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.

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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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Manuscripts describing the results of measurements of radioactive or other substances in any medium that have been obtained using well-established analytical methods will not be accepted unless they also describe substantial innovations or improvements in the analytical methodology. Relevant topics for Applied Radiation and Isotopes include the following, however, authors are encouraged to suggest other topics which might also be published in the journal:

- Radiation Sources: design, construction, production, characteristics.
- Radionuclides: production, activation cross-sections, target design, processing, quality control procedures.
- Synthesis of Labelled Compounds: synthesis, purification, quality control, in vitro testing of radionuclide-labelled compounds/ radiopharmaceuticals.
- Measurement of Radiation and Radioactivity: measurement of X-rays, γ-rays, α- and β-particles and other forms of radiation; nuclear instrumentation, including radiation spectrometry, dosimetry, novel counting systems and whole-body counters, novel radiation detector systems.
- Nuclear Geophysics: studies of
the earth’s crust, the hydrosphere, the atmosphere and planetary bodies; nuclear methods for exploration, extraction, transport and use of water, oil, gas, coal and other minerals. Radiochemistry: chemical behaviour and speciation of radionuclides. Environment: chemical behaviour and speciation of radionuclides and labelled compounds other than those of direct clinical interest, in geological, environmental, human, animal or plant systems; factors which modify this behaviour.

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AUDIENCE

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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.

Types of Article
Manuscripts, which will be subject to peer review, should take one of the following forms:

Original Papers, which should be definitive and describe a reasonably complete investigation;
Short Communications, which should describe ideas, data or investigations that are not completed, or for any other reason does not justify publication as a full-length paper. Short communications should normally not exceed two published pages. The journal will see to it that this type of article will be refereed and published faster than original papers;
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