



APPLIED RADIATION AND ISOTOPES

A journal of nuclear and radiation techniques and their applications in the physical, chemical, biological, medical, earth, planetary, environmental, security and engineering science.

AUTHOR INFORMATION PACK

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DESCRIPTION

Applied Radiation and Isotopes provides a high quality medium for the publication of substantial, original and scientific and technological papers on the development and peaceful application of nuclear, radiation and radionuclide techniques in chemistry, physics, biochemistry, biology, medicine, security, engineering and in the earth, planetary and environmental sciences, all including dosimetry. Nuclear techniques are defined in the broadest sense and both experimental and theoretical papers are welcome. They include the development and use of α - and β -particles, X-rays and γ -rays, neutrons and other nuclear particles and radiations from all sources, including radionuclides, synchrotron sources, cyclotrons and reactors and from the natural environment.

The journal aims to publish papers with significance to an international audience, containing substantial novelty and scientific impact. The Editors reserve the rights to reject, with or without external review, papers that do not meet these criteria.

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Monte Carlo methods; solid-state dosimetry; microdosimetry; photon scattering

Brian E. Zimmerman, National Institute of Standards and Technology (NIST), 100 Bureau Drive, M/S 8462, Bldg. 245, Room C114, Gaithersburg, MD 20899-8260, USA

Radiation measurement and medical applications of ionizing radiation

Consulting Editors:**David Bradley**

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Bert Coursey**Editors:****Virgilio Correcher**, CIEMAT, Madrid, Spain

Thermoluminescence and cathodoluminescence properties of natural; ceramic and synthetic materials

Rudolf Engelbrecht, Seibersdorf Labor GmbH, Seibersdorf, Austria

Internal dosimetry; whole body counting; excretion analysis; radiochemistry; environmental radioactivity

Jorge Fernandez, Alma Mater Studiorum-University of Bologna, Bologna, Italy

Modelling associated with X-ray fluorescence and spectroscopy

Susanna Guatelli, University of Wollongong, Wollongong, New South Wales, Australia

Monte Carlo codes; Geant4; radiation physics; medical physics; dosimetry; microdosimetry; nanodosimetry

Nikolaus Hermanspahn, Comprehensive Nuclear Test Ban Treaty Organisation (CTBTO), Vienna, Austria

Environmental radioactivity

Esam Hussein, University of Regina, Regina, Saskatchewan, Canada

Detection of threat-materials; industrial and medical imaging; gauging; probing and monitoring

Hanna Koivunoro, Helsinki University Central Hospital, Helsinki, Finland

BNCT; dosimetry; Monte Carlo; MCNP; treatment planning; dose calculation

Fiona McNeill, McMaster University, Hamilton, Ontario, Canada

radiation instrumentation, Monte Carlo modeling, bulk sample analysis, medical applications, x-ray fluorescence, neutrons

Firas Mourtada, Helen F. Graham Cancer Center, Newark, Delaware, USA

Medical applications of radiation; medical physics

Gerald Reischl, Universitätsklinikum Tübingen, Tübingen, Germany

Radiopharmaceuticals; PET; radiochemistry; radionuclide production

J. David Robertson, University of Missouri Research Reactor (MURR), Columbia, Missouri, USA

radioisotope production (accelerator and reactor), nuclear batteries, nuclear forensics, activation analysis, radioactive nanoparticles

Roger Schibli, Eidgenössische Technische Hochschule (ETH) Zürich, Zürich, Switzerland

Radiopharmaceuticals; PET; SPECT; radiochemistry; radionuclide production; radionuclide therapy

Jeffrey Schweitzer, University of Connecticut, Storrs, Connecticut, USA

Nuclear logging; geological elemental analysis; nuclear techniques in the oil industry; nuclear data for borehole logging and mineral analysis

Ion Stamatelatos, National Centre for Scientific Research "Demokritos", Athens, Greece

Development of nuclear analytical methods for applications in technology and biomedicine; neutronics, medical physics and radiation protection

Ferenc Szelecsényi, Hungarian Academy of Sciences, Debrecen, Hungary

Production of radioactive isotopes with charged particle accelerators including PET; SPECT and therapeutically relevant isotopes; production related nuclear data measurement and evaluation; radiochemistry including automation of medical radioisotope production

Meera Venkatesh, International Atomic Energy Agency (IAEA), Vienna, Austria

Radiochemistry; radionuclide production; radiopharmaceuticals; radiometric assays

Phillip Warwick, University of Southampton, Southampton, UK

Environmental radiochemistry, Analytical radiochemistry, Automation, Nuclear decommissioning, Nuclear waste characterisation, Nuclear forensics, Remediation technologies

GUIDE FOR AUTHORS

INTRODUCTION

Applied Radiation and Physics: A journal of nuclear and radiation techniques and their applications in the physical, chemical, biological, medical, earth, planetary, environmental, security and engineering science. The journal aims to publish papers with significance to an international audience, containing substantial novelty and scientific impact. The Editors reserve the rights to reject, with or without external review, papers that do not meet these criteria.

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Dadachova, E., Smith, S.V., Mirzadeh, S., 1996. Electrolytic reduction of carrier-free rhenium-188. *Appl. Radiat. Isot.* 47 (3), 289-292.

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