Iranian Dual-Use Science and Technology Bibliography

Volume I: Nuclear Science Related Research

Compiled By
Mark Gorwitz
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Introduction

This is the first volume of a planned multivolume bibliography on Iranian research in the dual-use engineering and scientific related areas. Each volume in the series contains references from books, conference proceedings, documents, journal articles, patents and thesis obtained from open sources. Sources used include Iranian databases, INIS, ScienceDirect, and various nuclear and engineering databases.
Nuclear Physics Research

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** Institute for Studies in Theoretical Physics and Mathematics
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Iranian Dual-Use Nuclear Technology

*Plasma Physics Research Institute, Islamic Azad University, Iran
**Institute of Applied Physics, Russian Academy of Sciences, Nizhny Novgorod, Russia
***Energy and Environmental Science, Utsunomiya University, Japan
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*Plasma Physics Research Center, Islamic Azad University, Tehran, Iran
**Department of Theoretical Physics, University of New South Wales, Sydney, Australia
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*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
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*Plasma Research Center, Science and Engineering Research Campus of Islamic Azad University, Tehran
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*Department of Theoretical Physics, University of New South Wales, Sydney, Australia
**School of Computation and Mathematics, University of Western Sydney, Penrith, Australia
***Institute of Physics, Chinese Academy of Science, Beijing, China
****Plasma Physics Research Center, Research and Science Branch, Islamic Azad University, Tehran
*****Department of Nuclear, Plasma and Radiological Engineering, University of Illinois, Urbana, Illinois
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*IAU, Tabriz University, Tabriz, Iran
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*IAUKB, Khoy, Iran
** Plasma Physics Research Center, Research and Science Branch, 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
***** Institute of Applied Physics and Computational Mathematics, Beijing, China

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*Laser Division, Nuclear Research Center, Atomic Energy Organization of Iran
**Institute of Laser Engineering, Osaka University, Osaka, Japan
***P.N. Lebedev Physical Institute, Academy of Sciences, Moscow

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**Presently at Physics Department and Laser-Plasma Research Institute, Shahid Beheshti University, Tehran, Iran
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*Work performed at Department of Physics, University of Essex, Essex, UK, currently at Department of Physics, Iran University of Science and Technology, Tehran, Iran
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*General Physics Institute, Moscow
** Presently at Physics Department and Laser-Plasma Research Institute, Shahid Beheshti University, Tehran, Iran
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*Work performed at Department of Physics, University of Essex, Essex, UK, currently at Department of Physics, Iran University of Science and Technology, Tehran, Iran
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*Plasma Physics Division, Atomic Energy Organization of Iran (AEOI)
** Plasmofo Ltd., Moscow, Russia
DENA, a New PF Device

*Institute of Physics, Chinese Academy of Sciences, Beijing, China
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*Department of Advanced Engineering Science, Kyushu University, Kasuga, Japan
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*Physics Department and Laser Research Institute, Shahid Beheshti University
**Institute for Studies in Theoretical Physics and Mathematics, Tehran
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Cluster Structure Effects on the Interaction of an Ultrashort Intense Laser Field with Large Clusters

*Physics Department and Laser Research Institute, Shahid Beheshti University
**Institute for Studies in Theoretical Physics and Mathematics, Tehran
***Moscow Physics and Technology, Dolgoprudny, Russia
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*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


Generation of Short Pulse Radiation from Magnetized Wake in Gas-Jet Plasma and Laser Interaction


Green Function of Axisymmetric Magnetostatics

*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

*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

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*Department of Theoretical Physics, University of New South Wales, Sydney, Australia
**Islamic Azad University, Tehran, Iran
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Parametric Instability of Plasmas Produced by Linearly Polarized Microwave Pulsed Fields

*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
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*Department of Theoretical Physics, Unviersity of New South Wales, Sydney, Australia
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*School of Metallurgy and Materials Engineering, University of Tehran, Tehran, Iran
**Institute for Materials Research, Tohoku University, Sendai, Japan

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*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

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***Institute for Materials Research, Tohoku University
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**Institute for Material Research, Tohoku University, Sendi, Japan
Evaluation of Microstructure Change and Hot Workability of High Nickel High Strength Steel using Wedge Test
*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
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**School of Metallurgy and Materials Engineering, University of Tehran, Tehran, Iran
***Institute for Materials Research, Tohoku University, Sendai, Japan
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*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
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Anisotropy in Microalloyed S335N Steel

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Effect of Cooling Rate on the Microstructure and Mechanical Properties of Microalloyed Forging Steel

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Optimization of Mechanical Properties of a Microalloyed Steel

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Ni-Based Alloys

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Iranian Dual-Use Nuclear Technology

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*Department of Materials Engineering, Tarbiat Modarres University, Tehran
**Department of Metallurgy and Materials Engineering, Sharif University of Technology, Tehran
***Aerospace Technology Manufacturing Technology Center, Institute for Space Research, National Research Council Canada, Montreal, Canada
****Department of Metals and Materials Engineering, McGill University, Montreal, Canada
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*Department of Metallurgical and Materials Engineering, Ferdowsi University of Mashad
**McGill Metals Processing Centre, McGill University, Montreal, Canada
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*Materials Science and Engineering Department, Sharif University
**Material Science Department, Imperial College, London, UK
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*Department of Physical Metallurgy and Materials Testing, University of Leoben, Austria
**Department of Materials Science and Engineering, K.N. Toosi University of Technology, Tehran
Influence of Chemical Composition and Manufacturing Conditions on Properties of NiTi Shape Memory Alloys

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**Department of Materials Science and Metallurgy, University of Cambridge, UK
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*Tarbiat Modarres University, Iran
**Department of Metal Physics, Beijing University
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*Department of Materials, Isfahan University of Technology
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**Institute for Materials Research, Tohoku University, Sendai, Japan
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The Comparison of W/Cu and W/ZrC Composites Fabricated through Hot-Press

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*MSc from the University of Tehran in 2006, now at the Department of Materials Engineering, University Technology Malaysia and Institute for Materials Research, the School of Process, Environmental and Materials Engineering, University of Leeds, UK
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*Department of Materials Engineering, University Technology Malaysia, Malaysia
**Department of Metallurgy and Materials Engineering, University of Tehran
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*Iran University of Science and Technology, Narmak
**Department of Mechanical and Aerospace Engineering, Carleton University, Ottawa, Canada
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*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

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Iranian Dual-Use Nuclear Technology


*Department of Physics, Ferdowsi University of Mashhad, Mashhad, Iran
**Carnegie-Mellon Institute, Carnegie-Mellon University, Pittsburgh, PA.
***Sumitomo Special Metals Co. Ltd., Osaka, Japan

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*Department of Metallurgy and Materials Science, Iran University of Science and Technology, Narmark, Tehran, Iran
**National Institute for Materials Science, Tsukuba, Japan
***Institute for Physics and Applied Mathematics, Ural State University, Ekaterinburg, Russia

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*Department of Metallurgy and Materials Science, Iran University of Science and Technology, Narmark, Tehran, Iran
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***Institute of Metal Physics, Ural Division, Russian Academy of Sciences, Ekaterinburg, Russia
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Production of $^{18}$F Fluoride with a High-Current Two Layer Spherical Gold Target

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Production and Quality Control of $^{66}$Ga as PET Radioisotope

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