnesium Compounds from Dolomite Rocks Using Leaching Process
Pressurized under Carbon Dioxide

9th Iranian Chemical Engineering Congress, Tehran, Iran, November 23-5, 2004, A.
Khanchi, S. Fatemi, M. Firouzezare, and S.M. Kalantari
Separation of Hafnium from Zirconium by Ion Exchange Chromatography Method and
Comparison of this Method Properties with other Methods

Azad University, Central Branch of Tehran, Iran, 2006, H. Arjmandi, M. Mehrjouye and
O. Arjmandi
Investigation of Different Methods for Magnesium Extraction and Production

Journal Articles:

Journal of Chemical and Engineering Data, 1976, Vol. 21, p446-, F.M. Farhan and H.
Nedjat
The Ternary System: Water-Zirconyl Nitrate-Zirconyl Chloride at 0^oC

Mineralogy and Petrology, 1977, Vol. 24, p151-60, *H. Khalili
Mineralogical and Geochemical Investigations of Some Pegmatites from the Mashad
Area, Northeastern Iran
*worked performed at Department of Earth Sciences, University of Leeds, UK; now at
Department of Geology, Ferdousi University, Mashad, Iran

Talanta, 1978, Vol. 25, p569-72, A.G. Gharib
Determination of Re in Geological Materials by RNAA

Radiochemica Acta, 1980, Vol. 27, p35-8, A.G. Gharib
Determination of Ge and Sn in Geological Materials by RNAA

Mineralogical Magazine, 1980, Vol. 43, p820-2, A.G. Gharib
Distribution of La, Eu, Ge, Sn, P, and S in Nickeliferous Lateritic Profiles

Scientific Bulletin of the Atomic Energy Organization of Iran, 1991, Vol. 10, p11-23,
A.A. Hosseini
Development of a Scientific Basis for Design of Intermetallic Alloys for High-
Temperature Structural Uses

Corrosion Science, 1993, Vol. 35, p565-570, M.A. Golazar and A.R. Riahi
The Blistering Phenomenon in Zirconium and Zirconium Alloys

Nukleonika, 1994, Vol. 39, p129-36, H. Rahimi, N. Rahimi, and F. Ashtiani
Gaseous Tritium Light Source Manufacturing

Analytica Chimica Acta, 1996, Vol. 328, p33-9, M.H. Pournaghiazar and R. Zargharian
Adsorptive Pulse Determination of Uranium(VI) Oxinate in Chloroform and its use for
the Analysis of Uranium Mineral Ores

Scientific Bulletin of the Atomic Energy Organization of Iran, 1998, Vol. 15, p15-24, F.
Asgarizadeh and M.M. Ghanadi
Determination of Uranium Enrichment Using Low Energy X and Gamma Rays

Scientific Bulletin of the Atomic Energy Organization of Iran, 1998, Vol. 18, p9-17, A.A.
Hosseini, H. Mansuri and R. Mahmudi
Casting and Irradiation Studies of 8001 Series of Aluminum Alloys for Nuclear Research
Reactor Structural Applications

Scientific Bulletin of the Atomic Energy Organization of Iran, 1999, Vol. 19, p51-8, A.A.
Hosseini and H. Bayati
Determination of Beryllium Content in Several Mineral Samples from an Iranian Mine
Using ICP-OES and XRD Techniques

Analytical Chemistry, 1998, Vol. 70, p5259-63, M.R. Ganjali, A. Moghimi, and M.
Shamsipur
Beryllium-Selective Membrane Electrode Based on Benzo-9-Crown-3

Journal of Nuclear Science and Technology (AEOI), 2001, Vol. 23, S. Fatourehchian
Evaluation of Coke Microstructure and its Effect on Graphite Fabrication

Analytica Chimica Acta, 2001, Vol. 434, p23-7, M. Shamsipur, M.R. Ganjali, A.
Rouhollahi, and A. Moghimi
Beryllium-Selective Membrane Sensor Based on 3,4-di[2-(2-Tetrahydro-2H-
pyranoxy)]ethoxy Styrene-Styrene Copolymer

Analytica Chimica Acta, 2001, Vol. 437, p17-22, A. Afkhami, T. Madrakian, A.A. Assl,
and A.A. Sehat
Solid Phase Extraction Flame Atomic Absorption Spectrometric Determination of Ultra-
Trace Beryllium

Journal of Nuclear Science and Technology (AEOI), 2002, Vol. 24, S. Fatoorechchian, F. Ahari Hashemi and S. Ahmadi
Determination of Empirical Relation between Dynamic Young's Modulus and Thermal Expansion Coefficient for Nuclear Grade Graphite

Talanta, 2002, Vol. 56, p375-81, Y. Yamini, J. Hassan, R. Mohandesi, and N. Bahramifar
Preconcentration of Trace Amounts of Beryllium in Water Samples on Octadecyl Silica Cartridges Modified by Quinalizarine and its Determination with Atomic Absorption Spectrometry

Iranian Journal of Science and Technology B, 2002, Vol. 26, p299-306, V. Taghikhani, H. Modarres, and J.H. Vera
Activity Coefficients of Individual Ions

Main Group Metals Chemistry, 2002, Vol. 25, p663-7, M.R. Ganjali, A. Daftari, M.R. Pourjavidi, M.F. Rastegar, and A. Moghimi
Novel Be(II) Membrane Electrode Based on a Derivative of Benzo-9-Crown-3

Talanta, 2002, Vol. 57, p807-12, A. Abbaspour and L. Baramakeh
Dual-Wavelength beta-Correction Spectrophotometry for Selective Determination of Zr

Analytical Sciences, 2002, Vol. 18, p1127-30, A. Abbaspour and L. Baramakeh
Simultaneous Determination of Zirconium and Molybdenum by First-Derivative Spectrophotometry

Industrial and Engineering Chemical Research, 2002, Vol. 41, p2512-20, A.M. Dehkordi
Experimental Investigation of an Air-Operated Two-Impinging-Streams Reactor for Copper Extraction Processes

Journal of Nuclear Science and Technology (AEOI), 2003, Vol. 27, F. Ahari Hashemi and S. Fatoorechchian
Investigation of Coal Tar Pitch Impregnation Effects in Improving Graphite Properties

Journal of Nuclear Science and Technology (AEOI), 2003, Vol. 28, K. Fatemi, S. Fatoorechchian, F. Ahari Hashemi and S. Ahmadi
Measurement and Investigation of Effects of Coal tar Pitch Fractions in Nuclear Graphite Properties

Analytical Letters, 2003, Vol. 36, p317-28, M.R. Ganjali, A. Daftari, M.F. Rastegar, and A. Moghimi
Novel Beryllium Membrane Sensor Based on 2,4-Dinitrophenylhydrazinebenzo-9-Crown-3 Coated Graphite

Analytical Sciences, 2003, Vol. 19, p353-6, M.R. Ganjali, A. Daftari, M. Faal-Rastegar and A. Moghimi
Novel Potentiometric Sensor for Monitoring Beryllium Based on Naphto-9-Crown-3

Journal of Sciences, Islamic Republic of Iran, 2003, Vol. 14, p239-45, H. Faghihian, A. Malekpour, and M.G. Maragheh
Modification of Clinoptilolite by Surfactants for Molybdate (^{99}Mo) Adsorption from Aqueous Solutions

Iranian Journal of Radiation Research, 2004, Vol. 2, p1-6, F. Abbasiziar, T. Hosseini, A. Fathivand and Gh. Heravi
Determination of Uranium Isotopes (^{234}U , ^{238}U) and Natural Uranium (U-Nat) in Water Samples by Alpha Spectroscopy

Desalination, 2004, Vol. 169, p21-31, T. Mohammadi, A. Moheb, M. Sadrzadeh, and A. Razmi
Separation of Copper Ions by Electrodialysis Using Taguchi Experimental Design

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 31, K. Fatemi, F. Ahari Hashemi, S. Fatoorechchian and F. Farahzadi
The Impurities Removal from Petroleum Cokes by Acid Leaching and Theoretical Investigations of its Effects on Nuclear Graphite Properties

Electroanalysis, 2004, Vol. 16, p282-8, M. Shamsipur, A. Soleymanpour, M. Akhond, and H. Sharghi
New Macrocyclic Diamides as Neutral Ionophores for Highly Selective and Sensitive PVC-Membrane Electrodes for Be^{2+} Ion

Sensors and Actuators B: Chemical, 2004, Vol. 100, p315-9, M.R. Ganjali, M. Ghorbani, P. Norouzi, A. Daftari, M. Faal-Rastegar, and A. Moghimi
Nano Levels Detection of Beryllium by a Novel Beryllium PVC-Based Membrane Sensor Based on 2,3,5,6,8,9-Hexahydro-1,4,7,10-Benzotetra Oxacyclododecine-12-carbaldehyde-12-(2,4-dinitrophenyl)hy

Talanta, 2004, Vol. 63, p899-906, M.R. Ganjali, M. Rahimi-Nasrabadi, B. Maddah, A. Moghimi, M. Faal-Rastegar, S. Borhany, and M. Namazian
Sub-Micro Level Monitoring of Beryllium Ions with a Novel Beryllium Sensor Based on 2,6-Diphenyl-4-Benzo-9-Crown-3

Electroanalysis, 2004, Vol. 17, p719-23, M.B. Gholivand and H.R. Nassab
Highly Selective Adsorptive Cathodic Stripping Voltammetric Determination of Uranium in the Presence of Pyromellitic Acid

Journal of Radioanalytical and Nuclear Chemistry, 2004, Vol. 262, p305-10, A.A.M. Sharif, H. Ghafourian, A. Ahmadiniar, S. Waqif Husian and M. Saber-Tehrani
The Effects of High Amounts of Chlorine and Sodium on Measurement of Aluminum by Instrumental Neutron Activation Analysis and Decrease of Spectral Noises by Means of Digital Low Pass Filter Equations

Analytical Sciences, 2004, Vol. 20, p1711-5, A. Afkhami and A.R. Zarei
Simultaneous Kinetic Determination of Beryllium and Aluminum by Spectrophotometric
H-Point Standard Addition Method

Talanta, 2004, Vol. 64, p62-6, M.B. Gholivand, N.H. Rashidi and H. Fazeli
Cathodic Adsorptive Stripping Voltammetric Determination of Uranium(VI) Complexed
with 2,6-Pyridinedicarboxylic Acid

Electronic Journal of Biology, 2005, Vol. 1, p76-80, T. Faez, M.S. Yaghmaee and S.
Sarkar

The State of Art and Possible new Applications of Nano/Meso Porous Silica Aerogel
Analytica Chimica Acta, 2005, Vol. 531, p55-60, S. Afsaneh and M. Bagheri
A Novel Sensor for Uranium Determination

Journal of Materials Science and Technology, 2005, Vol. 21, p239-42, E. Keshavarz
Alamdari, S.K. Sadrezhaad, and Z. Mos-Hefi Shabestari
Chloroform Aided Extraction Spectrophotometric Determination of Rhenium Using
Thiocyanate Complexing Agent

Journal of Sciences (Islamic Azad University), 2005, Vol. 56, p233-49, A. Niazi, A.
Yazdanipour and N. Ghasemi
Genetic-Algorithm-Based Wavelength Selection in Spectrophotometric Simultaneous
Determination of Uranium and Thorium using Partial Least Squares Regression

Physica B: Condensed Matter, 2005, Vol. 358, p247-55, S.M. Baizee and A. Pourghazi
Ab Initio Calculation of Electronic Structure and Electric Field Gradient in Pu_3Sn and
 PuSn_3

Electroanalysis, 2005, Vol. 17, p895-900, M.R. Ganjali, V. Akbar, P. Norouzi, A.
Moghimi, and A. Sepehrifard
Be(II) Graphite Coated Membrane Sensor Based on a Recently Synthesized Benzo-9-
Crown-3 Derivative

Chemical Engineering and Technology, 2005, Vol. 28, p892-8, S.S. Madaeni and H.R.K.
Zand
Selective Transport of Bismuth Ions through Supported Liquid Membrane

Spectrochimica Acta A, 2005, Vol. 61, p2988-94, T. Madrakian, A. Afkhami, M.
Borazjani, and M. Bahram
Partial Least-Squares Regression for the Simultaneous Determination of Aluminum and
Beryllium in Geochemical Samples using Xylenol Orange

Bulletin of the Chemical Society of Japan, 2006, Vol. 79, p67-74, M.M. Papari, D.
Mohammad-Aghaie, J. Moghadasi, and A. Boushehr
Semi-Empirically Based Assessment for Predicting Dilute Gas Transport Properties of F_2
and Ar- F_2 Fluids

Ceramics International, 2006, Vol. 32, p313-9, B. Hashemi, Z.A. Nemati and M.A. Faghihi-Sani
Effect of Resin and Graphite Content on Density and Oxidation Behavior of MgO-C Refractory Bricks

Journal of Colloid and Interface Science, 2006, Vol. 298, p419-25, S. Shariati and Y. Yamini
Cloud Point Extraction and Simultaneous Determination of Zirconium and Hafnium using ICP-CES

Journal of Nuclear Science and Technology (AEOI), 2006, Vol. 36, p49-54, M. Baninajarian, M. Ravanbod and M. Aghahoseni
Investigation and Determination of Trace Amounts of Chloride in Zirconium with Turbidimetric and Nephelometric Methods

Microchimica Acta, 2006, Vol. 154, p221-8, H. Karami, M.F. Mousavi, Y. Yamini, and M. Shamsipur
On-Line Solid Phase Extraction and Simultaneous Determination of Hafnium and Zirconium by ICP-Atomic Emission Spectroscopy

Spectrochimica Acta A, 2006, Vol. 64, p477-82, A. Abbaspour and L. Baramakeh
Application of Principle Analysis-Artificial Neural Network for Simultaneous Determination of Zirconium and Hafnium in Real Samples

Turkish Journal of Chemistry, 2006, Vol. 30, p711-21, H.R. Poureted, A. Semnani, and M.H. Keshavarz
Cerium (III) Ion-Selective Electrodes Based on 1,4,7-Trithiacyclononane

Journal of the Iranian Chemical Society, 2006, Vol. 3, p253-7, H. Sepehrian, A.R. Khanchi, M.K. Rofouei, and S. W. Husain
Non-Thermal Synthesis of Mesoporous Zirconium Silicate and its Characterization

Journal of the Brazilian Chemical Society, 2006, Vol. 17, p1020-6, A. Niazi
Spectrophotometric Simultaneous Determination of Uranium and Thorium using Partial Least Squares Regression and Orthogonal Signal Correction

Analytica Chimica Acta, 2007, Vol. 589, p22-32, M. Shamsipur, F. Mizani, M.F. Mousavi, N. Alizadeh, K. Alizadeh, H. Eshghi and H. Karami
A Novel Flow Injection Potentiometric Graphite Coated Ion-Selective Electrode for the Low Level Determination of Uranyl Ion

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 38, 18-24, S. Naderi, R. Sarraf Mamoozy and N. Riahi Noori
Investigation of Effective Parameters in Preparation and Controlling Lithium Fluoride Nano Size Powder

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 38, p42-8, F.A. Hashemi and S. Fatoorehchian
Consideration and Indirect Method for the Determination of the Percentage of Porosity with Utilizing Variety of Densities in the Structures of Graphites

Journal of Physics D: Applied Physics, 2007, Vol. 40, p1047-51, J. Sabbaghzadeh, S. Dadras and M.J. Torkamany
Comparison of Pulsed Nd:YAG Laser Welding Qualitative Features with Plasma Plume Thermal Characteristics

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 41, p44-9, K. Saberyan, S. Raygan, A. Movahhedian and S.A. Hosseini Semnani
The Effect of Temperature and Gas Flow Rate on the Carbochlorination Process of ZrO₂

Materials Science and Engineering, 2008, Vol. 486, p1-7, H. Najafi, J. Rassizadehghani and S. Asgari
As-Cast Mechanical Properties of Vanadium/Niobium Microalloyed Steels

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 43, p56-60, R. Sadighi, M.A. Ghaderi, K. Rajabi, M.R. Karami and M.Y. Hashemi
Production of High Purity Graphite

Applied Radiation and Isotopes, 2008, Vol. 66, p158-61, A. Moussavi-Zarandi
Determination of Beryllium by Photonuclear Activation Techniques

Journal of Nuclear Science and Technology, (AEOI) 2008, Vol. 45, D. Agha Aligol, M.R. Ketabdari, P. Oliyai, A. Baghizadeh, F. Shokouhi, M. Lamahi Racht, M. Farmahini Farahani and M. Moradi
Determination of Uranium Ores Composition using Scanning Proton Microscope

Reprocessing and Separation Science Studies

Documents/Reports:

EE009 Fuel Dept AEOI Separation of Technetium from Waste
H. Ghafourian 1991

EX031 Purification of U from Anomaly 2 Saghand by Solvent
Extraction Method
H. Ghafourian 1992
AEOI Fuel & Ore Dressing Department

LE017 Hydrometallurgical Investigation of U in Anomalies 2,5,
and 6 in Saghand Area
H. Ghafourian 1992
AEOI Fuel & Ore Dressing Department

EX032 Separation of U from Saghand Anomaly 2 by Precipitation
Methods

H. Ghafourian 1992
AEOI Fuel & Ore Dressing Department

RS001 Radiometric Sorting of Saghand Anomalies 1,2,5, and 6
and Bandar Abbas Anomaly Land 6

H. Ghafourian 1992
AEOI Fuel & Ore Dressing Department

LE019 Separation of Cl from U Ores with High Chloride Content

H. Ghafourian 1993
AEOI Fuel & Ore Dressing Department

LE023 Separation of Cl-Ion from Esfordi Apatite

H. Ghafourian 1993
AEOI Fuel & Ore Dressing Department

EX026 Ore Ion Exchange Behavior of Synthetic and Natural
Zeolite

H. Ghafourian 1993
AEOI Fuel & Ore Dressing Department

EX033 Concentration and Purification of U Anomaly 2 Saghand
by Ion Exchange

H. Ghafourian 1993
AEOI Fuel & Ore Dressing Department

LE021 Ore Dressing of U in Anomaly 1 Saghand

H. Ghafourian 1994
AEOI Fuel & Ore Dressing Department

LE022 Investigation of Different Apatite

H. Ghafourian 1994
AEOI Fuel & Ore Dressing Department

Thesis:

M. Kalbasi, Thesis (PhD), University of Bradford, UK, 1980
Extraction of Uranium with TBP in an Electrostatic Apparatus

M.R. Sangi, Thesis (M.S.), Tehran University, Department of Chemistry, January 1991
Separating Cesium-137 from Liquid Radioactive Wastes by Using Inorganic Exchangers
Using Static and Dynamic Processes at Various Concentration of Nitric Acid and Sodium
Nitrate

K. Nazari, Thesis (M.S.), Amirkabir Technical University, December 1993
Recovery of Uranium from Phosphoric Acid by Liquid-Liquid Extraction Procedure

M. Tabassi, Thesis (M.S.), Amirkabir Technical University, Department of Physics,
Tehran, Iran, January 1994
Determination of the Distribution Coefficient of Uranium in Two Phase Systems

M.R. Ghaderi, Thesis (M.S.), Tehran University, 1999
The Processing of Wastes in Talmesi and Meskani Mines

J. Safdari, Thesis (M.S.), Tehran University, 2001
Study of Hydrodynamic and Mass Transfer Parameters in Pulsed Sieve-Plate Columns

M. Kalantari, Thesis (M.S.), 2005, University of Tehran, 2005
Investigation of Zr(IV) and Hf(IV) Separation from Aqueous Solution by Ion Exchange Chromatographic Method

H.F. Zarnagh, Thesis (M.S.), University of Tehran, 2006
Modeling and Effective Parameters Estimation in Separation of Zirconium and Hafnium Cations by Ion Exchange Resin

Patents:

DE3821295 Method for Separating Technetium, Ruthenium, and
Palladium from Solutions of Nuclear Fuels

H. Ghafourian, Abdel Ali Sameh, and J. H. Ache
Kernforschungsz Karlsruhe 1989

DE3843887 Separating Uranium and Plutonium by Solvent Extraction
H. Ghafourian, Abdel Ali Sameh, and J. H. Ache
Kernforschungsz Karlsruhe 1990

Conference Papers:

11th International Conference on Solid State Nuclear Track Detectors, Bristol, UK, 1981,
S.R. Hashemi-Nezhad
Determination of U-Content of Uranium-Bearing Veins and Inclusions

International Conference on Nuclear and Radiochemistry (INCR '86), Beijing, China,
1986, M. Nourmand
Stability Constants of Uranium (VI) and Thorium (IV) Complexes with Some Alpha-
Amino-Acids

2nd International Conference on Nuclear and Radiochemistry, Brighton, UK, July 1988,
New Method for Separation of Ru from Waste Residue

International Symposium on Nuclear Techniques in the Exploration and Exploitation of Energy and Mineral Resources, Vienna, Austria, 1990, M. Sohrabpour, V. Zarifian, and K. Kamali Moghadam

Design and Testing of a Laboratory Borehole Facility for Simulation of Neutron Capture Gamma Rays

Proceedings of the 2nd International Conference on Hydrometallurgy, Changsha, China, 1992, A.G. Gharib, J. Kamali, and M. Movasaghi

Development of a New Process Flow Sheet for an Iranian Ore Containing Sodium Chloride

3rd International Conference on Nuclear Radiochemistry, September 1992, H. Ghafourian NDNA for Separation of Rhenium

International Conference on Nuclear Tracks in Solids, Beijing, China, September 7-11, 1992, H. Afarideh

Uranium Content and Age Determination of Various Minerals of Iran

The Final Report on Lecture and Design of Ion Exchange Column, CNNC, China, 1993, H. Ghafourian (Technical Coordinator) and Chen Shaoqiang

3rd International Conference on Methods and Applications of Radioanalytical Chemistry, Hawaii, April 1994, H. Ghafourian and H.J. Ache

New Method for Concentration and Measurement of Technetium from Waste Water

95th General Meeting of the American Society for Microbiology, Washington, DC, May 1995, H. Ghafourian, F. Malekzadeh, and A. Farazmand

Microbial Accumulation of Uranium

9th International Conference on Modern Trends in Activation Analysis, Seoul, Korea, September 1995, H. Ghafourian and A. Farazmand

New Microbial MGF-48 for Accumulation of Uranium from Waste

International Conference on High Levels of Natural Radiation, Beijing, China, 1996, I. Bayat

Determination of Naturally Occurring Radionuclides in Liquid Wastes from Mining and Milling

International Conference on Uranium Extraction: Progress in Uranium Extraction and Related Environmental Protection, Beijing, China, 1996, *J.I. Skorovarov, *L.I. Rusin, *A.V. Lomonosov, **H. Ghafourian, **A. Hashemi, and **H. Movasaghi

*All-Russian Research Institute of Chemical Technology, Moscow

**Fuel and Beneficiation Department, Atomic Energy Organization of Iran

Development of Uranium Extraction Technology from Phosphoric Acid Solutions with Extractant PN-1200

4th International Chemical Engineering Conference, 1998, M. Kalbasi and P.J. Bailes
Investigation into Extraction of Uranium with Tributyl Phosphate in an Electrostatic Apparatus

ISEC 2002: International Solvent Extraction Conference, March 17-21, 2002, Cape Town, South Africa, E.K. Alamdari, D. Darvishi, S.K. Sadrnezhad, Z.M. Shabestari, A. O'Hadizadeh, and M. Akbari
Effect of TBP as a Modifier for Extraction of Zinc and Cadmium with a Mixture of DEHPA and MEHPA

Congress of Chemistry of Azad University in Cooperation with Louis Pasteur University, April 10-1, 2002, M.R. Yaftian, A.A. Zamani and A. Afshari
Study of the Transport of Eu (III) Ion through a Liquid Membrane Containing Tri-n-Octylphosphine Oxides

Congress of Chemistry of Azad University in Cooperation with Louis Pasteur University, April 10-1, 2002, M.R. Shishahbore
Heap Leaching Procedure for Uranium Extraction

Zeolite 02 Conference, June 3 -7, 2002, Thessaloniki, Greece, H. Faghihian, A. Malekpour, and M.Ghannadi Maragheh
Sorption of Radioactive Molybdate Anion by Iranian Natural and Modified Zeolites

Specialist Meeting on Regulatory Approaches for the Control of Environmental Residues Containing Naturally Occurring Radioactive Material, Vienna, Austria, September 23-7, 2002, M.H. Mallah, H. Kazemian, H. Ghasemi, M. Abbas and N. Maleki
Evaluation of the Removal of Uranium Ion from Nuclear Wastes by Means of Some Zeolitic Exchangers (Preliminary Results)

International Conference on Nuclear Science and Technology in Iran, April 27-30, 2004, D. Paki and V. Mehrannia
Determination of As (III) and As (V) in Uranium Leach Liquor

International Conference on Nuclear Science and Technology in Iran, April 27-30, 2004, K. Mirjalili, M. Roshani and H. Babaie
Amines and Organophosphorus as Arsenic Extractants, a Determining Step towards Uranium Ion Exchange Resin Preservation during Yellow Cake Production

International Conference on Nuclear Science and Technology in Iran, April 27-30, 2004, M. Davari, M.S. Ghoreishi Nejad, K. Nazari, A. Jabbari Rad, and M. Ghandi Maragheh
Study of Synergistic Method for the Extraction of U (VI) from Nitric Acid Solutions

International Conference on Nuclear Science and Technology in Iran, April 27-30, 2004, B.A.E. Samani and S. Savafi
Description of UCF Project

9th Iranian Chemical Engineering Conference, Iran University of Science and Technology, November 23-25, 2004, A. Khanchi, S. Fatemi, M. Firouzezare and M. Kalantari
Separation of Hafnium from Zirconium by Ion Exchange Chromatography Method and Comparison of this Method Properties with other Methods

International Conference on Nuclear Science and Technology in Iran, Mashhad, February 22-3, 2006, H. Ghasemi, H. Kazemian, A. Malekinejad, and M.R. Pakzad
Uranium Recovery from Zeolite Loaded with Uranyl Nitrate

11th National Iranian Chemical Engineering Conference, Tarbiat Modarres University, November 28-30, 2006, A. Nilchi, A.A. Babaluo and R. Rafiee
Sorption of Cesium and Cobalt from Simulated Waste by PAN Based Hexacyanoferrates

Proceedings of the International Conference on Mineral Processing Technology with Focus on Industrial Minerals and Their Processing for Value Addition, Mumbai, India, February 22-4, 2007, M. Akbari, H. Babaie and M. Alamdar
Recovery of Uranium from Refractory Metals

International Conference on Nuclear Science and Technology in Iran, March 7-8, 2007, A. Faghihian, A. Nezamzadeh and M. Ghanaddi-Maragheh
Thermodynamic Parameters for Absorption of Ce and Th by Zeolite A Synthesized by a Natural Zeolite

Journal Articles:

Cellular and Molecular Life Sciences, 1971, Vol. 27, p607-8, M. Qureshi, W. Husain, and F. Khan
Separation of Metal Ions on Inorganic Ion-Exchange Papers

Experientia, 1972, Vol. 28, p988-9, S.W. Husain and S. K. Kazmi
Thin Layer Chromatography of Metal Ions on a New Synthetic Inorganic Ion-Exchanger

Quarterly Bulletin of the Faculty of Science, Tehran University, 1973, Vol. 5, p95-103, A. Owlya
Solvent Extraction of Potassium Permanganate by Pure Tributyl Phosphate and its Physicochemical Properties

Chromatographia, 1974, Vol. 8, p277-82, S.W. Husain and F. Eivazi
Thin Layer Chromatography of 57 Metal Ions on an Inorganic Ion-Exchanger in Mixed Solvent Systems

Memoirs of the Faculty of Engineering, Tehran University, 1974, Vol. 28, M. Sohrabi and T. Kaghazchi
Dynamics of Solvent Extraction Equipments

Memoirs of the Faculty of Engineering, Tehran University, 1974, Vol. 29, M. Sohrabi and T. Kaghazchi
General Solution for Multi-Stage Counter Current Separation Problems

Quarterly Bulletin of the Faculty of Science, Tehran University, 1975, Vol. 7, p15-20, A. Owlya
The Nitrate Complexes of Cerium (III) in Tri-n-Butyl Phosphate

Talanta, 1975, Vol. 22, p601-4, S.W.Husain and M.D. Charandabi
Anion-Exchange Behavior of Several Elements in Systems Containing Formic Acid

Quarterly Bulletin of the Faculty of Science, Tehran University, 1975, Vol. 7, p12-8, M. Fairar
Fast Method of Radiochemical Separation of Niobium from the Mixture of Different Fission Products

Mikrochimica Acta, 1978, Vol. 1, p11-8, S.W. Husain and S. Rasheedzad
Thin-Layer Chromatography Separation of Platinum Metals on a Semi-Crystalline Inorganic Ion-Exchanger

Technical Bulletin of the Atomic Energy Organization of Iran, 1982, Vol. 2, p60-75, M.R. Espahbod
Review of the Radioactive Materials and Uranium Mineralization in the Salt Plugs of Southern Iran (Gachin and Ghalat Salt Plugs)

Polyhedron, 1982, Vol. 1, p826-7, M. Nourmand, I. Bayat, and S. Yousefi
The Determination of the Stability Constants of Uranyl and Thorium with Aminopolycarboxylic Acids

Separation Science and Technology, 1982, Vol. 17, p935-43, S.W. Husain, Rasheedzad, J.L. Manzoori and Y. Jabbari
Synthesis and Ion-Exchange Properties of Lanthanum Tungstate: A New Inorganic Ion Exchanger

Journal of Radioanalytical and Nuclear Chemistry, 1984, Vol. 84, p239-46, W.S. Husain, M. Ghannadi-Marageh and S. Rasheedzad
Synthesis and Ion Exchange Properties of Cerium(IV) Selenite

Iranian Journal of Science and Technology, 1986, Vol. 10, p167-73, S.W. Husain
Distribution Coefficients of Twenty-Nine Elements on Cation-Exchange Resin in Formic Acid – Organic Solvent Mixtures

Journal of Radioanalytical and Nuclear Chemistry, 1986, Vol. 99, p331-5, H. Movaseghi
Method of Separating Uranium from Iron and Thorium

Scientific Bulletin of the Atomic Energy Organization of Iran, 1986, Vol. 5, p11-8, M.S. Emami
Geochemical and Hydrogeochemical Study of Gowarchin Syncline for Uranium Exploration

Scientific Bulletin of the Atomic Energy Organization of Iran, 1986, Vol. 5, p27-36, M.R. Espahbod
Uranium and Copper Mineralization in Iran

Scientific Bulletin of the Atomic Energy Organization of Iran, 1988, Vol. 7, p1-22, I. Bayat and M. Soltani
Determination of Stability Constants of Cerium and Transuranium Elements with Aminopolycarboxylic Acids

Uranium, 1988, Vol. 4, p411-4, H. Movaseghi
Solvent Extraction Kinetics of Uranium and Molybdenum

Journal of Planar Chromatography – Modern TLC, 1989, Vol. 2, p474-6, S.W. Husain
Thin-Layer Chromatography of Metal Ions on an Ion-Exchanger – Stannic Silicate

Scientific Bulletin of the Atomic Energy Organization of Iran, 1991, Vol. 10, p67-84, H. Gafourian
Separation of Noble Metals Ruthenium and Palladium using Completing Agents

Applied Radiation and Isotopes, 1992, Vol. 43, p859-62, S.W. Husain, M. Ghannadi Marageh and A.R. Khanchi
Use of Radionuclides in Cation-Exchange Studies of Elements in Mixed Systems

Applied Radiation and Isotopes, 1993, Vol. 44, p745-9, S.W. Husain
Radionuclides Sorption on Lanthanum Silicate: A New Ion Exchanger

Analytica Chimica Acta, 1996, Vol. 328, p33-9, M.H. Pournaghi-Azar and R. Zargharian
Adsorptive Pulse Polarographic Determination of Uranium (VI) Oxinate in Chloroform and Its Use for the Analysis of Uranium Mineral Ores

Journal of Planar Chromatography – Modern TLC, 1996, Vol. 14, p586-91, S.W. Husain
Thin Layer Chromatography of Metal Ions on Cerium (III) Silicate: A New Ion-Exchanger

Applied Radiation and Isotopes, 1996, Vol. 47, p501-5, M.G. Marage
Sorption Studies of Radionuclides on a New Ion Exchanger: Cerium (III) Silicate

Chromatographia, 1997, Vol. 45, p347-50, S.W. Husain
Chromatographic Separation of Inorganic Ions on Thin Layers of Lanthanum Silicate Ion Exchanger

Scientific Bulletin of the Atomic Energy Organization of Iran, 1997, Vol. 13, p53-67, H. Ghafourian, F. Malekzadeh, and A. Farazmand
Uranium and Heavy Metals Separation by a New Bacterium MGF-48

Scientific Bulletin of the Atomic Energy Organization of Iran, 1997, Vol. 14, p53-61, A. Hashemi and H. Movaseghi
Development of Uranium Extraction from Phosphoric Acid Solutions with Extractant PN-1200

Journal of Membrane Science, 1998, Vol. 144, p57-64, *M.R. Yaftian, *M. Burgard, **C.B. Dieleman, and **D. Matt
*Laboratoire de Chimie Minerale et Analytique, CNRS, ECPM Universite Louis Pasteur, Strasbourg, France
**Groupe de Chimie Inorganique Moleculaire, CNRS, ECPM Universite Louis Pasteur, Strasbourg, France
Rare-Earth Metal-Ion Separation using a Supported Liquid Membrane Mediated by a Narroq Rim Phosphorylated Calix[4]arene

Talanta, 1998, Vol. 46, p123-8, D. Dojozan
Preconcentration of Trace Uranium from Seawater with Solid Phase Extraction Followed by Differential Pulse Polarographic Determination in Chloroform Eluate

Scientific Bulletin of the Atomic Energy Organization of Iran, 1998, Vol. 18, p46-56, K. Fatemi
Uranium Extraction from High Content Chlorine Leach Liquor

Scientific Bulletin of the Atomic Energy Organization of Iran, 1998, Vol. 17, p44-56, H. Ghafourian, A.M. Latifi, and F. Malekzadeh
Study for Optimization of Uranium Absorption by a New Bacterium MGF-48

Separation Science and Technology, 1999, Vol. 34, p219-29, S.W. Husain
Separation of Ions on Columns of Cerium (IV) Silicate, a New Ion Exchanger

Applied Radiation and Isotopes, 1999, Vol. 50, p459-65, M.G. Marageh, S.W. Husain and A.R. Khanchi
Selective Sorption of Radioactive Cesium and Strontium on Stannic Molybdophosphate Ion Exchanger

Journal of Chemical Research, 1999, Vol. 9, p586-, H.S. Amoli, M. Rajabi and F. Mohanazadeh
Separation and Spectrophotometric Determination of Uranium in Caspian Sea Water

Separation Science and Technology, 1999, Vol. 34, p1833-43, A. Nilchi
Properties, Ion-Exchange Behavior, and Analytical Applications of Cerium Phosphate Cation Exchangers Suitable for Column Use

- Journal of Radioanalytical and Nuclear Chemistry, 1999, Vol. 241, p139-43, M.G. Maragheh
Sorption of Radionuclides on Cerium (IV) Molybdophosphate Ion Exchanger
- Journal of Nuclear Science and Technology (AEOI), 2000, Vol. 20, S.J. Safdari, H. Bahmanyar and D. Bastani
Effect of the Operating Parameters on Pressure Drop and Flooding Velocities in Pulsed-Perforated Plate – Columns
- Hydrometallurgy, 2000, Vol. 55, p327-41, E.K. Alamdari and S.K. Sadrnezhaad
Thermodynamics of Extraction of MoO_4^{2-} from Aqueous Sulfuric Acid Media with TBP Dissolved in Kerosene
- Separation Science and Technology, 2000, Vol. 35, p1011-19, M. Shamsipur
A Rapid Method for the Extraction and Separation of Uranium from Thorium and Other Accompanying Elements Using Octadecyl Silica Membrane Disks Modified by Tri-n-Octyl Phosphine Oxide
- Separation Science and Technology, 2000, Vol. 35, p1939-49, M.R. Rezvanianzadeh, Y. Yamini, A.R. Khanchi, P. Ashtari, and M.M. Maragheh
Highly Selective and Efficient Membrane Transport of Molybdenum using Di(2-Ethylhexyl)Phosphoric Acid as Carrier
- Journal of Radioanalytical and Nuclear Chemistry, 2000, Vol. 245, p589-94, A. Nilchi, M. Ghanadi Maragheh and A. Khanchi
Characteristics of Novel Types of Substituted Cerium Phosphates
- Journal of the Faculty of Engineering, University of Tehran, 2000, Vol. 34, p11-22, H. Bahmanyar, S.J. Safdari, D. Bastani, M.M. Ghannadi and M.A. Saeli
Investigations of the Internal Circulation Inside Drops in Designing Pulsed Sieve-Plate Extractor Columns
- Journal of Nuclear Science and Technology (AEOI), 2000, Vol. 21, M.R. Ghaderi, B.A. Samani and M. Ovilazadeh
Ore Processing of Heaps Samples from Talmesi and Meskani Mines; Anark Ore District
- Journal of the Chinese Institute of Chemical Engineers, 2001, Vol. 32, p35-45, M. Sobrabi, T. Kaghazchi and A. Molaei
A New Air Operated Contractor for Liquid-Liquid Extraction
- Journal of Nuclear Science and Technology (AEOI), 2001, Vol. 23, p72-6, A. Hashemi and M. Roshani
Resin-in-Pulp Method for Uranium Separation from Leached Ore

Journal of Nuclear Science and Technology (AEOI), 2001, Vol. 22, p31-7, H. Ghafourian, A.M. Latifi, and F. Maleksadeh
Adsorption and Concentration of Uranium by a New Species of Bacillus Bacterium MGL-75

Journal of Nuclear Science and Technology (AEOI), 2001, Vol. 23, p17-24, M. Kiaii and B. Samani
Preliminary Investigation of Ore Processing of U, Th, Rare Earth Elements and Fe-Bearing Ore Minerals From Anomaly No. 5 of Sag Hand Ore Field, Applying Electrophorus Method

Metallurgical and Materials Transactions B, 2001, Vol. 32, p5-10, S.K. Sadrnezhad and E.K. Alamdari
Thermodynamics of Extraction of ReO_4^- from Aqueous Sulfuric Acid Media with Tri-n-Butyl Phosphate Dissolved in Kerosene

Journal of Supercritical Fluids, 2001, Vol. 20, p163-9, M. Shamsipur, A.R. Ghiasvand, and Y. Yamini
Extraction of Uranium from Solid Matrices Using Modified Supercritical Fluid CO_2

Chemical and Engineering Technology, 2001, Vol. 24, p173-, M. Sohrabi, T. Kaghazchi and A. Molaei
Application of an Air Operated Impinging Streams Contractor in Liquid-Liquid Extraction

Canadian Journal of Chemical Engineering, 2001, Vol. 24, 501-, M. Sohrabi
Application of an Air Operated Two Impinging Steams extractor in Liquid-Liquid Extraction and Comparison with Other Contractor Types

Journal of Nuclear Science and Technology (AEOI), 2001, Vol. 23, p29-37, K. Saberyan, M.M. Ghanadi, H. Ashtari and H. Nejat
Liquid-Liquid Extraction of Molybdenum (VI) From Acidic Media with Cyanex-301

Journal of Nuclear Science and Technology (AEOI), 2001, Vol. 23, A. Nilchi, M. Ghannadi Maragheh and A. Khanchi
Properties, Ion-Exchange Behavior and Analytical Applications of Cerium Phosphate Cation Exchangers Suitable for Column Use

Journal of Nuclear Science and Technology (AEOI), 2002, Vol. 25, p16-28, P. Rahnama, N. Vaghefi, and A.R. Assadi
Regional Evaluation and Selection of Target Areas for Uranium in Central Iran Using Gigs

Journal of Nuclear Science and Technology (AEOI), 2002, Vol. 25, p39-47, M. Noaparast, B. Samani, and R. Asgari
Uranium and Copper Processing of Dochan Deposit by Column and Rotating Bottle Leaching

Journal of Nuclear Science and Technology (AEOI), 2002, Vol. 25, p48-55, K. Fatemi and M. Madadi
Separation of Chloride Ion from Leach Liquor and Its Effect on Uranium Analysis Followed by Solvent Extraction

Journal of Nuclear Science and Technology (AEOI), 2002, Vol. 25, p68, A. Nilchi, A. Khanchi, and M. Ghanadi Maragheh
The Importance of Cerium Substituted Phosphates as Cation Exchanger: Some Unique Properties and Related Application Potential

Journal of Sciences, Islamic Republic of Iran, 2002, Vol. 13, p75-80, M.F. Rahimi, H. Peyrovan, and A. Izadpanah
Measurement of D₂O in Water using $^2\text{H}(\gamma, n)^1\text{H}$ Reaction

Separation Science and Technology, 2002, Vol. 37, p481-92, M. Shamsipur and F. Raouli
Separation Study of Strontium through a Bulk Liquid Membrane Containing Decyl-18-Crown-6

Talanta, 2002, Vol. 56, p383-93, A. Nilchi, A. Khanchi and M. Ghanadi Maragheh
The Importance of Cerium Substituted Phosphates as Cation Exchanger - Some Unique Properties and Related Application Potentials

Talanta, 2002, Vol. 58, p237-46, M. Sahamsipur, A. Soleymanpour, M. Akhoud, H. Sharghi, and A.R. Massah
Uranyl-Selective PVC Membrane Electrodes Based on Some Recently Synthesized Benzo-Substituted Macrocyclic Diamides

Industrial and Engineering Chemistry Research, 2002, Vol. 41, p5842-5847, M. Arjomand, M.M. Akbarnejad and H. Hossein
Structural Catalytic Packing for Reaction-Distillation Columns

Journal of Nuclear Science and Technology, 2002, Vol. 25, p0, M. Noupast, R. Asgari and B. Samani
Uranium and Copper Processing of Dochan Deposit by Column and Rotating Bottle Leaching

Journal of Radioanalytical and Nuclear Chemistry, 2002, Vol. 254, p545-50, H. Faghihian and M.A. Mackizadeh
Adsorption of Radioactive Iodine by Two Natural Zeolites

AIChE Journal, 2002, Vol. 48, p2230-39, A.M. Dehkordi
Liquid-Liquid Extraction with Chemical Reaction in a Novel Impinging-Jets Reactor

World Journal of Microbiology and Biotechnology, 2002, Vol. 18, p599-602, *F. Malekzadeh, *A.M. Latifi, **M. Shahamat, **M. Levin, and **R.R. Colwell
*University of Tehran
**University of Maryland, Biotechnology Institute
Effects of Selected Physical and Chemical Parameters on Uranium Uptake by the Bacterium Chryseomonas MGF-48

Iranian Journal of Nuclear Science and Technology, 2002, Vol. 25, p0, P. Rahnema, N. vaghefi and A.R. Assadi
Regional Evaluation and Selection of Target Areas for Uranium in Central Iran using GIS

Chemical Engineering and Technology, 2002, Vol. 25, p1087-94, *H. Bahmanyar and **M.J. Slater*Chemical Engineering Department, University of Tehran, Iran
**Department of Chemical Engineering, University of Bradford, UK
Assessment of a New Type of Liquid-Liquid Extraction Column

Hydrometallurgy, 2003, Vol. 68, p11-21, K. Rezaei and H. Nedjate
Diluent Effect on the Distribution Ratio and Separation Factor of Ni (II) in the Liquid-Liquid Extraction from Aqueous Acidic Solutions Using Dibutyldithiophosphoric Acid

Journal of Nuclear Science and Technology (AEOI), 2003, Vol. 26, p61-8, M. Madnejad, A. Alaghband, and N. Nozari
Application of Laboratory Column Leaching Tests in Heap Leaching Technique

Journal of Nuclear Science and Technology (AEOI), 2003, Vol. 28, p1-7, H. Ghafourian, H.S. Rafiee, M.M. Tehrani, A. Ahmadi, and A. Nafar
Feasibility for Separation of Stable and Radioisotope of Molybdenum Isotopes with Bio-Filter Using Microorganism

Journal of Nuclear Science and Technology (AEOI), 2003, Vol. 29, p31-8, K. Fatemi
Extraction of Uranium from Anomali Ores No. 1, 6, and 8 in salt Domes of Bandar Abbas Region using Column Leaching by Seawater in Sulfuric Acid Medium

Radiation Physics and Chemistry, 2003, Vol. 66, p167-77, A. Nilchi, A. Khanchi, M. Ghanadi Maragheh and A. Bagheri
Investigation of the Resistance of Some Naturally Occurring and Synthetic Inorganic Ion Exchangers against Gamma Radiation

Separation and Purification Technology, 2003, Vol. 31, p261-8, M.R. Yaftian, L. Hassanzadeh, M.E. Eshraghi and D. Matt
Solvent Extraction of Thorium (IV) and Europium (III) Ions by Diphenyl-N,N-Dimethylcarbamoylmethylphosphine Oxide From Aqueous Nitrate Media

Iranian Journal of Chemistry and Chemical Engineering, 2003, Vol. 22, p71-6, M.R. Yaftian, M.E. Eshraghi and L. Hassanzadeh
Extractive Properties of Tri-n-Octylphosphine Oxide towards Thorium (IV) and Europium (III) Ions in Aqueous Nitrate Media

Journal of Sciences, Islamic Republic of Iran, 2003, Vol. 14, p239-45, H. Faghihian, A. Malekipour, and M.G. Maragheh
Modification of Clinoptilolite by Surfactant for Molybdate ⁹⁹Mo Adsorption from Aqueous Solutions

Adsorption Science and Technology, 2003, Vol. 21, p373-81, H. Faghihian, A. Malekpour, and M.G. Maragheh
Removal of Radioactive Iodide by Surfactant-Modified Zeolites

Minerals Engineering, 2003, Vol. 16, p391-3, K. Saberyan, M. Ghannadi Maragheh, P. Ashtari and S.K. Alamdari
Liquid-Liquid Extraction of Molybdenum (VI) from Acidic Media with Cyanex-301

Analytical and Bioanalytical Chemistry, 2003, Vol. 375, p698-702, S. Sadeghi, D. Mohammadzadeh, and Y. Yamini
Solid-Phase Extraction-Spectrophotometric Determination of Uranium (VI) in Natural Waters

Separation and Purification Technology, 2003, Vol. 3, p261-8, M.R. Yaftian, L. Hassanzadeh, and D. Matt
Solvent Extraction of Thorium (IV) and Europium (III) Ions by Diphenyl-N,N-Dimethylcarbonylmethylphosphine Oxide from Aqueous Nitrate Media

Sulfur, Silicon and the Related Elements, 2003, Vol. 178, p1225-30, *M.R. Yaftian, *R. Taheri, and **D. Matt
*Zanjan University, Zanjan, Iran
**Universite Louis Pasteur, Strasbourg, France
Lower-RIM Polyphosphorylated Calix[4]arenes. Their Use as Extracting Agents for Thorium (IV) and Europium (III) Ions

Journal of Radioanalytical and Nuclear Chemistry, 2003, Vol. 258, p457-62, A. Nilchi, B. Malek, M. Ghanadi and A. Khanchi
Exchange Properties of Cyanide Complexes: Part I. Ion Exchange of Cesium on Ferrocyanides

Radiation Physics and Chemistry, 2003, Vol. 68, p837-42, A. Nilchi, B. Malek, M. Ghanadi Maragheh and A. Khanchi
Investigation of the Resistance of the Potassium Copper Nickel Hexacyanoferrate (II) Ion Exchanger against Gamma Radiation

Journal of Nuclear Science and Technology (AEOI), 2004, Vol. 30, M.R. Nikgofatr, A. Bahrami and A. Shoja
Optimization of Spacing between Explosion Holes in Advancing Shafts of Uranium Mine in Saghand

Journal of Nuclear Science and Technology (AEOI), 2004, Vol. 30, p37-48, M.E. Hekmation
Software Package Preparation Entitled: QuantInt, to be used for Quantitative Interpretation of Magnetic and Gravitational Data and Ore Sample Interpretation Exploration of Uranium

Journal of Nuclear Science and Technology (AEOI), 2004, Vol. 30, p49-55, M.R. Nikgofatr, A. Bahrami, and A. Shoja
Optimization of Spacing between Explosion Holes in Advancing Shafts of Uranium Mine in Saghand

Journal of Nuclear Science and Technology (AEOI), 2004, Vol. 30, p57-63, K. Saberyan and M.M. Ghanadi
Novel Method for Stripping of Molybdenum (VI) after Its Extraction Cyanex-301

Journal of Nuclear Science and Technology (AEOI), 2004, Vol. 31, p9-12, H. Ghafourian, M. Rabbani, Y. Naseri, and S. Sadeghi
Producing Bio-Filter for Absorbing and Separating Stable Nickel and Feasibility Study to Separate Radioactive Nickel by Microorganisms

Journal of Nuclear Science and Technology (AEOI), 2004, Vol. 31, p29-34, N.A. Noruozi, M.T. Tahmaseb Nezami, D. Jamali, and Y. Ghanbari
Evaluation of Sampling from Borehole of Khoshomi Uranium Exploration Area with Geostatistics

International Journal of Engineering, 2004, Vol. 17, p7-17, B. Bastani
Stage Wise Modeling of Liquid-Extraction Column (RDC)

AIChE Journal, 2004, Vol. 48, p2230-2239, A.M. Dehkordi
Liquid-Liquid Extraction with Chemical Reaction in a Novel Impinging-Jets Reactor

Journal of the Iranian Chemical Society, 2004, Vol. 1, p79-87, A.M. Abdallah, M.A. Kabil, M.A. Akl and D.S. Ismael
Simultaneous Preconcentration Flotation-Separation and Spectrophotometric Determination of Thorium, Lanthanum and Yttrium in Some Geologic and Environmental Samples

Journal of Polymeric Materials, 2004, Vol. 21, p315-20, M.J. Zohuriaan-Mehr, A. Pourjavadi and M. Salehi-Rad
Modified CMC. Part 3. Novel Carboxymethyl Cellulose-g-Poly(Acrylamidoxime) as a New Metal Absorbent

Hydrometallurgy, 2004, Vol. 71, p371-77, K. Nazari, M. Ghannadi Maragheh and A. Jabbari Rad

Studies on Extraction of Uranium from Phosphoric Acid Using PN-1200 Extractant

Bulletin of the Korean Chemical Society, 2004, Vol. 25, p629-33, M. Shamsipur, M. Saedi, A. Yari, A. Yaganeh-Faal, M.H. Mashhadizadeh, G. Azimi, H. Naeimi, and H. Sharghi

UO₂⁺ Ion-Selective Membrane Electrode Based on a Naphthol-Derivative Schiff's Base 2,2'-[1,2-Ethandiyl bis (nitriloethylidene)] bis(1-naphthalene)

Minerals Engineering, 2004, Vol. 17, p89-92, E. Keshavarz Alamdari, D. Morandkhani, D. Darvishi, M. Askari and D. Behnian

Synergistic Effect of MEHPA on Co-Extraction of Zinc and Cadmium with DEHPA

IJE Transactions B: Applications, 2004, Vol. 17, p191-200, S.K. Sadrnezhad and E. Keshavarz Alamdari

Thermodynamics of Extraction of Zn²⁺ from Sulfuric Acid Media with a Mixture of DEHPA and MEHPA

Separation and Purification Technology, 2004, Vol. 40, p115-21, A. Zamani and M.R. Yaftian

Solvent Extraction of Thorium, Lanthanum and Europium Ions by Bis(2-Ethylhexyl)Phosphoric Acid Using 2-Nitrobenzo-18-Crown-6 as Ion Size Selective Masking Agent

Journal of Radioanalytical and Nuclear Chemistry, 2004, Vol. 261, p393-400, A. Nilchi, M. Ghanadi Maragheh, A. Khanchi, M.A. Farajzadeh and A.A. Aghaei
Synthesis and Ion-Exchange Properties of Crystalline Titanium and Zirconium Phosphates

Adsorption Science and Technology, 2004, Vol. 22, p707-17, H. Faghihian, M.G. Marageh, M.K. Amini, and A.R. Nezamzadeh

Thorium Ion Uptake by Zeolite A Synthesized from Natural Clinoptilolite Tuffs

Analytical Sciences, 2004, Vol. 20, p917-9, A.R. Ghiasvand and E. Mohagheghzadeh
Homogenous Liquid-Liquid Extraction of Uranium (VI) Using Tri-n-Octylphosphine Oxide

Reactive and Functional Polymers, 2004, Vol. 61, p23-31, M.J. Zohuriaan-Mehr, A. Pourjavadi and M. Salehi-Rad

Modified CMC. 2. Novel Carboxymethylcellulose-Based Poly(9Amidoxime) Chelating Resin with High Metal Sorption Capacity

Journal of Radioanalytical and Nuclear Chemistry, 2004, Vol. 262, Vol. 455-9, *M.R. Yaftian, *R. Taheri, *A.A. Zamani, and **D. Matt

*Zanjan University, Zanjan, Iran

**Universite Louis Pasteur, Strasbourg, France

Thermodynamics of the Solvent Extraction of Thorium and Europium Nitrates by Neutral Phosphorylated Ligands

Iranian Journal of Chemical Engineering, 2005, p10-24, H. Abolghasemi, M.A.

Moosavian, H. Bahmanyar and M. Ghanadi Maragheh

The Effects of Operational Parameters on the Efficiency of a Mixer-Settler Extractor

Analytica Chimica Acta, 2005, Vol. 530, p55-60, A. Safavi and M. Bagheri

A Novel Optical Sensor for Uranium Determination

Iranian Polymer Journal, 2005, Vol. 14, p131-8, M.J. Zohuriaan-Mehr, A. Pourjavadi and M. Sadeghi

Modified CMC. 1. Optimized Synthesis of Carboxymethyl Cellulose-g-Polyacrylonitrile

Hydrometallurgy, 2005, Vol. 77, p227-38, D. Darvishi, D.F. Haghshenas, E. Keshavarz Alamdari, S.K. Sadrnezhad, and M. Halali

Synergistic Effect of Cyanex 272 and Cyanex 302 on Separation of Cobalt and Nickel by D2EHPA

Physica B: Condensed Matter, 2005, Vol. 358, p247-55, S.M. Baizee and A. Pourghazi

Ab Initio Calculation of Electronic Structure and Electric Field Gradient in Pu_3Sn and PuSn_3

Journal of Radioanalytical and Nuclear Chemistry, 2005, Vol. 264, p577-82, H.

Faghihian, M.K. Amini, and A.R. Nezamzadeh

Cerium Uptake by Zeolite A Synthesized from Natural Clinoptilolite Tuffs

Analytical and Bioanalytical Chemistry, 2005, Vol. 382, p1159-62, M. Shamsipur, J.

Tashkhourian, and H. Sharghi

Development of a PVC-Membrane Ion-Selective Bulk Optode, for UO_2^{2+} Ion, Based on Tri-n-Octylphosphine Oxide and Dibenzoylmethane

Materials Engineering, 2005, Vol. 18, p1233-38, K. Nazari, A. Ghadiri, and H. Babaie

Elimination of Cadmium from Wet Process Phosphoric Acid with Alamine 336

Analytical Letters, 2005, Vol. 38, p1813-21, M.R. Ganjali, L.H. Babaei, P. Norouzi,

M.R. Pourjavadi, A. Badiei, K. Saberyan, M.G. Maragheh, M.S. Niasari, G.M. Ziarani

Novel Method for the Fast Separation and Purification of Molybdenum (VI) from Fission Products of Uranium with Aminofunctionalized Mesoporous Molecular Sieves (AMMS)

Modified by Dicyclohexyl-18-Crown-6 and SN Tetradentate Schiff's Base

Iranian Journal of Crystallography and Mineralogy, 2005, Vol. 13, p329-36, H. Kazemian, K. Ghaffari and M. Noorian
Synthesis and Characterization of Zeolite A, using Fly Ash of the Iran ferrosilice Company and Investigating its Properties

Separation and Purification Technology, 2005, Vol. 40, p2527-37, F. Shemirani, R.R. Kozani, M.R. Jamali, Y. Assadi, and S.M.R. Milani
Micelle Mediated Extraction for Direct Spectrophotometric Determination of Trace Uranium (VI) in Water Samples

Separation and Purification Technology, 2005, Vol. 41, p73-82, M. Toraj, M. Ahmad, S. Mohtada, and R. Amir
Modeling of Metal Ion Removal from Wastewater by Electrodialysis

Separation and Purification Technology, 2006, Vol. 49, p71-5, M.R. Yaftian, A.A. Zamani, and S. Rostamnia
Thorium (IV) Ion-Selective Transport through a Bulk Liquid Membrane Containing 2-Theonyltrifluoroacetone as Extractant-Carrier

Journal of Nuclear Science and Technology (AEOI), 2006, Vol. 36, p19-26, K. Nazari and R. Mahmoudi
Separation of Uranium from Anomaly No. 60 Khoshoomi Region Leaching Solution

Electronic Journal of Biotechnology, 2006, Vol. 9, p100-06, M.H. Khani, A.R. Keshtkar, B. Meysami, M.F. Zarea, and R. Jalali
Biosorption of Uranium from Aqueous Solutions by Nonliving Biomass of Marine Algae *Cystoseira Indica*

Journal of the Iranian Chemical Society, 2006, Vol. 3, p253-7, H. Sepehrian, M.K. Rofouei and S.W. Husain
Non-Thermal Synthesis of Meso Porous Zirconium Silicate and its Characterization

Radiation Physics and Chemistry, 2006, Vol. 75, p301-8, A. Nilchi, B. Maalek, A. Khanchi, M. Ghanadi Maragheh and A. Bagheri
Cerium (VI) Molybdate Cation Exchanger: Synthesis, Properties and Ion Separation Capabilities

Journal of Radioanalytical and Nuclear Chemistry, 2006, Vol. 267, p685-90, R. Yavari, A.R. Khanchi, M.G. Maragheh, and S. Waqif-Husain
Sorption of Radionuclides on Thorium Tungstophosphate: A New Inorganic Ion-Exchanger

Journal of Radioanalytical and Nuclear Chemistry, 2006, Vol. 269, p223-5, M. Sadeghi, B. Shirazi, and N. Shadanpour
Solvent Extraction of No-Carrier-Added ^{103}Pd from Irradiated Rhodium Target with Alpha-Furyldioxime

Iranian Journal of Chemistry and Chemical Engineering, 2006, Vol. 25, p9-15, H. Abolghasemi, M.A. Mousavian S.R. Radpour
The Effects of a Surfactant Concentration on the Mass Transfer in a Mixer-Settler Extractor

Journal of the Brazilian Chemical Society, 2006, Vol. 17, p1020-26, A. Niazi
Spectrophotometric Simultaneous Determination of Uranium and Thorium Using Partial Least Squares Regression and Orthogonal Signal Correction

Canadian Journal of Chemical Engineering, 2006, Vol. 84, p375-80, M.M. Montazer-Rahmati, S.J. Safdari and H. Akhgari
Dependence of Holdup on Height in a Pulsed Plate Column Based on Binary Liquid-Liquid Equilibrium Data

Journal of Hazardous Materials, 2006, Vol. A137, p1271-6, A. Nilchi, A. Khanchi, H. Atashi, A. Bagheri, and L. Nematollahi
The Application and Properties of Composite Sorbents of Inorganic Ion Exchangers and Polyacrylonitrile Binding Matrix

Journal of Radioanalytical and Nuclear Chemistry, 2006, Vol. 270, p357-61, *M.R. Yaftian, *M.R. Razipour, and **D. Matt
*Zanjan University, Zanjan, Iran
**Universite Louis Pasteur, Strasbourg, France
Extraction of Thorium (IV) and Europium (III) by a Phosphorylated Calix[4]arene in Dichloromethane

Quarterly Journal of Applied Chemistry, 2007, Vol. 3, p37-9, M. Monsefi, N. Vaziri and A. Hojabri
Optimized Chemical Precipitation of Strontium-90 from Radioactive Waste Solutions

Hydrometallurgy, 2007, Vol. 85, p17-23, M. Mozammel, S.K. Sadrnezhad, E. Badami, and E. Ahmadi
Breakthrough Curves for Adsorption and Elution of Rhenium in a Column Ion Exchange System

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 39, p42-6, G. Nozad, M. Asgari and M. Ghannadi Maragheh
Cathodic Adsorptive Stripping Voltametric Determination of Uranium(VI) Complexed with Citrate

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 39, p47-53, M.R. Jamalifar
Catalytic Destruction of Spent Dowex Cation Exchange Resin, using Hydrogen Peroxide

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 40, p47-52, M.R. Ghaderi, Nezami Tahmaseb and E. Jamili
Grade Estimation of the Khoshomi Uranium Prospect by Applying Logging Data and XRF Analytic Results

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 41, p15-20, E. Torabian, Aga Jan Pour and M.J. Daraei
Geology and Mineralization Studies of Radioactive Minerals in Bafgh-Saghand Metallogenic Zone (Zarigan)

Journal of Chemical Engineering of Japan, 2007, Vol. 40, p17-25, H. Bahmanyar, F. Ghasempour and J. Safdari
Dispersed Phase Hold-Up in a Vertical Mixer Settler in With and Without Mass Transfer Conditions

Iranian Journal of Chemistry and Chemical Engineering, 2007, Vol. 26, p61-71, F. Shohreh, F. Zarnagh, H. Kalantari, M.S. Zeynab
Ion Exchange Column Performance Model for Separation of Zr(IV) and Hf(IV) in Elution Process

Geosciences, 2007, Vol. 17, p100-07, M. Pakdel, B. Rezaei, R. Asgari and K. Nazari
Feasibility Study of Khushoomi Uranium Ore Concentration with Magnetic and Electrostatic Methods

Journal of Hazardous Materials, 2007 May 10, Epub ahead of print, M.H. Khani, A.R. Keshtkar, M. Ghannadi and H. Pahlavanzadeh
Equilibrium, Kinetic and Thermodynamic Study of the Biosorption of Uranium onto *Cystoseria Indica* Alage

Journal of Radioanalytical and Nuclear Chemistry, 2007, Vol. 273, p141-5, A.R. Khanchi, R. Yavari, and S.K. Pourazarsa
Preparation and Evaluation of Composite Ion-Exchanger for the Removal of Cesium and Strontium Radioisotopes

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 43, p41-9, M. Pkadel, B. Rezaei, R. Asgari and K. Nazari
Characterization and Determination of Liberation Degree of Khoshoomi Uranium Ore (Block 1)

Bulletin of the Korean Chemical Society, 2008, Vol. 29, p94-8, K. Saberyan, M. Shamsipur, E. Zolfonoun and M. Salavati-Niasari
Liquid-Liquid Distribution of the Tetravalent Zirconium, Hafnium and Thorium with a New Tetradentate Naphthol-Derivative Schiff Base

Radiochimica Acta, 2008, Vol. 96, p105-9, H. Sepehrian, R. Yavari, M. Ghannadi Maragheh and S.W. Husain
Sorption of Radionuclides on Mesoporous Sn(IV) Silicate: A New Sorbent

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 44, p1-8, A.R. Khanchi, H. Rafati and M.R. Rezvaniyanzadeh
Recovery of Some Rare Earth Elements from Leach Liquor of the Saghand Uranium Ore using Combined Precipitation and Cation Exchange Methods

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 44, p19-23, A. Nilchi, G. Abolhasanloo, M.R. Yaftian and G. Rasouli
Synthesis and Investigation of Hydrous Cerium Oxide Exchange Properties for ^{140}Ba and ^{90}Sr Cations – Determination of Distribution Coefficient for ^{152}Eu and ^{134}Cs cations

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 44, p40-4, A. Ghadiri, A. Hajati, A.H. Alaghsband, R. Asgari and A. Valivand
Design of Thickener for Separation of Acidic Leach Liquor from Residual Solid Particles from Bandar Abbas Uranium Plant

The Journal of Supercritical Fluids, 2008, Vol. 44, p148-54, H.S. Ghaziaskar and M. Kaboudvand
Solubility of Trioctylamine in Supercritical Carbon Dioxide

Journal of Radioanalytical and Nuclear Chemistry, 2008, Vol. 275, p145-53, H. Sepehrian, M. Ghannadi-Maragheh, S. Waqif-Husain, R. Yavari and A.R. Khanchi
Sorption Studies of Radionuclides on a Modified Mesoporous Cerium(IV) Silicate

Analytica Chimica Acta, 2008, Vol. 607, p183-90, A. Beiraghi and S. Babaei
Separation and Preconcentration of Ultra Trace Amounts of Beryllium in Water Samples using Mixed Micelle-Mediated Extraction and Determination by Inductively Coupled Plasma-Atomic Emission Spectrometry

Journal of Radioanalytical and Nuclear Chemistry, 2008, Vol. 275, p427-32, M.K. Mahani, M. Chaloosi, A.R. Khanchi, M. Ghannadi Maragheh, B. Salami and F. Asgharizadeh
A New Method for Simultaneous Determination of ^{226}Ra and Uranium in Aqueous Samples by Liquid Scintillation Using Chemometrics

Hydrometallurgy, 2008, Vol. 90, p115-20, M. Taghizadeh, R. Ghasemzadeh, S.N. Ashrafizadeh, K. Saberyan and M. Ghannadi Maragheh
Determination of Optimum Process Conditions for the Extraction and Separation of Zirconium and Hafnium by Solvent Extraction

Separation Science and Technology, 2008, Vol. 43, p597-608, A.B. Monji, S.J. Ahmadi and E. Zolfonoun

Selective Biosorption of Zirconium and Hafnium from Acidic Aqueous Solutions by Rice Bran, Wheat Bran and Platanus Orientalis Tree Leaves

Journal of Hazardous Materials, 2008, Vol. 150, p612-8, M.H. Khani, A.R. Keshtkar, M. Ghannadi and H. Pahlavanzadeh

Equilibrium, Kinetic, and Thermodynamic Study of the Biosorption of Uranium onto *Cysteria indica* Algae

Journal of Radioanalytical and Nuclear Chemistry, 2008, Vol. 278, p97-102, M.H.

Mallah, F. Shemirani and M. Ghannadi Maragheh

Use of Dispersive Liquid-Liquid Microextraction for Simultaneous Preconcentration of Samarium, Europium, Gadolinium and Dysprosium

Journal of University of Science and Technology Beijing, Mineral, Metallurgy, Material, 2008, Vol. 15, p367-374, E. Jorjani, A.H. Bagherieh, S. Mesroghli and S.C. Chelgani

Prediction of Yttrium, Lanthanum, Cerium, and Neodymium Leaching Recovery from Apatite Concentrate using Artificial Neural Networks

Journal of Hazardous Materials, 2008, Vol. 153, p695-700, T. Madrakian and F. Ghazizadeh

Cloud-Point Preconcentration and Spectrophotometric Determination of Trace Amounts of Molybdenum(VI) in Steels and Water Samples

Journal of Hazardous Materials, 2008, Vol. 158, p583-590, S. Shariati, Y. Yamini and M.K. Zanjani

Simultaneous Preconcentration and Determination of U(VI), Zr(IV) and Hf(IV) Ions in Aqueous Samples using Micelle-Mediated Extraction Coupled to Inductively Coupled Plasma-Optical Emission Spectrometry

Chinese Journal of Chemistry, 2008, Vol. 26, p2067-2072, K. Saberyan, A.H. Meysami, F. Rashchi and E. Zolfonoun

Proposal of a New Hf(IV)/Zr(IV) Separation System by the Solvent Extraction Method

Energy, 2009, Vol. 34, p14-21, A. Niksiar and A. Rahimi

Energy and Energy Analysis for Concurrent Gas Spray Cooling Systems based on the Results of Mathematical Modeling and Simulation

Drying Technology, 2009, Vol. 27, p30-9, A. Rahimi and A. Niksiar

Application of Markov Chain Analysis and Tanks-in-Series Model in Mathematical Modeling for Impinging Stream Dryers

Journal of Nuclear Science and Technology, 2009, Vol. 46, p33-42, M. Yazdi, K. Khoshnoodi, M. Kavand and A.R. Ashteyani
Stream-Sediment Geochemical Exploration for Uranium in Narigan Area Central Iran

Mineral Processing and Extractive Metallurgy Review, 2009, Vol. 30, p260-268, M. Taghizadeh, R. Ghasemzadeh, M. Ghandai Maragheh and S.N. Ashrafizadeh
Crud Formation in the Solvent Extraction System Zr(IV), HNO₃-D2EHPA

Chemical Engineering Science, 2009, Vol. 64, p618-9, A. Niksiar and A. Rahimi
On the Validity of the Rate Expression of Calcination Reaction of UO₃ Reported by Dussoubs et al. (2003)

World Academy of Science, Engineering and Technology, 2009, Vol. 55, p137-139, S. Ghaffari Tooran, H. Abolghasemi, H. Bahmanyar, M. Esmaeili and A. Safari
A New Correlation for Overall Sherwood Number in Packed Liquid-Liquid Extraction Column

Mineral Processing and Extractive Metallurgy Review, 2009, Vol. 30, p260-268, M. Taghizadeh, R. Ghasemzadeh, M. Ghanadi Maragheh and S.N. Ashrafizadeh
Crud Formation in the Solvent Extraction System Zr(IV), HNO₃-D2EHPA

Iranian Journal of Chemistry and Chemical Engineering, 2009, Vol. 28, p85-93, F. S. Gharehbagh and S.M.A. Mousavian
Hydrodynamic Characterization of Mixer-Settlers in Extraction of Zirconium with TBP

Journal of the Taiwan Institute of Chemical Engineers, 2009, Vol. 40, p302-312, F.S. Gharehbagh and S.M.A. Mousavian
Hydrodynamic Characterization of Mixer-Settlers

Chemical Engineering and Processing: Process Intensification, 2009, Vol. 48, p1105-1111, A. Khakpay, H. Abolghasemi and A. Salami-Khorshidi
The Effects of a Surfactant on Mean Drop Size in a Mixer-Settler Extractor

Isotope Production and Separation

Deuterium:

Thesis:

M. Ahmadi, Thesis (M.S.), Amirkabir University of Technology, July 1999
Optimizing Design Parameter for Light Isotopes Separation by Distillation Method

Conference Papers:

International Conference on Nuclear Science and Technology in Iran, Shiraz, Iran, April 27-30, 2004, A.G. Gharib
The Importance of Heavy Water in Nuclear Technology

International Conference on Nuclear Energy and Sustainable Development, Tehran, Iran March 5-6, 2005, M. Madadi
Factors Affecting the Process of Selection and Design of the Arak Heavy Water production Plant

Journal Articles:

Nuclear Technology, 1997, Vol. 120, p149-57, *D.A. White, *S. Assabumrungrat, and **A. Moheb

Optimization of Electrolytic Plants for Deuterium Production: Steady-State Analysis
*Department of Chemical Engineering and Chemical Technology, Imperial College of Science, Technology, and Medicine, London, UK
**now at Faculty of Chemical Engineering, Isfahan University of Technology, Isfahan, Iran

Research Bulletin of Isfahan University (Science), 2001, Vol. 14, p11-20, M. Mostajab-Al-Davati
Radioisotope Production Calculations in Neutronic Design of Heavy Water Research Reactor

Pakistan Journal of Analytical Chemistry, 2003, Vol. 4, p81-5, A. Mobinikhaledi
H/D Exchange in Diazine Ligands Coordinated to Co(III) and Their Related Quaternized Salts in Alkaline D₂O Solution using NMR Spectroscopy – A Case for Comparison

Iranian Journal of Chemistry and Chemical Engineering, 2004, Vol. 23, p51-9, M. Kheradmand and E. Esmailzadeh
Numerical Study of Gas Absorption into Liquid Film on the Inside Wall of a Pipe

Cyclotron Related Isotope Production Studies:

Documents/Reports:

H. Afarideh and I. Al Jammaz, Technical Report Series No. 432, IAEA, Vienna, 2004
Standardized High Current Solid Targets for Cyclotron Production of Diagnostic and Therapeutic Radionuclides

Thesis:

N. Shadanpour, Thesis (M.S.), September 1993
Description of Cyclotron-30 Particle Accelerator

B. Akbari, Thesis (M.S), August 1995, All-Union Research Institute for Power Plant, Moscow
Production of Tl^{201} and Ga^{67} Radiopharmaceuticals by Cyclotron

B. Akbari, Thesis (M.S.), All-Union Research Institute for Power Plant, Moscow, August 1995
Production of Tl^{201} and Ga^{67} Radiopharmaceuticals by Cyclotron

Conference Papers:

Particle Accelerator Conference, Washington, DC, May 17-20, 1993, H. Ayvazian
A New Design for an EMIS-Cyclotron System, for Direct Production of Gaseous PET Radioisotopes

Proceedings of the 14th International Conference on Cyclotrons and their Applications, Cape Town, South Africa, 1995, S.M. Hadjii-Saied, H. Afarideh and A. Amirbadi
The NRCAM Cyclotron Facility

Proceedings of the 14th International Conference on Cyclotrons and their Applications, Cape Town, South Africa, 1995, S.M. Hadjii-Saied, H. Afarideh and A. Amirbadi
Production of ^{67}Ga by Irradiation of Natural Zinc with Deutrons in NRCAM Cyclotron

Proceedings of the 14th International Conference on Cyclotrons and their Applications, Cape Town, South Africa, 1995, S.M. Hadjii-Saied, H. Afarideh and A. Amirbadi
Improving the Energy Resolution of the 30 MeV Cyclotron Proton Using the Designed Achromatic System

International Conference on Cyclotrons and Their Applications, Caen, France, 1998, M. Mirzaei
Production of ^{111}In by Irradiation of Natural Cadmium with Deutrons and Protons in NRCAM Cyclotron

International Conference on Cyclotrons and Their Applications, Caen, France, 1998, A.R. Mahlou
Design and Construction of Control System for Radioisotope Production through Gas Target

Conference on the Applications of Physics and Nuclear Science in Medicine and Industry, Tehran, February 7, 2000, K. Nazari, M. Ghannadi Maragheh, and M. Shamsaiee
A New Method of Separation of ^{131}I

International Nuclear Conference 2002: Global Trends and Perspectives, Kuala Lumpur, Malaysia, October 15-18, 2002, A.R. Ghahremani and R. Javanshire
Production and Quality Control of Ir^{192} for Application in Medicine in Iran

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, A. Sattari, P. Rowshanfarzad, N.K. Dehghan, and N. Shadanpour
Production of ^{64}Cu for Targeted Radiotherapy of Cancer

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, L. Moghaddam-Banaem
Automatic Production of Iodine-123 with PLC/135

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, P.B. Saeidi
Production of ^{186}Re via Cyclotron

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, A.R. Ghahramani and M.R. Ghaahramani
Production of Seed Source ^{125}I for Treatment of Eye and Prostrate Cancer

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, A.R. Ghahremani, H. Ghafourian, and H. Pourbeigi
Production of ^{186}Re for Endovascular Brachytherapy

International Conference on Nuclear Science and Technology in Iran, Shiraz, April 27-30, 2004, P.S. Bidokhti, D. Sardari, B. Fateh and J. Jalilian
Production of ^{186}Re via Cyclotron

Eurasian Conference on Nuclear Science and Its Application, Tashkent, Uzbekistan, October 5-8, 2004, M. Gourani and B. Nabardi
Production of ^{125}I Radioisotope in Sodium Iodide Solution and Its Application

5th International Conference on Isotopes, Brussels, Belgium, April 25-29, 2005, Sattari
Production of Ga-66 from Natural Zinc

International Nuclear Chemistry Congress, Kusadasi, Turkey, May 22-9, 2005, *M. Sadeghi, **H. Afarideh, and ***P. Winkel

*Faculty of Engineering, Islamic Azad University, Tehran

**Nuclear Research Center for Agriculture and Medicine, Karaj

***VUB Cyclotron, Laarbeeklaan, Brussels, Belgium

Electro Dissolution System for Fragmented Electroplated Rhodium Targets used for the Industrial Cyclotron Production of Palladium-103

International Nuclear Energy Congress, Kusadasi, Turkey, May 22-9, 2005, M. Sadeghi, B. Shirazi, and H. Afarideh

Solvent-Solvent Extraction of Carrier Free ^{103}Pd from the Rhodium Irradiated by alpha-Furyl Dioxime

International Symposium on Trends in Radiopharmaceuticals, Vienna, Austria, November 14-18, 2005, A.R. Jalilian, P. Rowshanfarzad, M. Mirzaii, M. Sabet, A. Ziaee and D. Sardari

A Semi-Automated [^{13}N] NH_3 Production Module: Design, Quality Control and Optimization

Journal Articles:

Scientific Bulletin of the Atomic Energy Organization of Iran, 1998, Vol. 17, p31-43, M. Aboudzadeh, H. Afarideh, and S.M. Haji Saeid
Choosing a Suitable Nuclear Reaction in $^{81\text{m}}\text{Kr}$ Radiopharmacy Production

Scientific Bulletin of the Atomic Energy Organization of Iran, 1999, Vol. 19, p34-8, K. Ardaneh, M. Mirzaii, J. Moafian and M. Zakerzadeh
Separation and Purification Chemistry of In-111 Produced in a Cyclotron

Journal of Radioanalytical and Nuclear Chemistry, 2001, Vol. 249, p665-7, S.M. Hadji Saied
Chemical Processing of ^{123}I with a Modified Bio-Rex 5 Resin

Iranian Journal of Radiation Research, 2003, Vol. 1, p51-4, I. Sattari, G. Aslani, M.K. Dehghan, B. Shirazi, M. Shafie, N. Shadanpour, and P.V. Winkel
Dependence of Quality of Thallium-201 on Irradiation Data

Iranian Journal of Radiation Research, 2003, Vol. 1, p119-24, M. Mirzaii, H. Afarideh, S.M. Haji-Saeid, G.R. Aslani and M.R. Ensaf
Production of ^{18}F Fluoride with a High-Current Two Layer Spherical Gold Target

Nukleonika, 2004, Vol. 49, p23-7, M. Mirzali, H. Afarideh, S.M. haji-Saeid, G.R. Salani and M.R. Ensaf
Production of ^{18}F Fluoride with a High-Current Two Layer Spherical Gold Target

Iranian Journal of Radiation Research, 2004, Vol. 2, p45-51, P. Rowshanfarzad, A.R. Falilian and M. Sabet
Simultaneous Production and Quality Control of ^{73}Se and ^{75}Se Radioisotopes in a 30 MeV Cyclotron

Applied Radiation and Isotopes, 2004, Vol.60, p659-63, A.R. Jalilian, P. Rowshanfarzad, H. Afarideh, A. Shafiee, M. Sabet, M. Kyoumars, and G.R. Raisali
Synthesis of ^{75}Se -Ethoxycarbonyl-4-Methyl-1,2,3-Selenadiazole

Journal of Radioanalytical and Nuclear Chemistry, 2004, Vol. 262, p665-72, M. Sadeghi, P. Van den Winkel, H. Afarideh and M. Haji-Saeid
Thick Rhodium Electrodeposition on Copper Backing as the Target for Production of Palladium-103

Iranian Journal of Radiation Research, 2005, Vol. 3, L. Moghadam-Banaem and H. Afarideh
Design of a PLC System for Automatic I-123 Production

Journal of Nuclear Science and Technology (AEOI), 2005, Vol. 32, p49-54, R. Rowshanfarzad, M.T. Bahreyni, H. Afarideh and M. Sabet
Design and Manufacturing of New Target Holders for Solid Targets in IBA-Cyclone 30 Accelerators

Nukleonika, 2005, Vol. 50, p97-103, P. Rowshanfarzad and R. Jalilian
Production and Quality Control of ^{65}Zn Radionuclide

Journal of Radioanalytical and Nuclear Chemistry, 2005, Vol. 265, p455-8, M. sadeghi, H. Afarideh, K. Ardaneh, M. Klyomarsi and M. Mirzali
Crack-Free, Thick, Rhodium Deposition on Copper Substrate Using Rhodex Solution

Alasbimn Journal, 2006, Vol. 8, pAJ31-5, A. Sattari, N. Shadanpoor, G. Aslani, and A. Rahiminejad
Production of Ga-66 from Natural Zinc

Journal of Nuclear Science and Technology (AEOI), 2006, Vol. 35, p51-4, B. Shirazi
Study and Development Recuperation of Thallium-203 from Bombarded Targets of this Metal in Production of Thallium-201 via Addition of Thallium-201 Radioisotope as a Tracer

Radiochimica Acta, 2006, Vol. 94, p217-21, M. Sadeghi, H. Afarideh and P. Van den Winkel
Electroplating/Electrodissolution/Recover Cycle for Rhodium Target used for an Industrial Scale Cyclotron Production of Palladium-103

Applied Radiation and Isotopes, 2006, Vol. 64, p337-41, A.R. Jalilian, P. Rowshanfarzad, M. Sabet, and A. Shafiee
Preparation of ^{61}Cu -2-Acetylpyridine Thiosemicarbazone Complex as a Possible PET Tracer for Malignancies

Annals of Nuclear Energy, 2006, Vol. 33, p786-93, M.K. Marashi, G. Raisali, and F. Bolouri
Investigation of $^{203}\text{Tl}_{81}(\text{p},3\text{n})^{201}\text{Pb}_{82}$ Nuclear Reaction in a Cyclotron Accelerator as a Neutron Source

Applied Radiation and Isotopes, 2006, Vol. 64, p940-7, G. Raisali, N. Hajiloo, S. Hamidi, and G. Aslani
Analysis of Neutron and Gamma-Ray Steaming Along the Maze of NRCAM Thallium Production Target Room

Applied Radiation and Isotopes, 2006, Vol. 64, p1563-73, P. Rowshanfarzad, M. Sabet, A.R. Jalilian, M. Kamalideghhan
An Overview of Copper Radionuclides and Production of ^{61}Cu by Proton Irradiation of $^{\text{nat}}\text{Zn}$ at a Medical Cyclotron

Indian Journal of Chemistry: Section A, 2007, Vol. 46, p1615-7, N. Dallali, M. Ghanbari, B.Fatah
Liquid-Liquid Extraction of Ultra Trace Amounts of Technetium Produced by $^{100}\text{Mo}(p, 2n) ^{99\text{m}}\text{Tc}$ Nuclear Reaction in Cyclotron

Journal of Nuclear Science and Technology (AEOI), 2007, Vol. 40, p19-24, N. Hajiloo, G. Raisali, S. Hamidi and G. Aslani
Determination of Intensity and Energy Spectrum of Neutrons by Bombardment of Thallium-203 Thick Target and its Copper Substrate with 28.5 MeV Protons

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 42, p38-45, M. Ghasemi, M. Mirzaei, B. Fateh, A. Zarandi Mosavi, G. Aslani, N. Shadanpoor, P. Roshan Farzad and M. Ensaf
Design and Fabrication of a Target for ^{87}Y Production

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 45, M. Sadeghi, H. Afarideh, M.E. Ensaf, N. Shadanpour and M. Kiyomarsi
Selection of Suitable Reaction and Determination of Irradiation Parameters for Palladium-103 Production

Nukleonika, 2008, Vol. 53, p155-60, M. Sadeghi, M. Amiri, P. Rowshanfarzad, M. Ensaf and Z. Gholamzadeh
Thick Zinc Electrodeposition on Copper Substrate for Cyclotron Production of ^{64}Cu

Nukleonika, 2008, Vol. 53, p155-160, M. Sadeghi, M. Amiri, P. Rowshanfarzad, Z. Gholamzadeh and M. Ensaf
Thick Zinc Electrodeposition on Copper Substrate for Cyclotron Production of ^{64}Cu

Radiochimica Acta, 2008, Vol. 96, p399-402, *M. Sadeghi, *M. Amiri, *P. Rowshanfarzad, **M. Avila and ***C. Tenreiro
*Nuclear Medicine Research Group, Agricultural, Medical and Industrial Research School, Karaj, Iran
***Faculty of Engineering, University of Talca, Talca, Chile
****Cyclotron Department, Chielan Nuclear Energy Commission, Santiago, Chile
Radiochemical Studies Relevant to the No-Carrier-Added Production of $^{61,64}\text{Cu}$ at a Cyclotron

Journal of Radioanalytical and Nuclear Chemistry, 2008, Vol. 277, p645-650, M. Mirzaee, M. Sadeghi, Z. Gholamzadeh and S. Iahouti
Thick Silver Electrodeposition on Copper Substrate for ^{109}Cd Production

Applied Radiation and Isotopes, 2008, Vol. 66, p1281-1286, *M. Sadeghi, **M. Dastan, *M.R. Ensaf, **A. Abaspour Tehrani, ***C. Tenreiro and ****M. Avila
*Nuclear Medicine Research Group, Agricultural, Medical and Industrial Research School, Karaj, Iran
**Faculty of Engineering, Islamic Azad University, Tehran, Iran
***Faculty of Engineering, University of Talca, Talca, Chile
****Cyclotron Department, Chielan Nuclear Energy Commission, Santiago, Chile
Thick Tellurium Electrodeposition on Nickel-Coated Copper Substrate for ^{124}I Production

Radiochimica Acta, 2009, Vol. 97, p51-56, A.R. Jalilian, A. Panahifar, M. Mahmoodi, M. Akhlaghi and A. Simchi
Preparation and Biological Evaluation of ^{67}Ga -Labeled Superparamagnetic Nanoparticles in Normal Rats

Applied Radiation and Isotopes, 2009, Vol. 67, p7-10, M. sadeghi, M. Aboudzadeh, A. Zali, M. Mirzaii and F. Bolourinovin
Radiochemical Studies Relevant to ^{86}Y Production via $^{86}\text{Sr}(p,n)$ ^{86}Y for PET Imaging

Radiochimica Acta, 2009, Vol. 97, p113-116, M. Sadeghi, M. Mirzaee, Z. Gholamzadeh, A. Karimian and F. Bolouri Novin
Targetry and Radiochemistry for No-Carrier-Added Production of ^{109}Cd

Applied Radiation and Isotopes, 2009, Vol. 67, p1392-1396, M. Sadeghi, M. Aboudzadeh, A. Zali and B. Zeinali
 ^{86}Y Production via $^{86}\text{Sr}(p,n)$ for PET Imaging at a Cyclotron

Applied Radiation and Isotopes, 2009, Vol. 67, In Press, M. Sadeghi, A. zali, M. Aboudzadeh, P. Sarabadan, G. Aslani and A. Majdabadi
Targetry of SrCO_3 on a Copper Substrate by Sedimentation Method for the Cyclotron Production of No-Carrier-Added ^{86}Y

Reactor Related Isotope Production:

Thesis:

K. Nazarie, Thesis (M.S.), Amirkabir Technical University, Department of Physics and Nuclear Science, Teheran, Iran, July 1999
Designing a Separation Process of Radioactive Iodine Produced from Irradiation of Natural Uranium

F.E. Fakhari, Thesis (PhD), Der Phillips-Universitat Marburg, Germany, 2006
Separation and Purification of ^{111}In from Irradiated Cadmium Targets by Solid Phase Extraction (SPE) Method for Medical Application

Conference Papers:

International Conference on Research Reactor Utilization, Safety, Decommissioning, Fuel and Waste Management, Santiago, Chile, November 10-13, 2003, A.R. Ghahremani, M.R. Javanshir, R. Naghdi, H. Safiee and J. Solymani
Utilization of 4 MW Tehran Research Reactor by Production of Industrial and Medicine Radioisotope

Eurasian Conference on Nuclear Science and its Application, Tashkent, Uzbekistan, October 5-8, 2004, B. Nabardi and M. Gourani
Production of I-125 Radioisotope in Sodium Iodide Solution

Journal Articles:

Applied Radiation and Isotopes, 1994, Vol. 45, p155-8, M.A.W. Mondal and M. Doroudian
Burnup Calculations to Estimate the Effect of Chemical Shim "Boron" on the Production and Depletion of Heavy Isotopes in a PWR

Applied Radiation and Isotopes, 2001, Vol. 55, p605-8, K. Nazari, M. Ghannadi-Maragheh, M. Shamsaie and H. Khalafi
A New Method for Separation of ^{131}I , Produced by Irradiation of Natural Uranium

Research Journal of the University of Isfahan, 2001, Vol. 14, p11-20, A.L. Mostajab and M. Davati
Radioisotope Production Calculations in Neutronic Design of Heavy Water Research Reactor

Annals of Nuclear Energy, 2003, Vol. 30, p883-95, R. Sayareh, M. Ghannadi Maragheh and M. Shamsaie
Theoretical Calculations for the Production of ^{99}Mo using Natural Uranium in Iran

Annals of Nuclear Energy, 2004, Vol. 32, p331-41, H. Khalafi and M. Gharib
Optimization of ^{60}Co Production using Neutron Flux Trap in the Tehran Research Reactor

Iranian Journal of Nuclear Science and Technology, 2005, Vol. 34, p1-6, R. Yavari, A.R. Khanchi, H. Rafii, M.G. Maragheh and M.A. Farajzadeh
Radiochemical Separation of ^{111}In from Cd and Cu by Ion Exchange Chromatography

Annals of Nuclear Energy, 2005, Vol. 32, p331-41, H. Khalafi and M. Gharib
Optimization of ^{60}Co Production Using Neutron Flux Trap in the Tehran Research Reactor

Annals of Nuclear Energy, 2005, Vol. 32, p729-40, H. Khalafi, K. Nazari, M. Ghannadi-Maragheh

Investigation of Efficient ^{131}I Production from Natural Uranium at Tehran Research Reactor

Journal of Radioanalytical and Nuclear Chemistry, 2005, Vol. 264, p679-86, M. Tabasi, M. Ghannadi-Maragheh, M. Shamsail, and A.R. Khanchi

Separation of ^{133}Xe from ^{99}Mo , ^{131}I and Uranium, and Removal of Impurities using Gas Chromatography

Annals of Nuclear Energy, Article in Press, 2008, F. Faghihi, H. Havasi and M. Amin-Mozafari

Plutonium-239 Production Rate Study using a Typical Fusion Reactor

Plasma Focus Breeding Studies:

Journal Articles:

Journal of Fusion Energy, 2009, Vol. 28, p268-274, A.A. Zaeem, S.M.Sadat Kiai, M. Sedaghatizade, S. Adlparvar and S. Sheibani

Activities Study of Short-Lived Radioisotopes with a Filippov-Type Plasma Focus

Chemical Isotope Exchange:

Journal Articles:

Journal of Sciences, Islamic Republic of Iran, 1997, Vol. 8, p156-60, M.H. Pournaghi-Azar and R. Zargharian

Electrochemical Behavior of U(VI) Nitrate in Chloroform at a Mercury Electrode: the Dependence on Supporting Electrolyte

Polyhedron, 1998, Vol. 17, p3809-15, M. Shamsipur, E. Karkhaneei and A. Afkhami
Lithium-7 NMR Study of the Exchange Kinetics of the Lithium Ion with Cryptand C221 in Methanol Solution Temperature Dependence of the Exchange Mechanism

Journal of Nuclear Science and Technology (AEOI), 1999, Vol. 19, p1-9, M.R. Rezvanianzadeh, M.F. Zareh, A.R. Khanchi, M. Ghannadi Maragheh, and Y. Yamini
Orthogonal Array Design for the Optimization of Reduction of U (VI) to U (IV)

Journal of Nuclear Science and Technology (AEOI), 2000, Vol. 21, p34-41, S. Alamdar Milani, S.J. Ahmadi, B. Mianji, M. Zanjanipour, A.R. Khanchi and M. Channadi Maragheh

Production and Stability of Uranium (III)

Electromagnetic Isotope Separation Related Technology

Conference Papers:

Meeting of Nuclear Physicists and Experts of Iran, Shariz, February 20-1, 2002, H. Rafii, M. Mirzaei, N. Mirzajani, D. Sardari, I. Shahabi, and F. Majedi
NAA Analysis of Zn⁻⁶⁸

Meeting of Nuclear Physicists and Experts of Iran, Shariz, February 20-1, 2002, G. Aslani
The Design and Construction of Four Finger

EMIS-14: Conference on Electromagnetic Isotope Separations, Victoria, Canada, May 2002, A.J. Novinrooz, H. Bakhtiari, H. Sadri, M.R. Asadollahi, M. Ghasemi, M. Mohati, H. Seyedi, M. Sharbatdaran, M.M. Eshani, P. Balashabadi, P. Sarabadani, H. Nourkojouri, J. Garousi, and B. Zeynali
Enrichment of Stable Isotope by 180⁰ Electromagnetic Isotope Separator in "NRCAM" Iran

EMIS-14: Conference on Electromagnetic Isotope Separations, Victoria, Canada, May 2002, A.J. Novinrooz, H. Bakhtiari, H. Sadri, M.R. Asadollahi, M. Ghasemi, M. Mohati, H. Seyedi, M. Sharbatdaran, M.M. Eshani, P. Balashabadi, P. Sarabadani, H. Nourkojouri, J. Garousi, and B. Zeynali
Enrichment of Thallium 203 Isotope by 180⁰ Electromagnetic Isotope Separator

5th International Conference on Isotopes, Brussels, Belgium, April 25-29, 2005, Mohati
Enrichment of Ni-58 by Electromagnetic Isotope Separator

Journal Articles:

Journal of Nuclear Science and Technology (AEOI), 2003, Vol. 28, p19-22, A.J. Novinrooz, H. Bakhtiari, P. Sar Abadani, H. Sadri, Z. Asadollahi, H. Seyedi, M.R. Ghasemi, M. Mohati, M. Sharbatdaran, M. Eshani, H. Noorkajouri, J. Gharousi and B. Zeinali
Separation of Thallium Isotope ²⁰³Tl by 180⁰ Electromagnetic Isotope Separator

Journal of Nuclear Science and Technology (AEOI), 2006, Vol. 37, p35-8, J. Garousi, H. Noorkajouri, P. Sarabandi and B. Zeinali
Recovery of Mo-98 Enriched Stable Isotope from Graphite Collector of EMIS and its Chemical Purification

Gas Centrifuge Related Research:

Vacuum Technology:

Conference Papers:

10th ISME Conference, Khajehnasir University, Tehran, Iran, 2002, S.M. Hosseinalipour, A. Amoli and R. Ebrahimi

3-D Simulation of Free Molecular Flow Within Axial-Turbo Molecular Pump

9th Asian Conference of Fluid Mechanics, Isfahan, Iran, 2002, S.M. Hosseinalipour, A. Amoli and R. Ebrahimi

Effect of Non-Parallel Blades on Axial-Turbo Molecular Pump Performance

10th Annual Conference of the CFD Society of Canada, June 2002, S.M. Hosseinalipour, A. Amoli and R. Ebrahimi

3-D Simulation of Free Molecular Flow Within Spiral-Grooved Molecular Pump

36th AIAA Thermophysics Conference, Orlando, Florida, June 23-26, 2003, A. Amoli, H. Hoseinalipour, and R. Ebrahimi

Direct Simulation of Free Molecular Flow in Fully 3-D Axial Rotor

11th Annual Conference of the CFD Society of Canada, 2003, A. Amoli, R. Ebrahimi and S.M. Hosseinalipour

The Rotor-Stator Performance of a Turbomolecular Pump with a Real Topology

24th International Symposium on Rarefied Gas Dynamics, May 16, 2005, S.M. Hosseinalipour, R. Ebrahimi and A. Amoli

A New Procedure for Designing Blade Arrangement of a Turbomolecular Pump

Proceedings of the International Conference on Recent Advances in Mechanical and Materials Engineering, Kuala Lumpur, Malaysia, May 30-1, 2005, S. Ziaei-Rad and M. Jafari

Balancing of Flexible Rotors without Trail Runs using a Real-Code Genetic Algorithm

Journal Articles:

Journal of Thermophysics and Heat Transfer, 2004, Vol. 18, p148-51, S.M.

Hosseinalipour, A. Amoli, and R. Ebrahimi

Direct Simulation of Free Molecular Flow in Fully Three-Dimensional Axial Rotor

Vacuum, 2004, Vol. 72, p427-38, A. Amoli, R. Ebrahimi, and S.M. Hosseinalipour

Some Features of Molecular Flow in a Rotor-Stator Row with Real Topology

Vacuum, 2004, Vol. 75, p361-6, A. Amoli and S.M. Hosseinalipour
A Continuum Model for Pumping Performance of Turbomolecular Pumps in all Flow Regimes

Vacuum, 2004, Vol. 72, p427-438, A. Amoli, R. Ebrahimi and S.M. Hosseinalipour
Some Features of Molecular Flow in a Rotor-Stator Row with Real Topology

Journal of Sound and Vibration, 2004, Vol. 274, p985-995, M. Behzad and A.R. Bastami
Effect of Centrifugal Force on Natural Frequency of Lateral Vibration in Rotating Shafts

Iranian Journal of Science and Technology, Transactions B, Engineering, 2006, Vol. 30, p327-37, A.D. Rahmatabadi and R. Rashidi
Effect of Mount Angle on Static and Dynamic Characteristics of Gas-Lubricated, Noncircular Journal Bearings

Journal of Dispersion Science and Technology, 2010, To be published, M. Shams and M. Taghavi
Mathematical Simulation of Free Molecular Flow in a 3-D Turbomolecular Pump with Non-Parallel Blades

Inverter/Switching Related Technology

Conference Papers:

ELECO99 International Conference on Electrical and Electronics Engineering, 1999, M. Tarafdar Haque and S.H. Hosseini
A High Quality Multi-Level VSI Suitable for High Power/ High Voltage Applications

IEEE International Symposium on Industrial Electronics, Pusan, South Korea, 2000, S.H. Hosseini and E. Babaei
A New Generalized Direct Matrix Converter

Proceedings of the 35th Southeastern Symposium on System Theory, March 16-18, 2003, S.M.R. Rafaei
Neural Network Based Adaptive Phase and Amplitude Equalizer for Optimal and Robust Control of the Current Regulated PWM Inverters

Proceedings of the 10th IEEE International Conference on Electronics, Circuits and Systems, December 14-17, 2003, E. Babaei, A. Aghagolzadeh, S.H. Hosseini and S. Khanmohammadi
A New Structure for Three-Phase to Single-Phase AC/AC Matrix Converters

IECON 2004, 30th Annual Conference of the IEEE Industrial Electronics Society, November 2-6, 2004, S.H. Hosseini and A. Ajami
Voltage regulation and Transient Stability Enhancement of a Radial DC Transmission System using UPFC

TENCON 2004, November 21-24, 2004, S.H. Hosseini and M. Almaleki
A New Online Optimal Controller for 2-Cell Multicell Inverter

TENCON 2004, November 21-24, 2004, S.H. Hosseini and M.R. Banaei
Performance of Active Power Line Conditioner for Loss Reduction in the Power
Distribution System

Fizika-2005, Baku, Azerbaijan, June 7-9, 2005, M. Kalantar, N.M. Tabatabaei and M.
Rashidi
Control and Simulation of Fault and Change Effect in a Back to Back System of High
Voltage Direct Current Network

Proceedings of the Eighth International Conference on Electrical Machines and Systems,
Nanjing, China, September 29, 2005, E. Babaei, M.T. Haque and S.H. Hosseini
A Novel Structure for Multilevel Converters

PESC '06, 37th IEEE Power Electronics Specialists Conference, Jeju, June 18-22, 2006,
S.H. Hosseini and M. Sabahi
A New Bi-Directional ZVS Inverter by Estimated Phase Shifting for Non-Linear Loads

SICE-ICASE, Busan, October 18-21, 2006, S.H. Hosseini and A.Y. Goharrizi
Harmonic Optimization of Asymmetrical Voltage-Cancellation Control for Full-Bridge
Series Resonant Inverters

SICE-ICASE, Busan, October 18-21, 2006, E. Babaei, S.H. Hosseini, G.B. Gharehpetian
and M. Sabahi
A New Switching Strategy for 3-Phase to 2-Phase Matrix Converters

Canadian Conference on Electrical and Computer Engineering, Niagra Falls, Ontario,
Canada, May 4-7, 2008, S.H. Hosseini, M.B. Sharifian, M. Sabahi, A. Yazdanpanah and
G.H. Gharehpetian
Bi-Directional Power Electronic Transformer for Induction Heating Systems

SPEEDAM 2008, International Symposium on Power Electronics, Electrical Drives,
Automation and Motion, Ischia, Japan, June 11-13, 2008, S.H. Hosseini and E. Babaie
Comparison of Two General Control methods for 3-Phase to 2-Phase Direct Converters

Journal Articles:

Energetikanin Problemleri, 2002, Vol. 4, M.R. Banaei and S.H. Hosseini
Multilevel Converter based on Hysteresis Current Control for Speed Control of Induction
Motor with Field Oriented Control

Iranian Journal of Science and Technology, Transactions B: Engineering, 2002, Vol. 26, p679-686, M. Tarafdar Haque and Seyyed Hassan Hosseini
A High Quality Multi-Level Voltage Source Inverter Suitable for High Power/ High Voltage Applications

Journal of the Faculty of Engineering (University of Tabriz), 2003, Vol. 29, p1-13, H. Barati, S.H. Hosseini and E. Javaheri
Amplitude Reduction of Harmonics of Output Voltage of a Three-Phase PWM Inverter using Parallel Transistors

Journal of the Faculty of Engineering (University of Tabriz), 2004, Vol. 30, p1-11, S.H. Hosseini, M. Tarafdar Hagh, H. Veladi and B. Bahrami
Design, Simulation and Implementation of Static VAR Compensator Based on Instantaneous Reactive Power Theory

Iranian Journal of Electrical and Computer Engineering, 2006, Vol. 5, p97-102, M. Nasir Uddin, T.S. Radwan and M.A. Rahman
Performance Analysis of a Cost Effective 4-Switch 3-Phase Fed IM Drive

Iranian Journal of Science and Technology, Transaction B: Engineering, 2006, Vol. 30, A. Kazemi, M.S.M. Badejani and M.A.S. Masoum
Analysis and Control of Voltage Harmonics Generated by Thyristor Controlled Series Capacitors

ELECO2007, Turkey, 2007, K.G. Forouzjah, S.B. Samani, M.B. Sharifian and T. Herizchi
A Single Phase Six-Switch Inverter with Two Fix and Variable Output Voltages

Nashriyyah-I Muhandesi-I Barq Va Muhandesi-I Kampyutar, 2007, Vol. 5, p32-40, M. Nayeripour, V. Yazdian, M. Mohamadian and H.R. Mohammadi
Design and Control of Three-Phase Shunt Active Power Filter using the Sliding Mode Control and Energy Feedback

Journal of the Faculty of Engineering (University of Tabriz), 2007, Vol. 34, p49-62, M.E. Golshan Hamedani, Nia S. Hossein and M.M. Jokar
State Feedback Control of Dynamic Voltage Restorer

Electric Power Systems Research, 2007, Vol. 77, p1073-1085, E. Babaie, S.H. Hosseini, G.B. Gharehpetian, M. Tarafdar Haque and M. Sabahi
Reduction of dc Voltage Sources and Switches in Asymmetrical Multilevel Converters using a Novel Topology

Journal of the Faculty of Engineering (University of Tabriz), 2008, Vol. 35, p69-81, A. Yazdanpanah, S.H. Hosseini and M. Sabahi
Design and Implementation of PWM Controlled High-Frequency Inverter with Soft-Switching Attribute for Induction Heating Applications

Iranian Journal of Science and Technology, Transaction B: Engineering, 2009, Vol. 33, p179-189, K. Pourhosseini and Mohhamd S. Naderi
Surge Suppression using a Fuzzy Hysteresis-Band Controlled Resistor Array

International Journal of Computer and Electrical Engineering, 2009, Vol. 1, p237-245, M.B.B. Sharifian, R. Rahnavard and Y. Ebrahimi
Variable Hysteresis Band Current Controller of Shunt Active Filter Based Fuzzy Logic Theory under Constant Switching Frequency

Journal of Zhejiang University of Science: A, 2009, Vol. 10, p890-899, R. Noroozian, M. Abedi, G.B. Gharehpetian and S.H. Hosseini
A Novel Control Strategy for Load Converter of DC Isolated Distribution System for Unbalanced Loading Conditions

International Journal of Electrical Power and Energy Systems, 2009, Article in press, E. Babaei, S.H. Hosseini and G.B. Gharehpetian
Reduction of THD and Low order Harmonics with Symmetrical Output Current for Single-Phase AC/AC Matrix Converters

Energy Conversion and Management, 2009, Vol. 50, p2761-2767, E. Babaei and S.H. Hosseini
New Cascaded Multilevel Inverter Topology with Minimum Number of Switches

Magnetic Material Related Research:

Conference Papers:

INTERMAG92, April 13-16, 1992, *K.G. Knoch, **A. Kianvash and ***I.R. Harris
*Department of Pure and Applied Physics, Trinity College, Dublin, Ireland
** Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran
**Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK
Nd-Fe-B-Cu Processed Sintered Magnets: Up-Graded Properties and Microstructure

Twelfth International Workshop on Rare-Earth Magnets and Their Applications, July 12-5, 1992, Canberra, Australia, *A. Kianvash and **I.R. Harris
*Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK
** Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran
Magnetic Properties of a 2:17-Type Sm(Co, Cu, Fe, Zr)_{8.92} Cast Magnet

First Regional Conference on Magnetic and Superconducting Materials, September 1999, Iran, H.R. Madaad Hosseini, M. Akhavan, H. Yoozbashizadeh, M. Seyed Reihani and A. Kianvash
The Influence of Heat Treatment on the Magnetic Properties of Nd_{11.9}MM_{2.8}Fe_{73.9}Co_{3.3}Ni_{1.1}B_{6.9} Sintered Magnets

Proceedings of the 16th International Workshop on RE Magnets and their Applications, September 2000, Japan, H.R.Madaah Hosseini, A. Kianvash, M. Seyed Reihani and H. Yoozbashizadeh

Binary Powder Blending Technique (BPBT): An Effective Method in Production of (Nd, MM)₂(Fe,Co,Ni)₁₄B – Type Corrosion Resistant Magnets

INTERMAG20033, March 28 – April 3, 2003, E. Fallah, J.S. Moghani and H.A. Talebi
Modeling of Magnetic Hysteresis using Counter Propagation Neural Network

Proceedings of Euro PM, October 2003, Spain, H.R. Madaah Hosseini and A. Kianvash
Microstructural and Mechanical Effects of a MM38.2Co46.4Ni15.4 Alloy Additions to a Nd-Fe-B Sintered Magnet

Journal Articles:

Journal of Materials Science Letters, 1984, Vol. 3, p18-20, *A. Kianvash and **I.R. Harris

*Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK
** Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran
A Correlation between Magnetic and Mechanical Hardness in Some Sm₂(Co, Cu, Fe, Zr)₁₇-Type Magnets

Journal of Materials Science, 1984, Vol. 19, p353-8, *A. Kianvash and **I.R. Harris
*Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK
** Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran
Coercivity Dependence of a Sm₂(Co, Cu, Fe, Zr)₁₇ Type Alloy on Magnetic Processing Procedure

Journal of the Less-Common Metals, 1984, Vol. 98, p93-108, *A. Kianvash and **I.R. Harris
*Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK
** Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran
Metallographic Studies of a 2-17-Type Sm(Co, Cu, Fe, Zr)_{8,92} Magnetic Alloy

Journal of Materials Science, 1985, Vol. 20, p8682-8, *A. Kianvash and **I.R. Harris
*Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK
** Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran
Hydrogen Decrepitation as a Method of Powder Preparation of a 2-17-Type Sm(Co, Cu, Fe, Zr)_{8,92} Magnetic Alloy

Journal of Applied Physics, 1991, Vol. 70, p6453-5, *A. Kianvash and **I.R. Harris
*Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK
** Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran
Magnetic Properties of the Sintered Magnets Produced from a Nd-Fe-B-Cu-Type Material

Journal of Alloys and Compounds, 1992, Vol. 178, p325-41, *A. Kianvash and **I.R. Harris

*Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK
** Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran
The Effect of Heat Treatment on the Microstructure and Magnetic Properties of Sintered Magnets Produced from Nd-Fe-B Based Alloys with or without Copper Substitution

Journal of Alloys and Compounds, 1992, Vol. 182, p223-31, *A. Kianvash, **K.G. Knoch and ***I.R. Harris

* Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran
**Department of Pure and Applied Physics, Trinity College, Dublin, Ireland
***Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK
The Effect of the Cooling Rate on the Intrinsic Coercivity of Some Nd-Fe-B Based Permanent Magnets

Journal of Alloys and Compounds, 1992, Vol. 183, p54-8, *A. Kianvash, **K.G. Knoch and ***I.R. Harris

* Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran
**Department of Pure and Applied Physics, Trinity College, Dublin Ireland
***Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK
Nd-Fe-B Based Magnets: Magnetic Properties and Microstructural Appearance with Copper Addition

IEEE Transactions on Magnetics, 1992, Vol. 28, p2142-4, *A. Kianvash, **K.G. Knoch and ***I.R. Harris

* Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran
**Department of Pure and Applied Physics, Trinity College, Dublin Ireland
***Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK
Nd-Fe-B-Cu HD-Processed Sintered Magnets: Properties and Microstructure

Journal of Alloys and Compounds, 1998, Vol. 279, p245-51, *A. Kianvash and **I.R. Harris

* Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran
**Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK
The Influence of Free Iron on the Hydrogen Decrepitation Capability of some Nd(Pr)-Fe-B Alloys

Materials Science and Engineering. Part A, Structural Materials, 1998, Vol. 258, p173-180, *R.A. Buckley and **S. Kaviani

*Department of Engineering Materials, University of Sheffield, Sheffield, UK
**Currently at Imam Hossein University (IRGC), Tehran, Iran
Some Aspects of Rapid Solidification Processing of Fe-Al-X Alloys

Journal of Materials Science, 1999, Vol. 34, p45-52, *S.A.S. Ebrahimi, **C.B. Ponton, **I.R. Harris and **A. Kianvash

* Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran
**Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK
Characterization and Optimization of the Coercivity-Modifying Nitrogenation and Re-Calcination Process for Strontium Hexaferrite Powder Synthesized Conventionally

Journal of Materials Science, 1999, Vol. 34, p53-8, *S.A.S. Ebrahimi, **C.B. Ponton, **I.R. Harris and **A. Kianvash

* Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran
**Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK
Comparative Effects of the Hydrogen and Nitrogen Gas Treatment and Recalcination (GTR) Routes on the Composition, Microstructure, and Magnetic Properties of Conventionally Synthesized Sr-Heaxferrite

Journal of Alloys and Compounds, 1999, Vol. 282, p213-9, *A. Kianvash and **I.R. Harris

* Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran
**Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK
The Production of a $\text{Nd}_{16}\text{Fe}_{76}\text{B}_8$ Sintered Magnet by the Hydrogen Decrepitation/Hydrogen Vibration Milling Route

Journal of Alloys and Compounds, 1999, Vol. 283, p282-8, *R.S. Mottram, **A. Kianvash and *I.R. Harris

*Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK
* *Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Ir
The Use of Metal Hydrides in Powder Blending for the Production of NdFeB-Type Magnets

Journal of Alloys and Compounds, 1999, Vol. 287, p206-14, *A. Kianvash, **R.S. Mottram and **I.R. Harris

* Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran
**Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK
Densification of a $\text{Nd}_{13}\text{Fe}_{78}\text{NbCoB}_7$ -Type Sintered Magnet by (Nd,Dy)-Hydride Additions using a Powder Blending Technique

IEEE Transactions on Magnetics, 1999, Vol. 35, p4232-7, J. Faiz and H. Jafari
Two-Dimensional Magnetic Field Analysis of Internal-Rotor Permanent-Magnet Motors

Journal of Alloys and Compounds, 2000, Vol. 298, p319-23, H.R. Madaah Hosseini, A. Kianvash, M. Seyyed Reinhani and H. Yoozbashi Zadeh

Production of $(\text{Nd,MM})_2(\text{Fe,Co,Ni})_{14}\text{B}$ -Type Sintered Magnets using a Binary Powder Blending Technique

Ceramics International, 2000, Vol. 26, p379-81, *S.A.S. Ebrahimi, **C.B. Ponton, **I.R. Harris and *A. Kianvash

* Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran
**Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK
The Effect of Hydrogen on Composition, Microstructure and Magnetic Properties of Strontium Hexaferrite

Iranian Journal of Crystallography and Mineralogy, 2001, Vol. 9, p37-45, M. Mozaffari and J. Amighian
Mechanochemical Preparation and Magnetic Properties of Ultrafine Strontium Ferrite Powders

Journal of Alloys and Compounds, 2001, Vol. 314, p251-6, H.R. Madaah Hosseini, A. Kianvash, M. Seyyed Reinhani and H. Yoozbashi Zadeh
A Correlation between Intrinsic Coercivity-Electrical Conductivity-Thermal Treatment in a $\text{Nd}_{11.9}\text{MM}_{2.9}\text{Fe}_{73.9}\text{Co}_{3.3}\text{Ni}_{1.1}\text{B}_{6.9}$ -Type Magnet

Journal of the American Ceramics Society, 2001, Vol. 84, p1184-6, A. Hosseinpour and A. Zakery
Investigation of Magnetic Force for Barium and Strontium Ferrites

Physica Stati Solidi B, 2001, Vol. 227, p563-7, A. Hosseinpour and H. Sadeghi
Anistropy Variation with Order-Disorder Transition in Magnetite

Iranian Journal of Science and Technology, 2002, Vol. 26, p1-10, *A. Kianvash, **K.G. Khoch and ***I.R. Harris
* Now at the Department of Ceramic Engineering, University of Tabriz, Tabriz, Iran
**Department of Pure and Applied Physics, Trinity College, Dublin Ireland
***Department of Metallurgy and Materials, University of Birmingham, Birmingham, UK
Microstructural Investigations on Nd-Fe-B-Cu Sintered Magnets

International Journal of Engineering, 2002, Vol. 15, p87-96, A. Kianvash
Effect of Post-Sintering Annealing Treatment on Magnetic Properties of Some Nd-fe-B Based Magnets

Iranian Journal of Crystallography and Mineralogy, 2004, Vol. 12, p93-104, K. Nekoe, S. Heshmatimanesh and A. Ataei
Effects of Thermo-Magnetic Heat Treatment on Microstructure and Magnetic Properties of Alnico 5DG Alloy

Physica Status Solidi (C), 2004, Vol. 1, p1719-23, *M.R. Alinejad, *A. Amirabadizadeh, *N. Tajabor, **F. Pourian and ***H. Kanekiyo

*Department of Physics, Ferdowsi University of Mashhad, Mashhad, Iran

**Carnegie-Mellon Institute, Carnegie-Mellon University, Pittsburgh, PA.

***Sumitomo Special Metals Co. Ltd., Osaka, Japan

Magnetostriction and Thermal Expansion of Polymer-Bonded Nd₄Fe_{77.5}B_{18.5} Nanocomposite

Journal of Magnetism and Magnetic Materials, 2004, Vol. 281, p92-6, H.R. Madaah Hosseini and A. Kianvash

The Role of Milling Atmosphere on Microstructure and Magnetic Properties of a Nd_{12.8}Fe_{79.8}B_{7.4}-Type Sintered Magnet

Iranian Journal of Materials Science and Engineering, 2004, Vol. 1, p7-22, S. Kaviani and P.H. Marashi

TEM Investigation of Rapidly Solidified NdFeB Hard Magnetic Material

Physica Status Solidi (C), 2004, Vol. 1, p3284-7, S.A. Seyyed Ebrahimi

The Effect of Ball Milling Before and After Calcination on the Magnetic Properties of HTR Processed Strontium Hexaferrite Powder

Iranian Journal of Crystallography and Mineralogy, 2004, Vol. 12, p93-104, K. Nekoe, S.M. Heshmati and A. Ataie

Effects of Thermo-Magnetic Heat Treatment on Microstructure and Magnetic Properties of ALNICO 5DG Alloy

Iranian Polymer Journal, 2005, Vol. 14, p71-9, M. Kokabi, F. Arabgol and M. Manteghian

Nd₂Fe₁₄B Permanent Polymeric Composites Magnets

Materials Science and Engineering B, 2005, Vol. 123, p74-9, H.R. Madaah Hosseini and A. Bahrami

Preparation of Nanocrystalline Fe-Si-Ni Soft Magnetic Powders by Mechanical Alloying

Physica Status Solidi (A), 2006, Vol. 203, p287-93, *R. Gholamipour, *A. Beitollahi,

*V.K. Marghusian, **T. Ohkubo, ***S.V. Andreev, ***A.N. Bogatkin, ***S.S.

Duragin, ***A.N. Kozolov and ***N.V. Kudervatykh

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**National Institute for Materials Science, Tsukuba, Japan

***Institute for Physics and Applied Mathematics, Ural State University, Ekaterinburg, Russia

Microstructure-Magnetic Properties Relationships in Nanocrystalline Nd-Fe-Co-Ge-B Annealed Ribbons

Journal of Magnetism and Magnetic Materials, 2006, Vol. 302, p294-296, *H.K. Fadafan, *M.R. Alinejad, *N. Tajabor, **D. Fruchart, **P. de rango, **I. Popa and ***D. Gignoux

*Department of Physics, Ferdowsi University, Mashad, Iran

**Laboratoire de Cristallographie, CNRS, Grenoble, France

***laboratoire Louis Neel, CNRS, Grenoble, France

Influence of Spin Reorientation on the Magnetoelastic Properties of NdFe_{10.5}V_{1.5}

Materials Letters, 2006, Vol. 60, p555-8, H.R. Madaah Hosseini and A. Kianvash
The Effects of MM_{38.2}Co_{46.4}Ni_{15.4} Alloy Additions on the Mechanical Properties of Nd_{12.8}Fe_{79.8}B_{7.4}-Type Sintered Magnet

Journal of Alloys and Compounds, 2006, Vol. 419, p337-41, H.R. Madaah Hosseini, A. Dadoo, A. Dolati and A. Kianvash

A Study on the Corrosion Behavior of the (Nd, MM)₂(Fe, Co, Ni)₁₄-B-Type Sintered Magnets

The Physics of Metals and Metallography, 2006, Vol. 102, pS24-31, *A. Beitollahi, *R. Gholamipour, *V.K. Marghussian, **S.V. Andreev, **A.N. Bogatkin, **S.S. Duragin, **A.N. Kozlov, **N.V. Kudrevatykh, ***S.G. Bogdanov and ***A.N. Piogov

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***Institute of Metal Physics, Ural Division, Russian Academy of Sciences, Ekaterinburg, Russia

Magnetic and Structural Properties of Rapidly Quenched Nd-Fe-Co-Ge-B Alloys

The Physics of Metals and Metallography, 2006, Vol. 102, S.A. Seyyed Ebrahimi
Optimization of Milling Time before and after Recalcination on HTR Processed Strontium Hexaferrite Powder

Physica Status Solidi C, 2006, Vol. 3, p3216-3219, *M.R. Alinejad, *H.K. Fadafan, *N. Tajabor, **D. Fruchart and ***D. Gignoux

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**Laboratoire de Cristallographie, CNRS, Grenoble, France

***Laboratoire Louis Neel, CNRS, Grenoble, France

Anomalies in Magnetoelastic Properties in NdFe₁₀V₂ Alloy

Journal of Materials Processing Technology, 2007, Vol. 189, p1-12, H. Shokrollahi and K. Janghorban

Soft Magnetic Composite Materials (SMCs)

Physica B: Condensed Matter, 2007, Vol. 398, p51-4, *R. Gholamipour, **A. Beitollahi, **V.K. Marghusian and ***T. Ohkubo

*Iran Research Organization for Science and Technology, (IROST), Forsat, Tehran, Iran

**Department of Metallurgy and Materials Science, Iran University of Science and Technology, Narmak, Tehran, Iran

***National Institute for Materials Science (NIMS), Tsukuba, Japan

Cu Effects on Coercivity and Microstructure Features in Nanocrystalline Nd-Fe-Co-B Annealed Melt-Spun Ribbons

Journal of Magnetism and Magnetic Materials, 2007, Vol. 311, p702-707, *M.R.

Alinejad, *N. Tajabor, *H.K. Fadafan, **D. Fruchart and ***D. Gignoux

*Department of Physics, Ferdowsi University, Mashand, Iran

**Laboratoire de Cristallographie, CNRS, Grenoble, France

***Laboratoire Louis Neel, CNRS, Grenoble, France

A Comparative Study of the Magnetoelastic Properties of the $YFe_{10}V_2$ and $NdFe_{10}V_2$ Compounds

Journal of Alloys and Compounds, 2008, Vol. 448, p284-286, M.R. Madaah Hosseini and N. Naghibolashraphy

The Effect of Misch-Metal Oxide Addition on Magnetic Properties and Crystal Structure of $Sr_{1-x}MM_xFe_{12}O_{19}$ Ferrite

Journal of Magnetism and Magnetic Materials, 2008, Vol. 320, 1712-1716, *M.R.

Alinejad, *N. Tajabor, *H.K. Fadafan, **D. Fruchart and ***D. Gignoux

*Department of Physics, Ferdowsi University, Mashand, Iran

**Laboratoire de Cristallographie, CNRS, Grenoble, France

***Laboratoire Louis Neel, CNRS, Grenoble, France

Influence of H and N Insertion on the Magnetostriction and Thermal Expansion of $YFe_{10}V_2Z_x$ ($Z=N,H$) Compositions

Journal of Magnetism and Magnetic Materials, 2008, Vol. 320, p1884-1888, S. Falahi, M. Taheri and M. Akhavan

Hall Effect and Reversal in $Gd(Ba_{2-x}Nd_x)Cu_3O_7$

Journal of Magnetism and Magnetic Materials, 2008, Vol. 320, p2140-2143, *M.R.

Alinejad, *N. Tajabor and **F. Pourarian

*Department of Physics, Ferdowsi University, Mashad, Iran

**Department of Material Science and Engineering, Carnegie Mellon University, Pittsburgh, PA

Study of the Magnetostrictive Strains in $Pr_6Fe_{11}Ga_3$ Alloy

Journal of Alloys and Compounds, 2009, Vol. 468, p11-14, *M.R. Alinejad, *N. Tajabor, *H.K. Fadafan, **D. Fruchart and ***D. Gignoux

*Department of Physics, Ferdowsi University, Mashand, Iran

**Laboratoire de Cristallographie, CNRS, Grenoble, France

***Laboratoire Louis Neel, CNRS, Grenoble, France

Magnetostriction and Thermal Expansion of Interstitially Modified $\text{NdFe}_{10}\text{V}_2\text{Z}_x$ ($\text{Z}=\text{N},\text{H}$) Compounds

Journal of Alloys and Compounds, 2009, Vol. 480, p198-202, *D.S. Khoshnoud, *T. Tajabor, **D. Fruchart, **D. Gignoux, **S. Miraglia and ***F. Pourarian

*Department of Physics, Ferdowsi University, Mashand, Iran

**Laboratoire Louis Neel, CNRS, Grenoble, France

***Department of Material Science and Engineering, Carnegie Mellon University, Pittsburgh, PA

Influence of Co Substitution on Magnetoelastic Properties of $\text{Er}_2\text{Fe}_{14-2}\text{Co}_x\text{B}$ ($X=1,3$ and 5) Intermetallic Compounds

Journal of Magnetism and Magnetic Materials, 2009, Vol. 321, p3391-3395, *N.

Nezakat, **R. Gholamipour, *A. Amadeh, *A. Mohammadi and ***T. Ohkubo

*Faculty of Engineering, University of Tehran, Tehran, Iran

**Iranian Research Organization for Science and Technology, Tehran, Iran

***National Institute for Materials Science, Tsukuba, Japan

Corrosion Behavior of $\text{Nd}_{9.4}\text{Fe}_{\text{bal.}}\text{Co}_6\text{B}_6\text{Ga}_{0.5}\text{Ti}_x\text{C}_x$ ($X=0, 1.5, 3, 6$) Nanocomposites Annealed Melt-Spun Ribbons

Journal of Physics D, 2009, Vol. 42, 115410, *S.P.H. Marashi, **A. Abedi, ***S.

Kavaiani, ****S.H. Aboutalebi, *****M. Rainforth and *****H.A. Davies

*Mining and Metallurgical Department, Amirkabir University of Technology, Tehran, Iran

**Department of Mechanical Engineering, Imam Hossein University (IRGC), Tehran, Iran

***Materials and Energy Resesarch Center, Karaj, Iran

****Department of Engineering Materials, Sheffield, UK

Effect of Melt-Spinning Roll Speed on the Nanostructure and Magnetic Properites of Stoichiometric and Near Stoichiometric Nd-Fe-B Ribbon Alloys

Journal of Magnetism and Magnetic Materials, 2009, In press, *D.S. Khoshnoud, *N. Tajabour, **F. Pourarian and ***H. Salamati

*Department of Physics, Ferdowsi University, Mashad, Iran

** Department of Material Science and Engineering, Carnegie Mellon University, Pittsburgh, PA

***Faculty of Physics, Isfahan University of Technology, Isfahan, Iran

Influence of Si and Co Substitution on Magnetoelastic Properties of R_2Fe_{17} ($\text{R}=\text{Y}, \text{Er}$ and Tm) Intermetallic Compounds

Carbon Fiber Manufacture:

Conference Papers:

Proceedings of the 7th Iran Metallurgical Engineering Society Conference, October 2003, Tehran, Iran, A. Sedghi
Fabrication of Carbon Fibers from Commercial PAN Fibers

Proceedings of Polychar-13, Annual World Forum on Advanced Materials, July 3-8, 2005, Singapore, A. Sedghi
Feasibility Study for Fabrication of Carbon, Basalt, and Glass Fibers in Iran

Proceedings of the Ninth International SAMPE Symposium, November 29 – December 2, 2005, Tokyo, Japan, A. Sedghi
The Effect of Processing Parameters on the Properties of Carbon Fibers Fabricated from Commercial Dry Spin Acrylonitrile Fiber Precursors

Journal Articles:

Material Science and Technology, 2006, Vol. 22, p1235-, A. Sedghi, A. Shokuhfar and R.E. Eslami
Effect of Thermal Characteristics of Commercial and Special Polyacrylonitrile Fibers on the Fabrication of Carbon Fibers

E-polymers, 2006, No. 1, A. Sedghi
Stabilization of Commercial Polyacrylonitrile Fibers for Fabrication of Low Cost Medium Strength Carbon Fibers

Fibre Chemistry, 2006, Vol. 5, p383-6, R.E. Frasani, A. Shokuhfar and A. Sedghi
Fabrication of Carbon Fibres from Wet-Spun Commercial Polyacrylonitrile Fibres

Materials Science-Poland, 2007, Vol. 25, p113-20, R.E. Eslami Farsani, S. Raissi, A. Shokuhfar and A. Sedghi
Optimisation of Carbon Fibres Made from Commercial Polyacrylonitrile Fibres Using the Screening Design Method

Academy of Science, Engineering and Technology, 2007, Vol. 35, p233236, E. Eslami Farsani, A. Shokuhfar and A. Sedghi
Conversion of Modified Commercial Polyacrylonitrile Fibers to Carbon Fibers

Journal of Materials Processing Technology, 2008, Vol. 198, p60-67, A. Sedghi, R.E. Farsani and A. Shokuhfar
The Effect of Commercial Polyacrylonitrile Fibers Characterizations on the Produced Carbon Fibers Properties

International Journal of Mechanical Systems Science and Engineering, 2008, Vol. 1, p182-5, R.E. Eslami Farsani, A. Shokuhfar and A. Sedghi
Conversion of Modified Commercial Polyacrylonitrile Fibers to Carbon Fibers

Proceedings of the World Academy of Science, Engineering and Technology, 2009, Vol. 38, p434437, R. Eslami Farsani, S. Raissi, A. Shokuhfar and A. Sedghi
FT-IR Study of Stabilized PAN Fibers for Fabrication of Carbon Fibers

Carbon Fiber Composites:

Thesis:

H. Golestanian, Thesis (PhD), Mechanical and Engineering Department, University of Missouri-Columbia, 1997

Modeling of Process Induced Residual Stresses and Resin Flow Behavior in Resin Transfer Molded Composites with Woven Fiber Mats

S.M. Kamali, Thesis (M.Sc.), Iran University of Science and Technology, 2002
Determination of Residual Stresses in Composites

Conference Papers:

4th Manufacturing Conference, Amirkabir University, 1999, H. Golestanian
Effects of Resin Cure on Stiffness Matrices of Composite Lamina with Woven Fiber Mats in RTM

AIAA/ASME/ASCE/AHS Structural Dynamics, and Materials Conference, April 2003, Norfolk, Virginia, H. Golestanian
Cure Analysis in Resin Transfer Molding of a Composite Cylinder

Journal Articles:

Composite Structures, 1997, Vol. 39, p157-64, M. Darvizeh, S.T.S. Al-Hassani and H. Haftchenari

An Analytical Study of Buckling of Composite Tubes with Various Boundary Conditions

Composite Structure, 1999, Vol. 44, p55-62, *C.B. Sharma, **M. Darvizeh and **A. Darvizeh

*Department of Mathematics, UMIST, Manchester, UK

**Department of Mechanical Engineering, Guilan University, Rasht, Iran

Free Vibration Behavior of Helically Wound Cylindrical Shells

Composites Science and Technology, 2002, Vol. 62, p861-79, A. Shojaei, S.R. Ghaffarian and S.M.H. Karimian

Numerical Simulation of Three-Dimensional Mold Filling Process in Resin Transfer Molding Using Quasi-Steady State and Partial Saturation Formulations

Esteghlal, 2003, Vol. 21, p111-125, S.M.R. Khalili, M. Zohour and A. Khorrami
Introducing a New Mathematical Package and Developing a Computer Package for 3-D
Machining of Fiber Reinforced Polymer Composites

Composites Science and Technology, 2003, Vol. 63, p1931-48, A. Shojaei, S.R.
Ghaffarian and S.M.H. Karimian
Simulation of the Three-Dimensional Non-Isothermal Model Filling Process in Resin
Transfer Molding

Composite Structures, 2004, Vol. 65, p381-90, A. Shojaei, S.R. Ghaffarian, S.M.H.
Karimian
Three-Dimensional Process Cycle Simulation of Composite Parts Manufactured
by Resin Transfer Molding

Journal of Composite Materials, 2005, Vol.39, p2213-25, M.M. Shokrieh and S.M.
Kamali
Theoretical and Experimental Studies on Residual Stresses in Laminated Polymer
Composites

International Journal of Solids and Structures, 2005, Vol. 42, p2741-2754, M. Tahani, A.
Nosier and S.M. Zebarjad
Deformation and Stress Analysis of Circumferentially Fiber-reinforced Composite Disks

Composite Structures, 2006, Vol. 74, p495-502, *M. Darvizeh, *H. Haftchenari, *A.
Dravizeh, *R. Ansari and **C.B. Sharma
*Department of Mechanical Engineering, Guilan University, Rasht, Iran
**Department of Mathematics, UMIST, Manchester, UK
The Effect of Boundary Conditions on the Dynamic Stability of Orthotropic Cylinders
using a Modified Exact Analysis

Composites Science and Technology, 2006, Vol. 66, p1546-57, A. Shojaei
A Numerical Study of Filling Process through Multilayer Preforms in Resin
Injection/Compression Molding

Advanced Composites Materials, 2007, Vol. 14, p379-391, A. Vafaeseefat and A. Khani
Head Shape and Winding Angle Optimization of Composite Pressure Vessels Based on a
Multi-Level Strategy

Archive of Applied Mechanics, 2007, Vol. 77, p363-379, K. Daneshjou, A. Nouri and R.
Talebitooti
Sound Transmissions Characteristics of a Cylindrical Shell using Analytical and
Experimental Models

Composite Structures, 2007, Vol. 81, p587-597, B. Farshi and R. Rabiei
Optimum Design of Composite Laminates for Frequency Constraints

Journal of Materials Science, 2008, Vol. 43, p6676-6681, H. Golestanian
Preform Permeability Variation with Porosity of Fiberglass and Carbon Mats

Materials and Design, 2009, Vol. 30, 1976-1984, M. Abadyan, V. Khademi, R. Bagheri,
H. Haddadpour, M.A. Kouchakzadeh and M. Farsadi
Use of Rubber Modification Technique to Improve Fracture-Resistance of Hoop Wound
Composites

Archive of Applied Mechanics, 2009, Vol. 79, M. Talebitooti, M. Ghayour, S. Ziaei-Rad
and R. Talebittoti
Free Vibration of Rotating Composite Conical Shelles with Stringer and Ring Stiffeners

Materials and Design, 2009, Vol. 30, p3048-3055, M. Abadyan, R. Bagheri, H.
Haddadpour and P. Motamedi
Investigation of the Fracture Resistance in Hoop Wound Composites Modified with Two
Different Reactive Oligomers

Journal of Mechanics, 2009, Vol. 25, p299-306, K. Daneshjou, R. Talebitooti and A.
Nouri
Acoustic Transmission through Cylindrical Shells Treated with FLD Mechanics

Maraging Steel Related Research:

Conference Papers:

2nd Production and Manufacturing Engineering Conference, Tehran, Iran, 1995, S.
Serajzadeh and A. Karimi Taheri
Determination of Temperature Distribution in Hot Rod Rolling

Second International Conference of Iranian Mechanical Engineering ISME, Shiraz, Iran,
1996, S. Serajzadeh and A. Karimi Taheri
Prediction of Temperature Distribution and Microstructure in Hot Rolling of Bars and
Rod

3rd Production and Manufacturing Engineering Conference, Tehran, Iran, 1996, S.
Serajzadeh and A. Karimi Taheri
Analysis of Hot Rod Rolling Using the Finite Element Method
E-MRS Fall Meeting 2005, Symposium I, *S. Hossein Nedjad, **M. Nili Ahmadabadi,
and ***T. Furuwara
*University of Tehran
**Sahand University of Technology
***Kyoto University
Evolution of Precipitate Coarsening Reaction in a Nanostructured Fe-Ni-Mn Maraging
Steel

Proceedings of the International Conference on Recent Advances in Mechanical and Materials Engineering, Kuala Lumpur, Malaysia, May 30-31, 2005, M.H. Parsa, A.M.A. Pazooki, and M. Nili Ahmadabadi

The Prediction Process Parameter Effects on Flow Formability in High Strength Steels Using Simulation

Proceedings of the International Conference on Recent Advances in Mechanical and Materials Engineering, Kuala Lumpur, Malaysia, May 30-31, 2005, A. Kolagar and A. Attari

Effect of Vacuum Investment Casting Variables on the Microporosity Content in Ni-Base Superalloy IN738LC

Super-High Strength Steels, Rome, Italy, November 2-5, 2005, M. Nili Ahmadabadi, S. Hossein Nedjad, M. Sadeghi, and H. Shirazi

Improvement of Mechanical Properties in Fe-Mn-Ti Steel by Alloying with Cr and Mo

First International Conference on Nanoscience and Nanotechnology, Tehran, Iran, December 18-20, 2006, *M. Iranpour-Mobarake, *M. Nili-Ahmabadabi, *B. Poorganji, **T. Furuwara and *H. Shirazi

*School of Metallurgy and Materials Engineering, University of Tehran, Tehran, Iran

**Institute for Materials Research, Tohoku University, Sendai, Japan

Mechanical Properties of Nano-Grains Maraging Steel Prepared by ECAP Process

First International Conference on Nanoscience and Nanotechnology, Tehran, Iran, December 18-20, 2006, *S. Hossein Nedjad, *M. Nili-Ahmabadabi, **T. Furuwara, and ***T. Maki

*School of Metallurgy and Materials Engineering, University of Tehran, Tehran, Iran

**Institute for Materials Research, Tohoku University, Sendai, Japan

***Department of Materials Science and Engineering, Kyoto University, Kyoto, Japan

Mechanism of Ultrafine Grain Formation during Cold Rolling and Aging of Lath

Martensite in a Maraging Steel

Journal Articles:

Journal of Material Processing Technology, 2004, Vol. 153-4, p209-12, H. Farhangi, S. Norouzi, and M. Nili-Ahmadabadi

Effects of Casting Process Variables on the Residual Stress in Ni-Base Superalloys

Materials Science and Engineering, 2004, Vol. 378A, p314-8, S. Hossein Nedjad, M. Nili-Ahmadabadi, R. Mahmudi, and H. Farhangi

Effect of Conventional and Subzero Treating on the Mechanical Properties of Aged Martensitic Fe-12 wt.% Ni-X wt.% Mn Alloys

International Journal of Machine Tools and Manufacturing, 2004, Vol. 44, p1537-45, S. Serajzadeh, S.M.H. Mirbagheri, A. Karimi Taheri, and S.M. Zabarjad

Modelling of Metal Flow during Hot Forging with Regard to Microstructural Aspects

Materials Science and Engineering, 2006, Vol. 438-40A, p288-91, *S. Hossein Nedjad,
M. Nili Ahmadabadi, **R. Mahmudi, *T. Furuwara, and ****T. Maki
*Faculty of Materials Engineering, Sahand University of Technology
**School of Metallurgy and Materials Engineering, University of Tehran
***Institute for Materials Research, Tohoku University
****Department of Materials Science and Engineering, Kyoto University
Analytical Transmission Electron Microscopy Study of Grain Boundary Precipitates in an
Fe-Ni-Mn Maraging Steel

Iranian Journal of Materials Science and Engineering, 2006, Vol. 3, p6-12, H. Arabi, M.
Divandari and A.H.M. Hosseini
The Effect of Ti Content on the Amounts of Inclusions Formation and Mechanical
Properties of C300 High Strength Steel

Journal of Materials Processing Technology, 2007, In press, *M.H. Parsa, *M.N.
Ahmadabadi, *H. Shirazi, **B. Poorganji and *P. Pournia
*School of Metallurgy and Materials Engineering, University of Tehran
**Institute for Material Research, Tohoku University, Sendi, Japan
Evaluation of Microstructure Change and Hot Workability of High Nickel High Strength
Steel Using Wedge Test

Journal of Materials Processing Technology, 2008, Vol. 196, p115-9, H. Sheikh and S.
Serajzadeh
Estimation of Flow Stress Behavior of AA5083 Using Artificial Neural Networks with
Regard to Dynamic Strain Ageing Effect

Metallurgical and Materials Transactions A, 2008, Vol. 39, p19-27, *S. Hossein Nedjad,
M.N. Ahmadabadi and *T. Furuwara
*Faculty of Materials Engineering, Sahand University of Technology, Tanriz, Iran
**School of Metallurgy and Materials Engineering, University of Tehran, Tehran, Iran
***Institute for Materials Research, Tohoku University, Sendai, Japan
Transmission Electron Microscopy Study on the Grain Boundary Precipitation of an Fe-
Ni-Mn Maraging Steel

Materials Science and Engineering A, 2008, Vol. 473, p249-53, S. Hossein Nedjad,
M.R.M. Garabagh, M.N. Ahmadabadi and H. Shirazi
Effect of Further Alloying on the Microstructure and Mechanical Properties of an Fe-
10Ni-5Mn Maraging Steel

Vaccum, 2008, Vol. 82, p521-8, S.R.E. Hoseini, H. Arabi and H. Razavizadeh
Improvement in Mechanical Properties of C300 Maraging Steel by Application of VAR
Process

Journal of Materials Processing Technology, 2008, Vol. 199, p304-13, M.H. Parsa, M.N. Ahmadabadi, H. Shirzai, B. Poorganji and P. Pournia
Evaluation of Microstructure Change and Hot Workability of High Nickel High Strength Steel Using Wedge Test

Materials Science and Engineering A, 2008, Vol. 490, p105-112, *S. Hossein Nedjad,
M.N. Ahmadabadi and *T. Furuhaar
*Faculty of Materials Engineering, Sahand University of Technology, Tanriz, Iran
**School of Metallurgy and Materials Engineering, University of Tehran, Tehran, Iran
***Institute for Materials Research, Tohoku University, Sendai, Japan
Correlation between the Intergranular Brittleness and Precipitation Reactions during Isothermal Aging of an Fe-Ni-Mn Maraging Steel

Materials Science and Engineering A, 2008, Vol. 491, p172-176, M. Iranpour Mobarake, M. Nili-Ahmadabadi, B. Poorganji, A. Fatehi, H. Shirazi, T. Furuhaara, H. Parsa and S. Hossein Nedjad
Microstructural Study of an Age Hardenable Martensitic Steel Deformed by Equal Channel Angular Pressing

International Journal of Modern Physics B, 2008, Vol. 22, p2814-2822, M. Nili-Ahmadabadi, H. Shirazi, A. Fatehi and S. Hossein-Nedjad
Improvement in Mechanical Properties of Fe-Ni-Mn maraging Steel by Heavy Cold Rolling

Materials Science and Engineering A, 2009, Vol. 501, p182-187, S. Hossein Nedjad, S. Meimandi, A. Mahmoudi, T. Abedi, S. Yazdani, H. Shirazi and M. Nili Ahmadabadi
Effect of Aging on the Microstructure and Tensile Properties of Fe-Ni-Mn-Cr Maraging Alloys

Materials Science and Engineering A, 2009, Vol. 503, p156-159, *S. Hossein Nedjad,
M. Nili Ahmadabadi and *T. Furuhaara
*Faculty of Materials Engineering, Sahand University of Technology, Tanriz, Iran
**School of Metallurgy and Materials Engineering, University of Tehran, Tehran, Iran
***Institute for Materials Research, Tohoku University, Sendai, Japan
Annealing Behavior of an Ultra-Fine Fe-Ni-Mn Steel during Isothermal Aging

Scripta Materialia, 2009, Vol. 60, p528-531, S. Hossein Nedjad, J. Teimouri, A. Tahmasebifar, H. Shirazi and M. Nili Ahmadabadi
A New Concept in Further Alloying of Fe-Ni-Mn Maraging Steels

Extrusion Studies:

Thesis:

R.F. Assempour, Thesis (M.S.), 2000, Sharif University
Analyzing of Metal Forming Process using Physical Modeling and Finite Element Method

M. Bagherzadeh, Thesis (M.S.), 2003, Sharif University
Pressure Estimation in Hydroforming of Sheet Metals

Conference Papers:

Proceedings of the 10th International Conference of Mechanical Engineering, Tehran, Iran, 2002, M. Bakhshi-Jooybari and M.S. Hojjati
Finite-Element Simulation and Experimental Study of Cold Aluminum Extrusion

Proceedings of the 5th Iranian Manufacturing Engineering Conference, Amirkabir University of Technology, February 17-20, 2003, D. Radmehr and M. Mosavi
Parts Production by Hydroforming

Proceedings of the 12th International Conference of Mechanical Engineering of Iran, Tehran, Iran, 2004, M. Mosavi and M. Bakhshi-Jooybari
Experimental Study and Finite Volume Simulation of Hot Extrusion of Steel

Proceedings of the 7th Iranian Manufacturing Engineering Conference, November 2005, H. Kashanizedeh and M. Mosavi
Parametric Analysis of Tube Hydroforming for Different Cross Sections with Use of FEM

Proceedings of the 7th Iranian Manufacturing Engineering Conference, November 2005, H. Kashanizadeh and M.M. Mosavi
Analysis of Tube Hydroforming Parameters with FEM for Several Cross-Sections

Proceedings of the 13th International Conference of Mechanical Engineering of Iran, Isfahan, Iran, 2005, M. Noorani-Azad and M. Bakhshi-Jooybari
Optimum Die Profile in Cold Forward Rod Extrusion

Proceedings of the 13th International Conference of Mechanical Engineering of Iran, Isfahan, Iran, 2005, M. Saboori and M. Bakhshi-Jooybari
Optimum Die Profile in Cold Backword Rod Extrusion

3rd Conference of Iranian Society of Material and Metals Forming of Iran, May 2006, G. Faraji and M. Mosavi
Study of the Emperical Parameters in Forming Process of Metal Bellows

Proceedings of the 14th International Conference of Mechanical Engineering of Iran, Isfahan, Iran, 2006, M. Elyasi and M. Bakhshi-Jooybari
Experimental Study of the Effect of Billet Geometry on Metal Flow in Precision Closed-Die Forging

Proceedings of the Japanese Spring Conference for the Technology of Plasticity, Osaka, Japan, 2006, *M. Mousavi, K.I. Mori, K. Hayasi, S. Maki and *M. Bakhshi-Jooybari
*Babol Noshirvani University of Technology
**Department of Material Science and Engineering, Kyoto University, Japan
Mechanism of Improvement and Shape Accuracy in Pulsating Hydroforming of Tube with Box Die

Proceedings of the International Conference on Advances in Mechanical Engineering, Punjab, India, December 1-3, 2006, F. Mohammadi, H. Kashanizadeh and M. Mosavi
Finite Element Modeling and Optimization in Unequal T Joint Tube Hydroforming

AMPT2008 Conference, Manama, Bahrain, 2008, M. Elyasi, A. Gorji, M. Bakhshi-Jooybari and G. Alinejad
A New Die Design for the Hydroforming of Stepped Tubes

AMPT2008 Conference, Manama, Bahrain, 2008, M. Bakhshi-Jooybari, A. Gorji, M. Hosseinzadeh, M. Jamshidi and G. Alinejad
A New Sheet Hydroforming Die for Complex Industrial Parts

12th International Metal Forming Conference, Krakow, Poland, September 21-24, 2008, M. Elyasi, M. Bakhshi-Jooybari, A. Gorji, S. Nourouzi and G. Alinejad
Numerical and Experimental Investigation on Forming Bellows in Closed and Open-Die Hydroforming

Journal Articles:

Journal of Materials Processing Technology, 2002, Vol. 125, p369-374, M. Bakhshi-Jooybari
A Theoretical and Experimental Study of Friction in Metal Forming by the use of the Forward Extrusion Process

Iranian Journal of Engineering, Transactions B: Applications, 2004, Vol. 17, p389-398, A. Assempour, M. Bagherzadeh and M.R. Emani
An Upper Bound Approach for Analysis of Hydroforming of Sheet Metals

JSME International Journal, 2005, Vol. 48, p95-102, A. Assempour and M. Gandomkar
An Energy Method for Analyzing Deep Drawing process by Simulated Annealing Optimization Algorithm

Journal of Materials Processing Technology, 2005, Vol. 164-5, p1572-1577, M. Noorani-Azad, M. Bakhshi-Jooybari, S.J. Hosseinipour and A. Gorji
Experimental and Numerical Study of Optimum Die Profile in Cold Forward Extrusion of Aluminum

Proceedings of the Japanese Spring Conference for the Technology of Plasticity, 2006, p7-8, *M. Lou-Mousavi, **M. Ken-Ichiro, **H. Kentaro, *M. Bakhshi-Jooybari
*Mazandaran University
**Toyohashi University of Technology, Japan
Mechanism of Improvement of Formability and Shape Accuracy in Pulsating Hydroforming of Tube with Box Die

Mechanical and Aerospace Engineering Journal, 2006, Vol. 2, p41-49, G. Faraji, M. Mosavi, H. Kashani Zadeh and M.K. Besharati
Experimental and Finite Element Analysis of Metal Bellows Manufacturing

Journal of Materials Processing Technology, 2006, Vol. 177, 596-599, M. Bakhshi-Jooybari, M. Saboori, S.J. Hosseinipour, M. Shakeri and A. Gorji
Experimental and Numerical Study of Optimum Die Profile in Backward Rod Extrusion

Journal of Materials Processing Technology, 2006, Vol. 177, p684-687, H. Kashani Zadeh and M.M. Mashadi
Finite Element Simulation and Experiment in Tube Hydroforming of Unequal T Shapes

Journal of Materials Engineering Performance, 2007, Vol. 17, p1-6, M. Ganjiani and A. Assempour
Implementation of a Robust Algorithm for Prediction of Forming Limit Diagrams

Iranian Journal of Engineering, Transactions A: Basics, 2007, Vol. 20, p55-66, M. Ganjiani and A. Assempour
The Performance of Karafillis-Boyce Yield Function on Determination of Forming Limit Diagrams

Finite Element Analysis and Design, 2007, Vol. 43, p218-233, M.H. Parsa and P. Pournia
Optimization of Initial Blank Shape Predicted Based on Inverse Finite Element Method

Key Engineering Materials, 2007, Vol. 344, p461-467, M. Loh-Mousavi, K. Mori, K. Hayashi and M. Bakhshi-Jooybari
Improvement of Filling of Die Corners in Box-Shaped Tube Hydroforming by Control of Wrinkling

Journal of Materials Processing Technology, 2007, Vol. 182, p598-607, M. Ganjiani and A. Assempour
An Improved Analytical Approach for Determination of Forming Limit Diagrams Considering the Effects of Yield Functions

Journal of the Faculty of Engineering (University of Tehran), 2007, Vol. 40, p881-894,
H. Kashani Zadeh and M.M. Mashadi
Finite Element Simulation and Experiment in Tube Hydro-Forming of Aluminum T-
Shapes

Journal of Materials and Design, 2007, Vol. 28, p1812-1818, M. Bakhshi-Jooybari, M.
Saboori, M. Noorani-Azad and S.J. Hosseinipour
Combined Upperbound and Slab Method, Finite Element and Experimental Study of
Optimum Die Profile in Extrusion

Proceedings of IMechE, PartB: Engineering Manufacture, 2007, Vol. 221, p1299-1305,
F. Mohammadi, H. Kashanizade and M.M. Mashadi
Optimization using Finite Element Analysis, Neural Network, and Experiment in Tube
Hydroforming of Aluminum T Joints

Journal of Materials Engineering and Performance, 2008, Vol. 17, p1-6, M. Ganjiani and
A. Assempour
Implementation of a Robust Algorithm for Prediction of Forming Limit Diagrams

Steel Research Journal, 2008, Vol. 79, p184-154, M. Elyasi, M. Bakhshi-Jooybari, A.
Gorji, S. Nourouzi and G. Alinejad
Numerical and Experimental Investigation on Forming Metallic Bellows in Closed and
Open Die Hydroforming

Proceedings of IMechE, PartB: Engineering Manufacture, 2008, Vol. 222, p467-483,
A.R. Safikhani, R. Hashemi and A. Assempour
The Strain Gradient Approach for Determination of Forming Limit Stress and Strain
Diagrams

International Journal of Advanced Manufacturing Technology, 2008, Vol. 38, p641-648,
G. Faraji, M.K. Besharati, M. Mosavi and H. Kashanizadeh
Experimental and Finite Element Analysis of Parameters in Manufacturing of Metal
Bellows

Proceedings of IMechE, PartB: Engineering Manufacture, 2008, Vol. 222, M. Loh-
Mousavi, M. Bakhshi-Jooybari, K.I. Mori and K. Hyashi
Improvement of Formability in T-Shape Hydroforming of Tubes by Pulsating Pressure

Materials and Design, 2008, Vol. 29, p1965-1972, R. Azizi and A. Assempour
Applications of Linear Inverse Finite Element Method in Prediction of the Optimum
Blank in Sheet Metal Forming

Iranian Journal of Science and Technology, 2008, Vol. 32, p611-618, *M. Lou-Mousavi,
M. Bakhshi, *K. Mori, ***T. Maeno, M. Farzin and **S.J. Hosseinipour
*Department of Mechanical Engineering, Islamic Azad University, Iran
**Department of Mechanical Engineering, Mazandaran University, Iran
***Department of Production Systems Engineering, Toyohashi University of
Technology, Japan
****Department of Mechanical Engineering, Isfahan University of Technology, Iran
3-D Finite Element Simulation of Pulsating Free Bulge Hydroforming of Tubes

International Journal of Advanced Manufacturing Technology, 2009, Vol. 43, p1-10, F.
Mohammadi and M.M. Mosavi
Determination of the Loading Path for Tube Hydroforming Process of a Copper Joint
using a Fuzzy Controller

Computational Materials Science, 2009, Vol. 45, p195-204, A. Assempour, R. Hashemi,
K. Abrinia, M. Ganjiani and E. Masoumi
A Methodology for Prediction of Forming Limit Stress Diagrams Considering the Strain
Path Effect

Materials and Design, 2009, Vol. 30, p727-740, A.R. Safikhani, R. Hashemi and A.
Assempour
Some Numerical Aspects of Necking Solution in Prediction of Sheet Metal Forming
Limits by Strain Gradient Plasticity

Proceedings of the Institute of Mechanical Engineers, Part B: Journal of Engineering
Manufacturing, 2009, Vol. 223, 821-827, M. Elyasi, M. Bakhshi-Jooybari, A. Gorji, J.
Hosseinipour and S. Nourouzi
New Die Design for Improvement of Die Corner Filling in Hydroforming of Cylindrical
Stepped Tubes

Materials and Design, 2009, Vol. 30, p1350-1355, A. Assempour and A. Hassannejadasl
Minimization of the Exit Profile Curvature in Non-Symmetric T-Shaped Sections in the
Extrusion Process

Journal of Materials Processing Technology, 2009, Vol. 209, p1758-1769, A.
Assempour, A.R. Safikhani and R. Hashemi
An Improved Strain Gradient Approach for Determination of Deformation Localization
and Forming Limit Diagrams

Materials and Design, 2009, Vol. 30, p3824-3830, M. Elyasi, M. Bakhshi-Jooybari and
A. Gorji
Mechanism of Improvement of Die Corner Filling in a New Hydroforming Die for
Stepped Tubes

Proceedings of the Institute of Mechanical Engineers, Part B: Journal of Engineering Manufacturing, 2009, Vol. 223, Article in press, M. Bakhshi-Jooybari, M. Elyasi and A. Gorji

Numerical and Experimental Investigation of the Effect of the Pressure Path on Forming Metal Bellows

Journal of Materials Processing Technology, 2009, Vol. 209, p3431-3437, G. Faraji, M.M. Mosavi and V. Norouzifrad

Evaluation of Effective Parameters in Metal Bellows Forming Process

Materials and Design, 2009, Vol. 30, p3545-3553, R. Hashemi, A. Assempour, E.M. Khalil Abad

Implementation of the Forming Limit Stress Diagram to Obtain Suitable Load Path in Tube Hydroforming Considering M-K Model

International of Material Forming, 2009, M. Elyasi, M. Bakhshi-Jooybari and A.H. Gorji
A New Die Design for the Hydroforming of Stepped Tubes

International Journal of Advanced Manufacturing Technology, 2009, In press, R. Hashemi, G. Faraji, K. Abrina and A.F. Dizaji

Application of the Hydroforming Strain- and Stress-Limit Diagrams to Predict Necking in Metal Bellows Forming Process

Machining Related Studies

Conference Papers:

1998 IEEE International Conference on Robotics and Automation, Leuven, Belgium, 1998, *A. Vafaeseefat and **Hoda A. Elmaraghy

*Now at Engineering Research Centre, Emam-Hossain University (IRGC), Tehran, Iran

**Intelligent Manufacturing Systems Center, University of Windsor, Ontario, Canada

Accessibility Analysis in 5-Axis Machining of Sculptered Surfaces

11th ESAFORM2008 Conference on Metal Forming, Lyon, France, April 23-25, 2008, A. Vafaeseefat

Optimum Blank Shape Design in Sheet Metal Forming by Boundary Projection Method

International Conference on Simulation Based Engineering and Sciences, Venice, Italy, October 16-17, 2008

Blank Shape Design in Sheet Metal Forming by Boundary Projection Method

Journal Articles:

Proceedings of the Institute of Mechanical Engineering, Part B, 1997, Vol. 211, p11-18,

*J.R.R. Mayer, *Y.A. Mir, *F. Trochu, **A. Vafaeseefat and *M. Balazinski

*Mechanical Engineering Department, Ecole Polytechnique, Montreal, Quebec, Canada

** Now at Engineering Research Centre, Emam-Hossain University (IRGC), Tehran,

Iran

Touch Probe Radius Compensation for Coordinate Measurement using Kriging

Interpolation

International Journal of Production Research, 2000, Vol. 38, p2215-2231, *A.

Vafaeseefat and **Hoda A. Elmaraghy

*Now at Engineering Research Centre, Emam-Hossain University (IRGC), Tehran, Iran

**Intelligent Manufacturing Systems Center, University of Windsor, Ontario, Canada

Automated Accessibility Analysis and Measurement Clustering for CMMs

Proceedings of the Institute of Mechanical Engineering, Part B, 2000, Vol. 215, 671-681,

*A. Vafaeseefat and **Hoda A. Elmaraghy

*Now at Engineering Research Centre, Emam-Hossain University (IRGC), Tehran, Iran

**Intelligent Manufacturing Systems Center, University of Windsor, Ontario, Canada

Optimal Workpiece Orientations for Machining of Sculptured Surfaces

Proceedings of the Institute of Mechanical Engineering, Part B, 2001, Vol. 215, p745-

753, *A. Vafaeseefat and **Hoda A. Elmaraghy

*Now at Engineering Research Centre, Emam-Hossain University (IRGC), Tehran, Iran

**Intelligent Manufacturing Systems Center, University of Windsor, Ontario, Canada

Rough Pocketing of Multi-Sculptured Surface Cavities

International Journal of Machine Tools and Manufacture, 2007, Vol. 47, p1625-1635, Y.

Hosseinkhani, J. Akbari and A. Vafaeseefat

Penetration-Elimination Method for Five-Axis CNC Machining of Sculptured Surfaces

International Journal of Material Forming, 2008, Vol. 1, Supplement 1, p189-192, A.

Vafaeseefat

Optimum Blank Shape Design in Sheet Metal Forming by Boundary Projection Method

World Applied Sciences Journal, 2009, Vol. 6, p64-69, R. Jalili Saffar, M.R. Razfar,

A.H. salami and M.M. Khani

Optimization of Machining Parameters to Minimize Tool Deflection in the End Milling

Operation using Genetic Algorithm

Casting/Prototype Studies

Conference Papers:

Sixth European Conference on Rapid Prototyping and Manufacturing, Nottingham, UK, 1997, *S. Rahmati and **P. Dickens

*Manufacturing Engineering Group, Mechanical Engineering Department, Imam-Hussain University (IRGC), Tehran, Iran

**Rapid Manufacturing Research Group, Loughborough University, UK
Rapid Tooling Analysis of Stereolithography Injection Moulding Tooling
Stereolithography Injection Moulding Tooling

Eighth Annual Solid Freeform Fabrication, Texas, 1997, *S. Rahmati and **P. Dickens

*Manufacturing Engineering Group, Mechanical Engineering Department, Imam-Hussain University (IRGC), Tehran, Iran

**Rapid Manufacturing Research Group, Loughborough University, UK
Stereolithography Injection Moulding Tool Failure Analysis

Seventh European Conference on Rapid Prototyping and Manufacturing, Aachen, Germany, 1998, *S. Rahmati, **P. Dickens and **C. Wykes

Tehran International Congress on Manufacturing Engineering (TICME2005), *S. Rahmati and **P. Dickens

*Manufacturing Engineering Group, Mechanical Engineering Department, Imam-Hussain University (IRGC), Tehran, Iran

**Rapid Manufacturing Research Group, Loughborough University, UK
Pressure Effects in Stereolithography Injection Moulding Tools

2nd International Conference on Advanced Research in Virtual and Rapid Prototyping, Leiria, Portugal, 2005, *S. Rahmati and **P. Dickens

*Manufacturing Engineering Group, Mechanical Engineering Department, Imam-Hussain University (IRGC), Tehran, Iran

**Rapid Manufacturing Research Group, Loughborough University, UK
Stereolithography Rapid Tooling for Injection Moulding

Journal Articles:

Rapid Prototyping Journal, 1997, Vol. 3, p53-60, *S. Rahmati and **P. Dickens

*Manufacturing Engineering Group, Mechanical Engineering Department, Imam-Hussain University (IRGC), Tehran, Iran

**Rapid Manufacturing Research Group, Loughborough University, UK
Stereolithography for Injection Mould Tooling

International Journal of Machine Tools and Manufacture, 2007, Vol. 47, p740-747, *S. Rahmati and **P. Dickens

*Manufacturing Engineering Group, Mechanical Engineering Department, Imam-Hussain University (IRGC), Tehran, Iran

**Rapid Manufacturing Research Group, Loughborough University, UK
Rapid Tooling Analysis of Stereolithography Injection Mould Tooling

Rapid Prototyping Journal, 2007, Vol. 13, p115-122, S. Rahmati, J. Akbari and E. Barati
Dimensional Accuracy Analysis of Wax Patterns Created by RTV Silicone Rubber Molding using the Taguchi Approach

Journal of the Faculty of Engineering (University of Tehran), 2007, Vol. 41, p525-533, R.A. Madhavinezhad and Nezaad Gholami
Mechanical and Thermal Stress Analysis in Spindle of Turning Machines

Rapid Prototyping Journal, 2009, Vol. 15, 187-191, S. Rahmati
Piezo-Electric Head Application in a New 3D Printing Design

Rapid Prototyping Journal, 2009, Vol. 15, p255-263, Y. Norouzi, S. Rahmati and Y. Hojjat
A Novel Lattice Structure for SL Investment Casting Patterns

Tsinghua Science and Technology, 2009, Vol. 14, Supplement 1, p24-28, S. Rahmati, F. Shirazi and H. Baghayeri
Perusing Piezoelectric Head Performance in a New 3-D Printing Design

Tsinghua Science and Technology, 2009, Vol. 14, Supplement 1, p108-115, S. Rahmati, M.R. Rezaei and J. Akbari
Design and Manufacture of a Wax Injection Tool for Investment Casting using Rapid Tooling

Gaseous Diffusion Related Studies

Journal Articles:

International Journal for Numerical Methods in Fluids, 2009, Inpress, M. Babaelahi, D.D. Ganji and A.A. Joneidi
Analysis of Velocity Equation of Steady Flows of a Viscous Incompressible Fluid in Channel with Porous Walls

Uranium Hexafluoride Synthesis Related Studies

Conference Papers:

International Conference on Multiphase Flow, Leipzig, Germany, July 9-13, 2007, M. Farzaneh, M. Shams and R. Ebrahimi
A Sensitivity Analysis of Flow Characteristics in Fluidized Beds to Drag Models

Journal Articles:

Iranian Journal of Nuclear Science and Technology, 2008, Vol. 43, p31-40, A. Niksir and A. Rahimi
Mathematical Modeling and Simulation of the Fluorination Reaction of Uranium Dioxide and Evaluation of Existing Gas-Solid Reaction Models

Annals of Nuclear Energy, 2008, Vol. 35, p704-7, M.H. Khani, H. Pahlavanzadeh and M. Ghannadi
Kinetics Study of the Fluorination of Uranium Tetrafluoride in a Fluidized Bed Reactor

Annals of Nuclear Energy, 2008, Vol. 35, p2321-26, M.H. Khani, H. Pahlavanzadeh and M. Ghannadi
Two-Phase Modeling of a Gas Phase Fluidized bed Reactor for the Fluorination of Uranium Tetrafluoride

Journal of Nuclear Science and Technology, 2009, Vol. 46, p50-58, Z. Vatani, J. Safdari, H. Abolghasemi and R. Orouj
Study of UF_6 Gas Flow by using Orifice and Needle Valve under Medium Vacuum Condition and Investigation of Effective Parameters on it

International Communications in Heat and Mass Transfer, 2009, Vol. 36, p757-762, A.A. Joneidi, D.D. Ganji and M. Babaelahi
Differential Transformation Method to Determine Fin Efficiency of Convective Straight Fins with Temperature Dependent Thermal Conductivity

International Communications in Heat and Mass Transfer, 2009, InPress, A.A. Joneidi, D.D. Ganji and M. Babaelahi
Micropolar Flow in a Porous Channel with High Mass Transfer

Chemical Product and Process Modeling, 2009, Vol. 4, Article 19, S. H. Hosseini, M. Zivdar, R. Rahimi and A. Samimi
CFD Simulation of Solid Hold-Up in Gas-Solid Fluidized Bed at High Gas Velocities

Separation Nozzle Aerodynamic Method

Thesis:

S.M. Barough, MSc. Islamic Azad University
Designing of Isotope Separation Unit by Nozzle Process

Conference Papers:

Untitled Conference, Iran, February 2005, M.S. Barough and M. Rahgoshay
Design of a Unit Nozzle Separation

Sixth International Conference of the Balkan Physical Union (BPU6), Turkey, August 22-26, 2006, S.M. Barough, M. Rahgoshay, A. Abaspour, A. Hogabri and M. Ghorannevis
Simulating and Examination of the Separation Stage performance with Rotating Wall

First International Conference on Physics and Technology of Reactors and Applications, Morocco, March 14 – 16, 2007, M.S. Barough, S.A. Milani and M. Ghorannevis
Simulation of the Separation Stage Nozzle

International Nuclear Conference, Kuala Lumpur, Malaysia, June 29 – July 1, 2009, M.S. Barough, S.S. Kashani and M. Rahgoshay
Evaluation and Simulation of the Entrance Gas Variations on Separation Factor in Nozzle Aerodynamic Method

International Nuclear Conference, Kuala Lumpur, Malaysia, June 29 – July 1, 2009, M.S. Barough, S.S. Kashani and M. Rahgoshay
The Simulation and Evaluation of the Effects of Light Gases Helium and Hydrogen in Isotopic Separation with Nozzle Aerodynamic Method

Laser Related Research

Documents/Reports:

AEOI Internal Report	A Proposal to Establish a Center for Research and Development in Laser Technology in Iran
R.K. Mosavi	1975
AEOI Internal Report	Laser Technology Program
R.K. Mosavi	1975

AEOI Internal Report	Results of Studies about the Importance of Different Areas of the Laser Project in Iran
R.K. Mosavi	1975
AEOI-18	Preliminary Design of Experiment High Power Density Laser Beam Interaction with Plasmas and Development of a Cold Cathode Electron Beam Laser Amplifier
R.K. Mosavi	1976
AEOI-45	Preliminary Design of a 300 KeV Electron Gun for a High Power CO ₂ Laser Amplifier
J. Katzenstein	1976
AEOI-64	Design, Construction and Performance of a 6 Watt CO ₂ Laser
M. Hamadani	1976

Special Reports:

H. Golnabi, Research Proceedings, Sharif University of Technology, Water and Energy Research Center, 1992-3

Application of Optical Energy of High-Power Lasers

H. Golnabi, Research Proceedings, Sharif University of Technology, Water and Energy Research Center, 1992-3

Conversion of Laser Energy into Dye Laser Energy

H. Golnabi, Research Proceedings, Sharif University of Technology, Water and Energy Research Center, 1993-4

Laser Power Measurements by Using a Photochemical Method

H. Golnabi, Research Proceedings, Sharif University of Technology, Water and Energy Research Center, 1993-4

Study of Dye Laser Oscillation and Amplification

H. Golnabi, Research Proceedings, Sharif University of Technology, Water and Energy Research Center, 1994-5

Study of Dye Laser Oscillation and Amplification

H. Golnabi, Research Proceedings, Sharif University of Technology, Water and Energy Research Center, 1997-8

Design and Construction of Power Supply for Semiconductor Lasers

H. Golnabi, Research Proceedings, Sharif University of Technology, Water and Energy Research Center, 1998-9
Design and Construction of Power Supply for Semiconductor Lasers

H. Golnabi, Research Proceedings, Sharif University of Technology, Water and Energy Research Center, 2000-1
Simulation of Two- and Three-Electrode Spark Gaps

P. Parvin, G.R. Davoud-Abadi, H. Kariminezhad and Z. Zamanipoor, ESA-SP-561, European Space Agency, June 2004
The Remote Sensing of Radioactive Plumes with a Hybrid System Including Gamma Spectroscopy and DIAL Lidar

Thesis:

M. Noorani, Thesis (M.S.), 2007, Islamic Azad University
Design and Fabrication of TEA Laser

P. Noori, Thesis (M.S.), 2007, Islamic Azad University
Modifying N₂ Laser Beam by Changing Pre-Ionization

Conference Papers:

Iran Conference on the Transfer of Nuclear Technology, Persepolis/Shiraz, April 10, 1977, S.M. Hamadani
Development of Laser Devices of Interest for Nuclear Applications in Iran: A Case Study of Parallel Technology Transfer

Iran Conference on the Transfer of Nuclear Technology, Persepolis/Shiraz, April 10, 1977, R.K. Mosavi
Laser Technology Transfer

Topical Meeting on Inertial Confinement Fusion, San Diego, CA, 1978, S.M. Hamadani
Nanosecond CO₂ Single-Beam Target Irradiation

Proceedings of the International Conference on Electrical Machines, Brussels, Belgium, 1978, M.Z. Iqbal
A Thyristor Booster Supply

CLEO 81. Conference on Lasers and Electro-Optics, Washington, D.C., 1981, M.R. Taghizadeh
12.8 μm NH₃ Laser Emission with Up to 30% Energy Conversion and 40-60% Power Conversion Efficiencies

Proceedings of MELECON '87: Mediterranean Electrotechnical Conference and 34th Congress on Electronics Joint Conference, Rome, Italy, 1987, M.H. Rahnavaad
Loss Calculation, in Symmetrically Infinite Strip Unstable Optical Resonator Using Different Techniques

Proceedings of the National Conference on Lasers and Their Applications, Atomic Energy Organization, September 12-6, 1987, H. Golnabi
Design and Construction of Dye Laser Components

Optoelectronic Devices and Applications, San Diego, USA, 1990, M.H. Rahnavaad
Effect of Grating Shapes on Bandwidth and Power of Distributed Feedback Lasers

Optoelectronic Devices and Applications, San Diego, USA, 1990, M.H. Rahnavaad
Phase and Amplitude Reconstruction of High Power DFB Semiconductor Diode from the Study of its Output Power

Fiber Optic and Laser Sensors VIII, San Jose, USA, 1990, M.H. Rahnavaad
Tunability of Cascaded Gratings Which is used in Distributed Feedback (DFB) Laser

Devices for Optical Processing, San Diego, USA, 1991, M.H. Rahnavaad
Tapered DBR for Improving Characteristics of DFB and DBR Lasers

Annual Physics Conference, Isfahan University, 1991, P. Parvin and R. Sadighi
The Simulation of Electrical Discharge and the Study of Temporal Response of Current and Voltage in Blumelein Circuit of High Power Short Pulse Lasers

Ninth International Symposium on Gas Flow and Chemical Lasers, Crete, Greece, 1992, A.R. Bahram-Pour
A Double Grid Corona Discharge TEA CO₂ Laser

Ninth International Symposium on Gas Flow and Chemical Lasers, Crete, Greece, 1992, A. Shojai
Gain and Output Power Calculation in Plasma Injection Laser

Ninth International Symposium on Gas Flow and Chemical Lasers, Crete, Greece, 1992, M.H. Rahnavaad
Optimization of First Order Trapezoidal Gratings used in DFB and DBR Lasers

Ninth International Symposium on Gas Flow and Chemical Lasers, Crete, Greece, 1992, M. Shojai, M.A. Bolorizadeh, A.R. Bahram-Pour, M. Rahnama, and E. Medizadeh
Effect of Nozzle Shape on Small Signal Gain in Gasdynamic Laser

The Second International Laser and Its Applications Conference, AEOI, Tehran, Iran, 1993, P. Parvin, R. Sadighi and A. Zareh

The Computer Simulation of N₂ Laser in Order to Optimize Output Power at Various C-B Vibrational Transitions

The Second International Laser and Its Applications Conference, AEOI, Tehran, Iran, 1993, P. Parvin, A. Saliminia and A. Zareh

Fabrication and Optimization of a Series Oscillator-Amplifier of N²⁺ Laser

Annual Iranian Conference of Physics, Sanandaj University, Iran, 1994, M.S. Zafarani, P. Parvin and R. Sadighi

Fabrication and Optimization of Oscillator-Amplifier of Atomic Fluorine Laser

Annual Iranian Physics Conference, Urmieh University, Iran, 1995, P. Parvin and R. Sadighi

Design and Fabrication of XeF Excimer Oscillator Amplifier in Order to Determine Small Signal Gain and Saturation Intensity of the Amplifying Medium

Iranian Conference on Physics, 1996, H. Golnabi

Study of Electrical Discharges in Two- and Three-Electrode Designs

Annual Iranian Physics Conference, Gilan University, 1997, P. Parvin, K. Mirabas Zadeh and B. Jaleh

Solving the Boltzman Transport Equation in Order to Determine the Electron Energy Distribution of Excimer Laser Plasma

National Seminar and Workshop on Lasers and Their Applications, Tehran, April 30 – May 1, 1997, R. Sadighi-Bonabi

Emission Characteristics and Optimization of Eximer Laser

1st National Conference on Optimization and Its Applications, Mashhad, Iran, 1997, A. Bahmrampour

Effect of Shock Waves on Optimal Gain in Gasdynamic Lasers

The Preliminary Conference on Military Applications of Lasers, Emam Hussein University, Tehran, Iran, 1998, P. Parvin

The Antisensor Lasers

Proceedings of the 1998 International Conference on Pulsed Power, Praha, Czech Republic, B. Marghechi, S. Mirzanejhad, and A. Tavakoli

Magneto-resonance in Free Electron Lasers with Electromagnetic and Magnetostatic Wiggler

Annual Physics of Iran, Babolsar University, Iran, 1999, P. Parvin, R. Sadighi and K. Azizi

Design, Fabrication and Operation of a KrF Excimer Laser

Annual Physics of Iran, Babolsar University, Iran, 1999, P. Parvin, R. Sadighi and Z. Zamanipour
Design and Fabrication of a KrF Laser Pumped Dye Laser

Proceedings of the International Topical Conference on Plasma Physics, Trieste, Italy, 1999, B. Farokhi, B. Maraghechi and J.E. Willet
Space-Charge and Cyclotron Waves in a Raman Free-Electron Laser

The Conference on Laser Application in Armed Forces, The Optics and Laser Research Center, Malek Ashtar University, Isfahan, Iran, 2001, P. Parvin, A. Eslami and N. Amirirad
The Latest Progress in Antisensor Lasers and Their Defense Applications

Annual Physics Conference of Iran, Sabzevar University, Iran, 2001, A. Koohain, P. Parvin and M.F. Kimmitt
The Photon Drag Detector for Optical Pumping of FIR Lasers

Annual Physics Conference, Zanjan University, Zanjan, Iran, 2002, P. Parvin, A. Eslami and Z. Zamanipour
Design and Fabrication of KrF Laser Pumped Dye Laser with Narrow Spectral Width in Order to Measure the Small Signal Gain and Saturation Intensity of the Gain Medium

The Ninth Photonics Conference of Iran, Iran Communications Research Center, Tehran, Iran, 2002, P. Parvin, B. Sajad and Z. Zamanipour
The Behavior of Gain Parameters of an Oscillator-Amplifier of Copper Vapor Laser

International Conference on Lasers, Applications, and Technologies, Moscow, Russia, 2002, H. Ghomi
Effect of Axial External Magnetic Field on the Output Power of a CuBr Laser

Eleventh International Laser Physics Workshop, Bratislava, Slovakia, 2002, S. Jelvani
Dual Wavelength Dye Laser Pumped by a Copper Vapor Laser

Proceedings of CAOL'2003. 1st International Conference on Advanced Optoelectronics and Lasers, Alushta, Crimea, Ukraine, 2003, S. Saghafi
Characterising Output Beams of Unstable Laser Resonators Employing Modal Analysis

Workshop on Plasma Physics, Trieste, Italy, 2003, *M.H. Mahdih and **T.N. Hall
* Department of Physics, Iran University of Science and Technology, Tehran, Iran
** Department of Physics, University of Essex, Essex, UK
Characterization of Dense Plasmas Produced by Sub-Nanosecond Laser Pulses

Annual Physics Conference of Iran, Tabriz, Iran, August 25-8, 2003, S. Behrouzinia, P. Parvin, R. Sadighi, and H.L. Ghasem
Measurement of the Electrical and Photonic Parameters of a Copper Vapor Laser in an Oscillator-Amplifier Array

Annual Physics Conference of Iran, Tabriz, Iran, August 25-8, 2003, A. Majdabadi and H. Dashtizadeh

The First Diode-Pumped Solid-State-Lasers with End Pumping in Iran

Annual Physics Conference of Iran, Tabriz, Iran, August 25-8, 2003, S. Jelvani, B. Khodadosi, and R. Sadighi

Dual Wavelength Dye Laser and Gain Combination Effect

International Conference of Physics, Amirkabir University of Technology, Tehran, January 6-9, 2004, Ghoreyshi, K. Rahimian, and A. Hariri

Double-Pass Amplification in a Longitudinally Excited Low Pressure N₂-Laser

International Conference of Physics, Amirkabir University of Technology, Tehran, January 6-9, 2004, P. Parvin, M.A. Basam, Z. Zamanipour, N. Boyok and H. Karimejad
SF₆ Laser Remote Sensing by CO₂ Laser-DIAL Laser

7th International Conference on Optoelectronics, Fiber Optics and Photonics, Kochin, India, 2004, M.H. Mahdieh

Two-Dimensional Simulation of Thermal Blooming Effects in Ring Laser Pattern

15th International Symposium on Gas Flow and Chemical Lasers, Prague, Czech Republic, 2004, M.H. Mahdieh

Induced Thermal Distortion Effects in Active Unstable Optical Resonators with Non-Uniform Gain

The Second International Conference in Nuclear Science and Technology, Shiraz University, Iran, April 2004, P. Parvin, G.R. Davoud-Abadi, Z. Zamanipour and H. Kariminezhadeh

A Hybrid Gamma Spectrometer-DIAL Lidar System for the Remote Sensing of Radioactive Plumes

Proceedings of the 2004 FEL Conference, August 29 – September 3, 2004, P. Parvin, G.R. Davoud-Abadi, A. Basam, B. Jaleh, Z. Zaminpour, B. Sajad, and F. Ebadpour
A Mode Locked UV-FEL

Proceedings of the 2004 FEL Conference, August 29 – September 3, 2004, B. Marghechi, H. Aghahosseini, and A.A. Kordbacheh

Wiggler Effect on the Growth Rate of a Raman Free-Electron Laser with Axial Magnetic Field or Ion-Channel Guiding

3rd International Conference on Superstrong Fields in Plasmas, Varenna, Italy, 2005, M.H. Mahdieh

Optical Reflectivity of Multilayer Dense Plasma Produced by Ultra-Short Pulsed Power Lasers

Workshop on Plasma Physics, Trieste, Italy, 2005, M.H. Mahdieh
Evaluation of Ion Plasmas Produced by Pulsed Lasers in Electrostatic Fields

Iranian Nuclear Conference, Bushehr, Iran, February 23-4, 2005, P. Parvin, B. Jahl, and
Z. Zamanipour
Remote Plume Tracing of Trans-Uranium Elements by a Hybrid Photoswitch-DIAL
Lidar System Coupled with a Tunable UV Laser

XV International Symposium on Gas Flow, Chemical Lasers, and High-Power Lasers,
March 23, 2005, M.H. Mahdieh, M. Shirmahi and A. Sharafi
Induced Thermal Distortion Effects in Active Unstable Optical Resonators with
Nonuniform Gain

CLEO Europe/EQEC, Munich, Germany, June 12-17, 2005, P. Parvin, G.R.
Davoudabadi and Z. Zamanipour
Remote Element Tracing of Trans-Uranium Plumes Using an Interactive UV Laser DIAL
Coupled with a Photoswitch Detector

XXVIIth ICPIG, Eindhoven, the Netherlands, July 18-25, 2005, M. Kaviani, M.J.
Torkamany, M. Zand, and M. Ghorannevis
Sealed Off Operation of a High Repetition Rate TEA CO₂ Laser

Annual Physics Conference of Iran, Lorestan, Iran, August 25–September 1, 2005, S.
Behrouzinia, R. Sadighi, P. Parvin, and S. Abolhosseini
Experimental Investigation of the Independence of the Total Output Power of Copper
Vapor Laser on the Stimulated Emission Cross Section

Asia-Pacific Microwave Conference, December 4-7, 2005, M. Esmaeilzadeh
Self-Fields Effects on Gain in an Ion-Channel Free-Electron Laser

7th Australasian Conference on Optics, lasers and Spectroscopy, December 5-9, 2005,
Rotorua, New Zealand, M. Zand
Study of the Effect of Copper Electrodes on Efficiency in a Large Bore Copper vapor
Laser

7th Australasian Conference on Optics, lasers and Spectroscopy, December 5-9, 2005,
Rotorua, New Zealand, M. zand, D. salehinia, K. Khorasani and B. Kia
Flip-Flop Thyratrons Structures used in Metal Vapor Laser Power Supplies

Workshop on Laser Applications in Europe, December 9, 2005, M.H. Mahdieh, M.
Shirmahi and M. Alavi-Nejad
Beam Quality in Unstable Optical Resonators and the Effects of Misalignment

International Symposium on Gas Flow, Chemical Lasers and High-Power Lasers,
Gmunden, Austria, September 4, 2006, M.H. Mahdih, M. Shirmahi and M. Lafooti
Investigation of Variable Reflecting Mirrors Effects in Beam Quality of Unstable Optical Resonators

XVI International Symposium on Gas Flow, Chemical Lasers, and High Power Lasers,
April 26, 2007, M.H. Mahdih, M. Shirmahi and M. Lafooti
Investigation of Variable Reflecting Mirrors Effects in Beam Quality of Unstable Optical Resonators

International Conference on Ultra Intense Laser Interaction Sciences, Bordeaux, France,
2007, M. Shirmahli, R. Fazeli, M.H. Mahdih and G. Tallents
X-Ray Yield Enhancement from Metal Nano-Targets Irradiated by Long Pulsed Laser

International Conference on Ultra Intense Laser Interaction Sciences, Bordeaux, France,
2007, M. Shirmahli, M. Nikbakht, M.H. Mahdih and G. Tallents
Numerical Evaluation of Ka Emission from Two Layer Targets Irradiated by Short Pulse Lasers

Journal Articles:

Physica Scripta, 1974, Vol. 10, p145-8, A. Anvari
The Characteristics of a 40 kV Multistage Spark Gap

IEEE Transaction on Industry Applications, 1975, Vol. IA-11, p158-64, K.Y. Nikravesh
Lyapunov Stability Analysis of Thyristor Inverter System

Applied Optics, 1976, Vol. 15, p793-5, Y. Kohanzadeh
Hot Splices of Optical Waveguide Filters
Journal of Applied Physics, 1976, Vol. 47, p177-9, Y. Kohanzadeh
Injection Laser Coupling to Optical Waveguides with Integral Lenses

Applied Optics, 1978, Vol. 17, p3500-2, H. Madjidi-Zolbanine
Spatial Coherence of a Ruby Laser Beam by Interferometry

Optics Communications, 1980, Vol. 34, p445-6, M.R. Taghizadeh
A Simple and Efficient Optically Pumped NH₃ Laser System

Applied Physics Letters, 1981, Vol. 39, p32-4, M.R. Taghizadeh
12.8-um NH₃ Laser Emission With 40-60% Power Conversion and Up to 28% Energy Conversion Efficiency

Applied Physics, 1982, Vol. B28, p237-8, M.R. Taghizadeh
Efficient Multi-kW Mid Infra-Red Difference Frequency Generated in CdGeAs₂

- IEEE Journal of Quantum Electronics, 1982, Vol. QE-18, 1239-42, M.R. Taghizadeh
Efficient Multikilowatt Mid Infrared Difference Frequency Generated in CdGeAs₂
- Scientific Bulletin of the Atomic Energy Organization of Iran, 1983, Vol. 3, p62-79, A. Hariri, M. Tarkashvand, F. Ardvani and A.A. Yarghchi
Experimental Investigation of the TE N₂ Laser
- Scientific Bulletin of the Atomic Energy Organization of Iran, 1983, Vol. 4, p36-64, S.M. Hamedani, A.A. Yarghchi, F. Madah, F. Soltanmoradi and M.H.B. Marvasti
Comparison of the Characteristics of a CO₂ Gas Laser with the Parameters Obtained by the Five-Temperature Theoretical Model
- Scientific Bulletin of the Atomic Energy Organization of Iran, 1986, Vol. 5, p1-10, A. Hariri, M. Tarkashwand, A. Karimi and F. Ardvani
Nitrogen Laser-Pumped Dye Lasers
- Scientific Bulletin of the Atomic Energy Organization of Iran, 1986, Vol. 5, p19-26, A. Behgat, F. Soltanmoradi, S.A. Naimi and K. Atighechi
Design and Construction of High Power CW CO₂ Lasers
- Scientific Bulletin of the Atomic Energy Organization of Iran, 1988, F. Soltanmoradi and S.A. Naimi
Design and Construction of Mini TEA CO₂ Laser with Spark Array Preionization
- Microwave and Optical Technology Letters, 1989, Vol. 2, p175-9, M.H. Rahnavard
Comparative Analysis of Infinite Strip Unstable Optical Resonators
- Microwave and Optical Technology Letters, 1989, Vol. 2, p321-5, M.H. Rahnavard
Magnitude and Phase of the Electric Field of Infinite-Strip, Unstable Optical Resonators Using Different Techniques
- Microwave and Optical Technology Letters, 1990, Vol. 3, p372-5, O.R. Moheimany
Tunability of Cascaded Grating Used in Distributed Feedback Laser
- Journal of Electromagnetic Waves and Applications, 1990, Vol. 4, p573-94, M.H. Rahnavard
Comparative Analyses of Spherically Symmetric Unstable Optical Resonators with Circular Apertures
- Microwave and Optical Technology Letters, 1990, Vol. 3, p643-7, A. Bakhtazad
Tapered Corrugation for Improving Characterization of DFB and DBR Lasers
- Review of Scientific Instruments, 1990, Vol. 61, p1408-12, A. Hariri
Corona-Preionized Nitrogen Laser with Variable Pulse Width

Review of Scientific Instruments, 1990, Vol. 61, p2247-8, A. Hariri
Generation of Single Longitudinal Mode in a Pulsed Passively Q-Switched Nd:YAG Laser

Electric Power Systems Research, 1991, Vol. 22, p195-201, S.H. Hosseini
New Definition of Reactive Power and Implementation of Wide Bandwidth Parameters

Review of Scientific Instruments, 1992, Vol. 63, p5804-5, H. Golnabi
Reliable Spark Gap Switch for Laser Triggering

IEEE Journal of Quantum Electronics, 1993, Vol. 29, p1192-8, H. Golnabi
Nitrogen Laser Charging Process Investigation

Optics Communications, 1994, Vol. 108, p84-90, A.H. Farahbod
Application of Generalized Self-Filtering Unstable Resonators to a N₂-Laser Pumped Dye Laser

Review of Scientific Instruments, 1994, Vol. 65, p2798-801, H. Golnabi
Design and Construction of a High-Precision Computer-Controlled Monochromator

Review of Scientific Instruments, 1994, Vol. 65, p3030-1, H. Golnabi
Triggerable Spark Gap Switches for Pulsed Gas Lasers

Optics and Laser Technology, 1996, Vol. 28, p203-05, M.S. Zaeferani, P. Parvin, and R. Sadighi
Pressure Dependence of the Spectral Lines of a High Power, High Pressure Atomic Fluorine Laser Pumped by a Charge Transfer from He⁺²

Optics and Laser Technology, 1996, Vol. 28, p207-11, A. Saliminia
The Small Signal Gain and the Saturation Intensity Measurement of the Nitrogen Ion Laser

International Journal of Engineering, 1996, Vol. 9, p143-50, H. Golnabi
The Study of Breakdown Voltages for Triggered Spark Gap Switches

Optics and Laser Technology, 1997, Vol. 29, p135-43, F. Shojaei
On the Modelling of the Power Extraction Problem from a Gas-Dynamic CO₂ Laser Considering the Variations of Intensity

Canadian Journal of Physics, 1998, Vol. 76, p495-9, F. Hajiesmaeilbaigi
Ultrashort-Pulse Generation by Self Mode Locked Ti:Sapphire Lasers Without Apertures and With Low Pumping Power

Scientia Iranica, 2000, Vol. 7, p19-24, A. Bahrampour, R.M. Farrahi and M. Radjabalipour
Optimal Gain in CO₂-N₂-H₂O Gasdynamic Lasers with Shock Free Active Medium

International of Engineering, 2000, Vol. 13, p1-15, H. Golnabi
Power Supply and Current Modulation Circuits for Semiconductor Lasers

Iranian Journal of Physics Research, 2000, Vol. 2, p38-, J. Sabbaghzadeh, S. Dadras and
Z. Haghi
Design and Construct of a Tunable Semiconductor Laser

Review of Scientific Instruments, 2000, Vol. 71, p413-9, H. Golnabi
Comparison between the Discharge Development in Two- and Three-Electrode Spark
Gap Switches

Journal of Nuclear Science and Technology (AEOI), 2000, Vol. 21, A. Hariri
Performance of Nd:YAG Lasers in Coupled Generalized Self-Filtering and Positive-
Branch Unstable Resonators

Physical Review E, 2000, Vol. 61, p7046-51, *B. Maraghechi, **B. Farrokhi, ***J.E.
Willet, and ****U.-H. Hwang
*Institute for Studies in Theoretical Physics and Mathematics, Tehran
**Department of Physics, Amirkabir University, Tehran
***Department of Physics and Astronomy, University of Missouri-Columbia
****Physics Department, Korea University of Technology and Education, Chunan,
Korea
Equilibrium Orbit Analysis in a Free-Electron Laser with a Coaxial Wiggler

Journal of Scientific and Industrial Research in Iran, 2001, Vol. 12, p77-87, A.
Bahrapour, R.M. Farrahi and M. Radjabalipour
Optimal Nozzle Shapes of CO₂-N₂-H₂O Gasdynamic Lasers

Measurement Science and Technology, 2001, Vol. 12, p478-81, A. Koohian, P. Parvin
and M.F. Kimmitt
Photon Drag Detectors for CW Optically Pumped FIR Lasers

Journal of Nuclear Science and Technology (AEOI), 2002, Vol. 25, p1-8, S. Ghoreyshi,
A.H. Farahbod and A. Hariri
Experimental Investigation of Generalized Self-Filtering Unstable Resonator in a
Longitudinally Excited Molecur Nitrogen Laser

Scientia Iranica, 2002, Vol. 9, p116-24, S. Khorsani and H. Golnabi
FEM Simulation of Two and Three-Electrode Spark Gap Discharges

International Journal of Numerical Methods in Fluids, 2002, Vol. 38, p1027-44, A.R.
Bahrapour
A Simplified Quasi-Two-Dimensional Model for Gain Optimization in Carbon Dioxide
Gasdynamic Lasers (GDL)

Review of Scientific Instruments, 2002, Vol. 73, p225-6, A. Amjadi
Spatial Mode Control of a CO₂ Laser by Use of Controllable Back Mirror Focal Length

Review of Scientific Instruments, 2002, Vol. 73, p4014-21, H. Golnabi
The Effect of Electrical Parameters on the Simulated Spark Gap Discharge Current

Journal of Nuclear Science and Technology (AEOI), 2002, Vol. 25, p497-506, H. Golnabi
Temporal and Spatial Behaviors of Discharge in Nitrogen Gas between Two-Parallel-Plane Electrodes

IEEE Transactions on Plasma Science, 2002, Vol. 30, p301-9, H. Golnabi
Discharge Current Development in Two-Electrode Spark Gap Switches

International Journal for Numerical Methods in Fluids, 2002, Vol. 38, p1027-44, A.R. Bahrapour, R.M. Farrahi, and M. Radjabalipour
A Simplified Quasi-Two-Dimensional Model for Gain Optimization in Carbon Dioxide Gasdynamic Lasers (GDL)

Journal of Science, Islamic Azad University, 2002, No. 45, p3653-62, H. Golnabi, A. Koohian, F. Esmailbagy, E. Drabi and L. Rozbeh
Optimization of Optical Pumping of Nd:YAG Crystal using Laser Diodes

Journal of Physics D, 2003, Vol. 36, p9-18, A. Bahrapour
Power Extraction Modelling in the Externally Pumped 16 μ m Gasdynamic Lasers: Modelling and Optimization

Journal of Nuclear Science and Technology (AEOI), 2003, Vol. 26, p1-9, K. Rahimian, H. Farahbod and A. Hariri
Nd:YAG (2w) Pumped Dye Laser using Self-Filtering Unstable Resonator (SFUR)

Journal of Nuclear Science and Technology (AEOI), 2003, Vol. 26, p10-16, D. Salehinia and K. Khorasani
Pulsed Power Supplies in CVL Lasers

Journal of Nuclear Science and Technology (AEOI), 2003, Vol. 29, p17-24, A. Hariri, M. Torkashvand and A.H. Farahbod
Experimental Study of an Oscillator-Amplifier Transversely Excited Molecular Nitrogen Laser System

Hadronic Journal, 2003, Vol. 26, p101-18, A. Bahrapour
A Semiclassical Model for Theoretical Study of the Injection Locking Transversely Excited Atmospheric Pressure TEA CO₂ Laser

Applied Optics, 2003, Vol. 42, p1013-18, S. Behrouzina
Pressure Dependence of the Small-Signal Gain and Saturation Intensity of a Copper Vapor Laser

Applied Physics B, 2003, Vol. B76, p749-53, A. Bahrapour
A Quasioine-Dimensional Model for Cascade Gasdynamic Lasers

Scientia Iranica, 2003, Vol. 10, p449-53, A.R. Bahrapour and M.B. Marashi
A Compact Simple Structure TEA CO₂ Laser with Dielectric Corona Preionization

Optics and Laser Technology, 2003, Vol. 35, p415-23, H. Golnabi
Thermal Considerations of the Design and Operation of Lens Ducts

Laser Physics, 2003, Vol. 13, p1275-8, S. Jelvani, B. Khodadoost, E. Mohajerani and R. Sadighi
Dual Wavelength Dye Laser Pumped by a Copper Vapor Laser

Journal of Physics D, 2003, Vol. 36, p2487-97, A. Bahrapour
Theoretical Analysis of Electrical Transient Behavior in TEA CO₂ Laser with Dielectric Corona Pre-Ionization

Journal of Plasma Physics, 2004, Vol. 70, p9-24, *M. Esmailzadeh, *H. Mehdian, and **J.E. Willett

Guiding, and Parallel/Reversed Axial Magnetic Field

*Department of Physics, Teacher Training University, Tehran, Iran

**Department of Physics and Astronomy, University of Missouri-Columbia, Columbia, Missouri

Electron Trajectories in a Free-Electron Laser with Helical Wiggler, Ion-Channel

Journal of Nuclear Science and Technology (AEOI), 2004, Vol. 31, p13-7, M. Zand, D. Salehinia, K. Khorasani and B. Kia

Paralled Thyratrons Structure used in Metal Vapor Laser Power Supplies

Iranian Journal of Physics Research, 2004, Vol. 4, p209-216, M.H. zandi and A. Bahrapour

A Theoretical Study of the Injection Locking TEA-CO₂ Laser

Japanese Journal of Applied Physics, Part 1, 2004, Vol. 43, p824-6, H. Ghomi

Effect of an External Magnetic Field on the Output Power of a CuBr-Ne Laser

Physics of Plasma, 2004, Vol. 11, p3904-10, F. Sohbatzadeh

The Influence of an External Magnetic Field on a Radio Frequency Excited CO₂ Laser

Optics Communications, 2004, Vol. 238, p139-49, S. Ghoreyski

Gain and Saturation Energy Measurements in Low Pressure Longitudinally Excited N₂ Lasers

Laser Physics, 2004, Vol. 14, p1050-3, S. Behrouzinia, R. Sadighi-Bonabi, P. Parvin and M. Zand

Temperature Dependence of the Amplifying Parameters of a Copper Vapor Laser

Journal of Nuclear Science and Technology (AEOI), 2005, Vol. 32, p9-14, K. Silakhori, F. Soltanmoradi, M. Montazerghaem, and R. Sadr

Single Mode Operation of a TEA CO₂ Laser by a CW CO₂ Laser Radiation Injection

Physics Letters A, 2005, Vol. 335, p295-303, S.H. Tavassoli and H. Latifi

Magnetic Field Effects on Electrical Parameters of rf Excited CO₂ Lasers

Acta Physica Polonica, 2005, Vol. 107, p895-906, S. Saviz and H. Mehdian

The Effect of Ion-Channel Guiding on the Chaotic Electron Trajectories in a Free Electron Laser

Journal of Nuclear Science and Technology (AEOI), 2005, Vol. 33, p21-6, R.

Mohammadpour, R. Sedighi, F. Soltanmoradi, and M. Zand

CuCl-Ne Laser Construction and Optimization of Specific Output Power

Journal of Nuclear Science and Technology (AEOI), 2005, Vol. 34, M. Aram

Characteristics of a Trigatron with Homo and Hetero-Polar Trigeering Configurations

Journal of Nuclear Science and Technology (AEOI), 2005, Vol. 35, p15-23, K. rahimian, S. Ghoreyshi and A. Hariri

Study of the Effect of N₂ Gas Purity and the Length of the Active Medium on Laser Parameter in an Oscillator-Amplifier N₂ Laser System

Japanese Journal of Applied Physics, 2005, Vol. 44, p7972-75, H. Ghomi and H. Latifi

Experimental Investigations of Z Dependence of External Magnetic Field on Magnetic Excitation of CuBr Laser

Iranian Journal of Science and Technology, Transaction A, 2005, Vol. 29, p401-410,

M.H. Mahdieh and M. Alavi-Nejad

A new Method for Electric Field Optimization in High Power Laser Multilayers

Optical Engineering, 2005, Vol. 44, 096001, M.H. Mahdieh

Two-Dimensional Simulation of Ring Pattern Laser Beam Propagating in Atmosphere

Iranian Journal of Science and Technology, Transaction A, 2006, Vol. 29, p401-410,

M.H. Mahdieh

A New Method for Electric Field Optimization in High Power Laser Multilayers

Canadian Journal of Physics, 2006, Vol. 84, p223-40, *S. Saghafi, **M.J. Withford, and *Z. Ghoranneviss

* Plasma-Physics Research Center, Islamic-Azad University, Tehran

**Department of Physics, Macquarie University, Sydney, Australia

Characterizing Flat-Top Laser Beams Using Standard Beam Parameters

Canadian Journal of Physics, 2006, Vol. 84, p241-52, *S. Saghafi, **M.J. Withford, and **J.A. Piper

*Plasma-Physics Research Center, Islamic-Azad University, Tehran

**Department of Physics, Macquarie University, Sydney, Australia

Propagation of Laser Beams Formed by Unstable Resonators with Different

Magnifications

Laser Physics Letters, 2006, Vol. 3, p480484, M.J. Torkamany, M. Kaviani and M. Zand
Experimental Study of Sealed Off Operation of a High Repetition Rate TEA CO₂ Laser

Laser Physics, 2006, Vol. 16, p447-54, K. Rahimian, S. Ghoreyshi and A. Hariri
Behavioral Studies of Gain and Saturation Energy Density in a N₂ Laser with Corona
Preionization

Plasma Physics and Controlled Fusion, 2006, Vol. 48, p991-1003, H. Mehdian and A. Raghavi

Kinetic Description of a Wiggler Pumped Ion-Channel Free Electron Laser

Laser Physics, 2006, Vol. 16, p1616-20, S. Behrouzinia, A.R. Namdar, M. Zand, R. Barry, and A. Hojabri

Effect of a Magnetic Pulse Compression Circuit on the Operation of a Halide Laser

Optics Communications, 2007, Vol. 272, p168-74, S. Ghoreyshi, K. Rahimian, and A. Hariri

Polarization-Dependent Gain and Saturation Energy Density in a TE N₂-Laser Amplifier

Optics and Laser Technology, 2007, Vol. 39, p182-8, S. Jelvani and B. Khodadoost

Gain Competition Effect in Dual-Wavelength Dye Lasers

Quantum Electronics, 2007, Vol. 37, p325-30, R. Sadighi-Banabi, F. Soltanmoradi, R. Mohammadpour, M. Tavakoli and M. Zand

Study of the Dependence of the Specific Output Power of a Copper Chloride Laser on the Radial Temperature Profile of a Gas Plasma

Optics and Laser Technology, 2007, Vol. 39, p669-80, M.H. Mahdiah, M. Shirmahi and M. Mosavi

Numerical Characterizations of Unstable Optical Resonators and Evaluation of the Geometry Effects

Optics and Laser Technology, 2007, Vol. 39, p1014-9, A. Bahrapour, R. Fallah, A.A. Ganjovi and A. Bahrapour

Theoretical Investigation of Dielectric Corona Pre-Ionization TEA Nitrogen Laser Based on Transmission Line Method

Physics of Plasmas, 2007, Vol. 14, 053104, T. Mohsenpour, B. Maragheci and S. Mirzanejhad

Unstable Coupled-Mode Structures in a One-Dimensional Raman Free-Electron Laser

Physics of Plasmas, 2007, Vol. 14, 053114, S. Babaei and B. Maraghechi

Kinetic Description of a Plasma-Loaded Free-Electron Laser

Iranian Journal of Physics Research, 2008, Vol. 8, p12-, M. Zand, S.A. Naeimi and M. Montazerolghaem

HRR TEA CO₂ Laser with 220W Average Output Power

Iranian Journal of Physics Research, 2008, Vol. 8, p73-6, M. Zand, S.A. Naeimi and M. Montazerolghaem

High Repetition Rate, Transverse Atmospheric Pressure CO₂ Laser with 220 Watts Average Output Power

Journal of Nuclear Science and Technology (AEOI), 2008, Vol. 42, p46-50, A. Hariri, S. Ghoreysshii and K. Rahimian

Study of Geometrical-Dependence of Glow Discharge on Gain Coefficient in a TE-N₂ Laser

Optics Communications, 2008, Vol. 281, p121-8, M.H. Mahdieh and M. Shirmahi
Numerical Investigation of Beam Quality in Unstable Optical Resonators and the Effects of Practical Imperfections

Optics Communications, 2008, Vol. 281, p3395-3402, M.H. Mahdieh
Numerical Approach to Laser Beam Propagation through Turbulent Atmosphere and Evaluation of Beam Quality Factor

Optics Communications, 2008, Vol. 281, p3799-3801, K. Khorasani, D. Salehinia, S. Behrouzinia, B. Sajad and M. Parvizian
Frequency Dependence of the Output Power of Metal Vapor Lasers

Journal of Russian Laser Research, 2008, Vol. 29, p364-7, D. Salehinia and K. Khorasani
Dependence of Small-Signal Gain and Saturation-Energy Intensity on Laser Active Length, Buffer-Gas Type, and Pressure Variations in Gold-Vapor Lasers

Journal of Russian Laser Research, 2008, Vol. 29, 599-603, K. Khorasani, S. Behrouzinia and D. Salehinia
Air as a Buffer Gas in Metal-Vapor Lasers

Journal of Russian Laser Research, 2008, Vol. 29, p599-603, K. Khorasani, S. Behrouzinia and D. Salehinia
Air as a Buffer Gas in Metal-Vapor Lasers

Optics and Laser Technology, 2008, Vol. 40, p1000-1007, V.R. Adineh, C. Aghanajafi, G.H. Dehghan and S. Jelvani
Optimization of the Operational Parameters in a Fast Axial Flow CW CO₂ Laser using Artificial Neural Networks and Genetic Algorithms

Applied Optics, 2009, Vol. 48, p3460-3467, M. Zoghi, P. Parvin, S. Behrouzinia, D. Salehinia, K. Khorasani and H. Mehravaran
Acoustic Effects of Metal Vapor Lasers

Spectroscopy Related Experiments

Conference Papers:

International Conference on Lasers and Optoelectronics, 1979, H. Tajalli and A. Jafari
Two-Photon Transitions in the Optogalvanic Spectrum of Neon

Proceedings of the Physics Conference, Isfahan, Iran, 1991, H. Tajalli
Direct Calibration of Laser Wavelength Using the Optogalvanic Effect in Hollow Cathode Lamps

Proceedings of the Physics Conference, August 2-6, 1996, Mashhad, Iran, H. Tajalli
Penning Ionization Spectroscopy Using Laser Optogalvanic Effect

National Seminar and Workshop on Lasers and Their Applications in Polymers, April 30-May 1, 1997, F. Soltanmoradi
IR Multi Photo Absorption by Molecules

Proceedings of the XVI International Conference on Coherent and Nonlinear Optics, June 29-July 3, 1998, Moscow, Russia, *H. Tajalli, *M. Mahmoudi and **A.C. Izmailov
*Center for Applied Physics Research, University of Tabriz, Tabriz, Iran
** Institute of Photoelectronics, Baku, Azerbaijan
On the Possibility of Selective Photoexcitation of Molecules in Dense Gas Media

10th Iranian Conference on Photonics, 2003, M.H. Mahdih
Three Step Photoexcitation of Gd by Optogalvanic Technique

Journal Articles:

Spectroscopy Letters, 1979, Vol. 12, p725-32, A. Montaser
Inductively Coupled Plasmas as Excitation Sources for Atomic Fluorescence Spectrometry

Laser Physics, 1997, Vol. 7, p1194-6, *H. Tajalli, *M. Kalafi and **A.C. Izmailov
*Center for Applied Physics Research, University of Tabriz, Tabriz, Iran
** Institute of Photoelectronics, Baku, Azerbaijan
Rise of the Selectivity of the Photoexcitation of Atoms by Means of the Optical
Orientation of Their Ground Level

Laser Physics, 1998, Vol. 8, p508-11, *H. Tajalli, *M. Kalafi, *A. Namdar, and **A.C.
Izmailov
*Center for Applied Physics Research, University of Tabriz, Tabriz, Iran
** Institute of Photoelectronics, Baku, Azerbaijan
Dynamics of Absorption of the Monochromatic Radiation in a Thin Gas Cell

Laser Physics, 1998, Vol. 8, p921-4, *M. Mahmoudi, **H. Tajalli, and ***A.C. Izmailov
* Institute for Advanced Studies in Basic Sciences, Zanjan, Iran
** Center for Applied Physics Research, University of Tabriz, Tabriz, Iran
*** Center for Applied Physics Research, University of Tabriz, Tabriz, Iran
Subrecoil Velocity Selection of Molecules on the Basis of Coherent Population Trapping
under the Stationary Optical Pumping

Laser Physics, 1999, Vol. 9, p476-80, *A. Namdar, *H. Tajalli, *M. Kalafi, and **A.C.
Izmailov
*Center for Applied Physics Research, University of Tabriz, Tabriz, Iran
** Institute of Photoelectronics, Baku, Azerbaijan
Sub-Doppler Absorption Resonances of Three-Level Quantum Systems in Thin Gas Cells

Laser Physics, 1999, Vol. 9, p1223-7, *H. Tajalli, *S. Ahmadi, and **A.C. Izmailov
*Center for Applied Physics Research, University of Tabriz, Tabriz, Iran
** Institute of Photoelectronics, Baku, Azerbaijan
About Nonlinear Magneto-optical Phenomena in Thin Gas Cells

Optics and Spectroscopy, 1999, Vol. 86, p749-54, *M. Mahmoudi, *H. Tajalli, and
**A.C. Izmailov
*Center for Applied Physics Research, University of Tabriz, Tabriz, Iran
** Institute of Photoelectronics, Baku, Azerbaijan
On the Possibility of Selective Photoprocesses in Molecules on the Basis of Coherent
Population Trapping

Optics Communications, 2000, Vol. 176, p137-48, *Azad Ch. Izmailov, **M.
Mahmoudi, and ***H. Tajalli
*Institute of Photoelectronics, Baku, Azerbaijan
**Institute for Advanced Studies in Basic Sciences, Zanjan, Iran
***Center for Applied Physics Research, University of Tabriz, Tabriz, Iran
On the Selective Photoexcitation of Molecules within the Homogenous Width of Optical
Lines

Journal of Optics B, 2000, Vol. 2, p315-22, *M. Mahmoudi, **H. Tajalli, ***M.S. Zubairy

*Department of Electronics, Quaidi-i-Azam University, Islamabad, Pakistan

** Institute for Advanced Studies in Basic Sciences, Zanjan, Iran

***Department of Physics, Tabriz University, Tabriz, Iran

Measurement of the Wigner Function of a Cavity Field via Autler-Townes Spectroscopy

Laser Physics, 2000, Vol. 10, p403-5, *M. Kalafi, *H. Tajalli, *A. Namdar, and **A.C. Izmailov

*Center for Applied Physics Research, University of Tabriz, Tabriz, Iran

** Institute of Photoelectronics, Baku, Azerbaijan

Spectroscopy of the Probe Wave for the Cascade System of Levels in a Thin Gas Cell

Laser Physics, 2000, Vol. 10, p1028-32, *H. Tajalli, **M. Mahmoudi, and ***A.C. Izmailov

*Center for Applied Physics Research, University of Tabriz, Tabriz, Iran

**Institute for Advanced Studies in Basic Science, Zanjan, Iran

*** Institute of Photoelectronics, Baku, Azerbaijan

On the Possible Control of the Velocity Selection of Molecules

Laser Physics, 2001, Vol. 11, p1256-61, H. Tajalli

On the Resolution of the Sub-Doppler Laser Spectroscopy in Thin Gas Cells

Laser Physics, 2002, Vol. 12, p558-62, *A. Namdar, *H. Tajalli, and **A.C. Izmailov

*Center for Applied Physics Research, University of Tabriz, Tabriz, Iran

** Institute of Photoelectronics, Baku, Azerbaijan

Manifestations of the Sub-Doppler Structure of the Atomic Spectra in Characteristics of the Running Monochromatic Wave at the Optical Nonuniformity of a Gas

Laser Physics, 2002, Vol. 11, p1256-61, *H. Tajalli, *S. Ahmadi, and **A.C. Izmailov

*Center for Applied Physics Research, University of Tabriz, Tabriz, Iran

** Institute of Photoelectronics, Baku, Azerbaijan

On the Resolution of the Sub-Doppler Laser Spectroscopy in Thin Gas Cells

Journal of Optics B, 2002, Vol. 4, p208-14, *H. Tajalli, *S. Ahmadi, and **A.C. Izmailov

*Center for Applied Physics and Astronomical Research, Tabriz University, Tabriz, Iran

** Institute of Photoelectronics, Baku, Azerbaijan

New Sub-Doppler Absorption Resonances in a Thin Gas Cell Produced by Means of a Running Monochromatic Wave

Laser Physics, 2003, Vol. 13, p137-5, *H. Tajalli, **M. Mahmoudi, and ***A.C. Izmailov

*Center for Applied Physics and Astronomical Research, Tabriz University, Tabriz, Iran

**Department of Physics, Zanjan University, Zanjan, Iran

*** Institute of Photoelectronics, Baku, Azerbaijan

Coherent Population Trapping in the Open Three-Level Cascade System

Iranian Journal of Physics Research, 2005, Vol. 4, p245-54, M.H. Mahdieh, H. Ghasem and N. Mohammadzadeh

Photo-Excitation of Cd Atom by Optogalvaanic Technique Monitoring

Physics Letters A, 2006, Vol. 357, p66-71, *M. Mahmoudi, **M. Sahrai, and ***H. Tajalli

*Department of Physics, Zanjan University, Zanjan, Iran

**Institute for Advanced Studies in Basic Sciences, Zanjan, Iran

***Research Institute for Applied Physics and Astronomy, Tabriz University, Tabriz, Iran

Subluminal and Superluminal Light Propagation via Interference of Incoherent Pump Fields

Journal of Sciences, Islamic Republic of Iran, 2006, Vol. 17, p273-9, M. Sahrai and H. Tajalli

Localizing of a Four-Level Atom via Absorption Spectrum

Journal of Sciences, Islamic Republic of Iran, 2006, Vol. 17, p351-8, S. Roshan Entezar and H. Tajalli

Spontaneous Emission Spectrum from a Driven Three-level Atom in a Double-Band Photonic Crystal

Laser Physics, 2007, Vol. 17, p40-44, M. Sahri, M. Mahmoudi, and R. Kheradmand
Atom Localization of a Two-Level Pump-Probe System via the Absorption Spectrum

Laser Focus, 2007, Vol. 17, p98-102, M. Sahrai
Atom Localization via Absorption Spectrum

Journal of Physics B, 2007, Vol. 40, p2927-2937, S. Roshan Entezar
Effect of a Modified Reservoir on the Nature of Interference in the Spontaneous Emission of a Driven Four-Level Atom

Laser Isotope Separation Related Research

Review:

The 13th International Summer Symposium on Science and World Affairs, Berlin, Germany, July 20-30, 2001, P. Parvin, B. Sajad, K. Silakhori, M. Hooshvar, and Z. Zamanipour

MLIS versus AVLIS

Progress in Nuclear Energy, 2004, Vol. 44, p331-45, P. Parvin, B. Sajad, K. Silakhori, M. Hooshvar and Z. Zamanipour
Molecular Laser Isotope Separation versus Atomic Vapor Laser Isotope Separation

Atomic Vapor Laser Isotope Separation

Conference Papers:

Proceedings of the 12th International Conference on Microelectronics, Tehran, Iran, October 31 – November 2, 2000, M. Ahadi, K. Jamshidi and B. Rashidian
Design and Implementation of an Adaptive Controller for an Electronbeam Evaporation System

Journal Articles:

Plasma Sources, Science and Technology, 2003, Vol. 12, p513-22, M.H. Mahdih
Two-Dimensional Evaluation of an Ion Plasma Produced by Pulsed Lasers Extracted by Non-Parallel Collectors

Iranian Journal of Science and Technology, 2004, Vol. 29, p247-57, M.H. Mahdih and F. Marsusi
Evaluation of Three-Step Selective Photo-Ionization of Gd¹⁵⁷, and Gd¹⁵⁵ Isotopes

International Journal of Engineering Science, 2005, Vol. 16, p99-109, M.H. Mahdih and A. Gavili
Two-Dimensional Hydrodynamics of Uniform Ion Plasma in Electrostatic Field

Optics and Spectroscopy, 2005, Vol. 98, p875-8, S. Jelvani, B. Khodadoost, and S. Behrouzina
Measurement of Isotope Shifts of Gadolinium Levels by Laser-Induced Fluorescence Spectroscopy

Iranian Journal of Physics Research, 2005, Vol. 4, p245-54, M.H. Mahdih, H. Ghasem and N. Mohammadzadeh
Photo-Excitation of Gd Atom by Optogalvanic Technique Monitoring

Journal of Physics D, 2006, Vol. 39, p135-47, M.H. Mahdih and A. Gavili
Hydrodynamics of a Non-Uniform Super-Gaussian Ion Plasma Produced by Pulsed Lasers in an Electrostatic Field

Optics and Spectroscopy, 2006, Vol. 100, p188-91, S. Jelvani, B. Khodadoost, and S. Behrouzina
Measurement of the Velocity Distribution of Neutral Atoms Using Laser-Induced Fluorescence

Molecular Laser Isotope Separation

Thesis:

K. Silakhori, Thesis (M.S.), July 2000, Amirkabir Technical University, Department of Physics and Nuclear Science, Tehran, Iran
Laser Isotope Separation Methods Based on MPA by Short Pulse Lasers

M. Hooshvar, Thesis (M.S.), 2001, Amirkabir Technical University, Department of Physics and Nuclear Science, Tehran, Iran
Molecular Laser Isotope Separation of SF₆ Molecules by TEA CO₂ Lasers

S. Gharemani, Thesis (M.S.), 2002, Amirkabir Technical University, Department of Physics and Nuclear Science, Tehran, Iran
The Theoretical Study of Multiphoton Absorption for Laser Isotope Separation

B. Sajad, Thesis (PhD), Inprocess, Amirkabir Technical University, Department of Physics and Nuclear Science, Tehran, Iran
The Isotope Separation of Sulfur in SF₆ with Molecular Photodissociation Based on Multiphoton Absorption of Pulsed CO₂ Laser in Multiline Process

Conference Papers:

9th Congress of Chemical and and Chemical Engineering, 1993, H. Golnabi
Laser Isotope Separation by Photochemical Reactions

National Seminar and Workshop on Lasers and Their Applications in Polymers, Tehran, April 30 – May 1, 1997, F. Soltanmoradi
IR Multi Photo Absorption by Molecules

The First Conference on the Application of Physics and Nuclear Science on Medicine and Industry, Tehran, Iran, 1999, P. Parvin, K. Silikhori, and Z. Zamanipour
The ³⁴S Isotope Separation with Multiphoton Disociation of SF₆ Moleculaes by TEA CO₂ Laser

Conference on the Applications of Physics and Nuclear Medicines in Medicine and Industry, Tehran, February 7, 2000, P. Parvin, K. Silakhori, Z. Zamani, and B. Ghanbarzadeh
³⁴S Isotope Separation by Photodissociation Process Due to Multi Photon Absorption by SF₆ Molecules by the Exposure of High Power-Short Pulse CO₂ Laser

The 7th Optics Congression of Iran, Tehran, Iran, 2000, P. Parvin, K. Silikhori, and Z. Zamanipour
The Measurement of Molecular Laser Isotope Separation of ³⁴SF₆ in SF₆ Molecules by IR Spectroscopy

The 7th Congress on Nuclear Physics in Iran, Mashad, Iran, 2000, P. Parvin, K. Silikhor, B. Sajad and Z. Zamanipour
The Isotope Separation of Light Molecules by MOLIS

Annual Physics Conference of Iran, Zanjan, Iran, 2002, B. Sajad and P. Parvin
The Rate Equation and Multiphoton Absorption Process

The Ninth Photonic Conference of Iran, Tehran, Iran, 2002, P. Parvin, B. Sajad, and Z. Zamanipour
The Selectivity Increase of SF₆ Dissociation with Untuned TEA-CO₂ Laser Comparing Tuned Beam at 10.6μm

2003 European Quantum Electronics Conference, Munich, Germany, 2003, P. Parvin
Selective Obliteration of SF₆ Molecules Based on Multiphoton Absorption

Journal Articles:

Journal of the Physical Society of Japan, 1998, Vol. 67, 4296-9, E.K. Goharshadi
Direct Determination of the Interaction Potentials of Sulfur Hexafluoride-Noble Gases from the Extended Principle of Corresponding States

Journal of Sciences, IRI, 1999, Vol. 10, p202-7, H. Golnabi
A Model Study of Laser Isotope Separation by Photoionization or Photodissociation Process

Optics Communications, 2000, Vol. 176, p137-48, A.C. Izmailov, M. Mahmoudi and H. Tajalli
On the Selective Photoexcitation of Molecules within the Homogenous Width of Optical Lines

Journal of Science, Azad Islamic University of Iran, 2003, Vol. 47, A. Aghamir, P. Parvin, H. Ghahremani, and B. Sajad
Rate Equation Model of Multiphoton Dissociation of SF₆ Isotopes by CO₂ Laser

Iranian Journal of Nuclear Science and Technology, 2004, Vol. 41, p771-6, B. Sajad, P. Parvin, K. Silikhor, Z. Zamanipour and M. Hooshvar
Dissociation Rate Measurements for Selectivity Evaluation in SF₆: Selective Dissociation by Multiline vs. Single Line CO₂ Laser

Journal of Physics D: Applied Physics, 2004, Vol. 37, p3402-8, B. Sajad, P. Parvin and M.A. Bassam
SF₆ Decomposition and Layer Formation Due to Excimer Laser Photoablation of SiO₂ Surface at Gas-Solid System