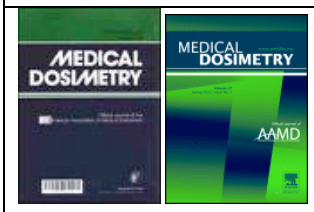
Impact factors and ranks of selected journals in the Medical Physics field of study. ***2008-2012***

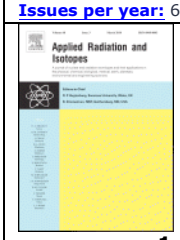
 Impact Factor: **4.592, 4.592, 4.503, 4.031, 4.524** **Issues per year:** 15	***International Journal of Radiation Oncology Biology Physics (IJROBP),*** Known in the field as the Red Journal, offers authoritative articles linking new research and technologies to clinical applications. Original contributions by leading scientists and researchers include but are not limited to experimental studies of combined modality treatment, tumor sensitization and normal tissue protection, molecular radiation biology, particle irradiation, brachytherapy, treatment planning, tumor biology, and clinical investigations of cancer treatment that include radiation therapy. Technical advances related to dosimetry and conformal radiation treatment planning are also included.
 Impact Factor: **4.343, 4.343, 4.337, 5.580, 4.520** **Issues per year:** 12	***Radiotherapy and Oncology*** Publishes papers describing original research as well as review articles. It covers areas of interest relating to radiation oncology. This includes: clinical radiotherapy, combined modality treatment, experimental work in radiobiology, chemobiology, hyperthermia and tumour biology, as well as physical aspects relevant to oncology, particularly in the field of imaging, dosimetry and radiation therapy planning. Papers on more general aspects of interest to the radiation oncologist including chemotherapy, surgery and immunology are also published. Papers are accepted on a worldwide basis.
 Impact Factor: **2.704, 2.704, 3.07, 2.891, 3.042**	***Medical Physics ('The International Journal of Medical Physics')*** Is our flagship publication with authors and subscribers throughout the world. It is available in print and online through individual and library subscriptions. Subscription provides online access and sophisticated search capability through the entire journal archive at no additional charge. RSS feeds from Medical Physics provide notification of new articles published in selected topical areas regardless of subscription. **USA**
 Impact Factor: **2.784, 2.781, 3.056, 2.829, 2.701**	***Physics in medicine and biology*** Topics covered are: all areas of radiotherapy physics; radiation dosimetry (ionizing and non-ionizing radiation); biomedical imaging (e.g. x-ray, MR, ultrasound, optical, nuclear medicine); image reconstruction and kinetic modelling; image analysis and computer-aided detection; other radiation medicine applications; therapies (including non-ionizing radiation); biomedical optics; radiation protection; radiobiology; body composition
 **Impact Factor:** **2.618, 1.268, 0.941, 1.000, 1.009** **Issues per year:** 4	***Medical Dosimetry,*** The official journal of the American Association of Medical Dosimetrists, is the key source of information on new developments for the medical dosimetrist. Practical and comprehensive in coverage, the journal features original contributions and review articles by medical dosimetrists, oncologists, physicists, and radiation therapy technologists on clinical applications and techniques of external beam, interstitial, intracavitary and intraluminal irradiation in cancer management. Articles dealing primarily with physics will be reviewed by a specially appointed team of experts in the field. **USA**
RADIATION ONCOLOGY **Impact Factor:** **1.863, 2.53, 2.41, 2.32, 2.11**	***Radiation Oncology,*** Is an open access, peer-reviewed online journal that encompasses all aspects of research that impacts on the treatment of cancer using radiation. It publishes findings in molecular and cellular radiation biology, radiation physics, radiation technology, and clinical oncology.
 Impact factor: **1.77, 2.3, 2.062, 1.314, 1.217**	***The British Journal of Radiology,*** It is a multidisciplinary journal covering all clinical and technical aspects of diagnostic imaging, radiotherapy and oncology, medical physics and radiobiology. The multidisciplinary approach of the journal enables readers to keep up-to-date with developments in their own as well as related fields. Articles included in *BJR* cover a wide range of subjects, including diagnostic radiology, radiotherapy, oncology, nuclear medicine, ultrasound, radiation physics, radiation protection and radiobiology.

by P. Rowshanfarzad

Impact Factor: **1.382, 1.717 1.791, 1.878, 1.790**
Issues per year: 6

Medical & Biological Engineering & Computing

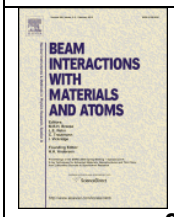
Medical & Biological Engineering & Computing, MBEC, is the official journal of the International Federation of Medical and Biological Engineering, IFMBE.
MBEC covers the entire spectrum of biomedical and clinical engineering. The journal aims to present exciting and vital experimental and theoretical developments in biomedical science and technology and to report on advances in computer-based methodologies in these multidisciplinary subjects. The journal also strives to incorporate new and emerging fields including cellular engineering, molecular imaging, and evolving technologies.
MBEC publishes Original Research Articles as well as Reviews and Technical Notes. The Rapid Communications category focuses on material that will be of immediate value to the readership, while the Controversies section provides a forum to exchange views on selected issues thereby stimulating a vigorous and informed debate in this exciting and high profile field. The functionality of theoretical and mathematical models should wherever possible be assessed using biological or clinical data. The Editor in Chief, Deputy Editor and Associate Editors have backgrounds in Biomedical Engineering, Physics, Biology and Medicine. In combination with Springer's outstanding editorial expertise, MBEC ensures an expert and rapid route to publication of your submissions.



Impact Factor: **1.114, 1.094, 0.999, 1.172, 1.179**
Issues per year: 12

Applied Radiation and Isotopes

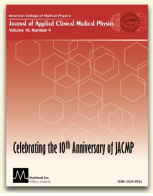
Provides a high quality medium for the publication of substantial, original and scientific and technological papers on the development and applications of nuclear, radiation and radionuclide techniques in chemistry, physics, biochemistry, biology, medicine, engineering and in the earth, planetary and environmental sciences. 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. Nuclear magnetic resonance and electron spin resonance are important technologies within the scope of *Applied Radiation and Isotopes*.
Papers dealing with radiation processing, or the biological , chemical or physical effects of radiation are not appropriate for publication in *Applied Radiation and Isotopes*. Manuscripts dealing with radiation processing, or the chemical or physical effects of radiation should be directed to our sister journal *Radiaton Physics and Chemistry*.
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. **United Kingdom**



Impact Factor: **0.999, 1.078, 1.042, 1.211, 1.266**
Issues per year: 24

Nuclear Instruments and Methods in Physics Research Section B:

Beam ISection B of Nuclear Instruments and Methods in Physics Research covers all aspects of the interaction of energetic beams with atoms, molecules and aggregate forms of matter. This includes ion beam analysis and ion beam modification of materials as well as basic data of importance for these studies. Topics of general interest include: atomic collisions in solids, particle channelling, all aspects of collision cascades, the modification of materials by energetic beams, ion implantation, irradiation - induced changes in materials, the physics and chemistry of beam interactions and the analysis of materials by all forms of energetic radiation. Modification by ion, laser and electron beams for the study of electronic materials, metals, ceramics, insulators, polymers and other important and new materials systems are included. Related studies, such as the application of ion beam analysis to biological, archaeological and geological samples as well as applications to solve problems in planetary science are also welcome. Energetic beams of interest include atomic and molecular ions, neutrons, positrons and muons, plasmas directed at surfaces, electron and photon beams, including laser treated surfaces and studies of solids by photon radiation from rotating anodes, synchrotrons, etc. In addition, the interaction between various forms of radiation and radiation-induced deposition processes are relevant. nteractions with Materials and Atoms



Impact Factor: **1.225, 1.168, 1.008, 1.291, 0.959**
Issues per year: 6

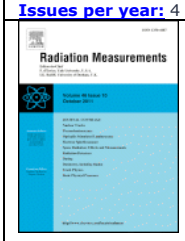
The Journal of Applied Clinical Medical Physics

Is an applied journal, publishing papers that will help clinical medical physicists perform their responsibilities more effectively and efficiently, and for the increased benefit of the patient. Manuscripts in clinical practice, administration, regulations, health physics, machine maintenance, etc. will be considered. This journal is published by the American College of Medical Physics. **USA**

Impact Factor: **0.698, 1.500 , 1.397, 1.119, 1.167**
Issues per year: 4

Physica Medica

Is the official journal of Associazione **Italiana** di Fisica Medica and the European Federation of Organisations for Medical Physics. Physica Medica, European Journal of Medical Physics, publishing with Elsevier from 2007, provides an international forum for research and reviews on the following main topics:
Medical Imaging
Radiation Therapy
Radiation Protection
Measuring Systems and Signal Processing
Education and training in Medical Physics
Contributions on other topics related to Applications of Physics to Biology and Medicine and in particular related to new emerging fields such as Molecular Imaging, Hadrontherapy, System biology, Nanoparticles and Nanotechnologies, etc. are strongly encouraged.



Impact Factor: **1.236, 0.973, 1.019, 1.177, 0.861**
Issues per year: 12

Radiation Measurements

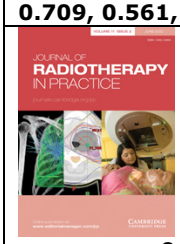
provides a forum for the presentation of the latest developments in the broad field of ionizing radiation detection and measurement and publishes original papers on both fundamental and applied research.
Traditionally the journal has covered methods that comprise solid state nuclear track detectors; spontaneous and stimulated luminescence (including scintillating materials, thermoluminescence, and optically stimulated luminescence); electron spin resonance of natural and synthetic materials; nuclear magnetic resonance (including ferrous sulfate and polymer gels), and superheated emulsions (including superheated drop and bubble detectors). Physics, design and performance of radiation measurements, including computational modelling such as Monte Carlo simulations, are of relevance to the journal, as well as studies of energy-transfer phenomena, track physics and microdosimetry.
Measurements and calculations of fundamental physical data, such as cross sections, reaction yields and attenuation coefficients, are acceptable within studies of radiation detection and dosimetry.
Applications of interest to the journal are: personal dosimetry (including dosimetric quantities, active/electronic and passive monitoring techniques for photon, neutron and charged-particle exposures); environmental dosimetry (including radon measurements where they introduce methodological advances, predictive models, or detailed and original maps of complete or unusual geographical/geological regions); cosmic and high-energy radiation measurements (including dosimetry, space radiation effects, and single event upsets); dosimetry-based archaeological and geological dating; accident and retrospective dosimetry (including activation detectors). Papers that present novel detection techniques and applications such as illicit radiological and nuclear material detection (including contraband interdiction and safeguards verification) are also sought. Review articles are periodically solicited by the Editors. **United Kingdom**

by P. Rowshanfarzad

Impact Factor: **0.434, 0.63, 0.709, 0.561, 0.885**

Australian Physics & Engineering Science in Medicine

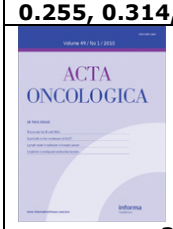
Australasian Physical & Engineering Sciences in Medicine (APESM) is a multidisciplinary forum for information and research on the application of physics and engineering to medicine and biology, that covers a broad range of topics. Recent articles include a tutorial for treatment planning in radiation oncology physics; a spreadsheet for use in Partial Breast Irradiation, employing measurements performed at the time of the planning CT scan; and a paper describing the calibration of hardware modified phones for use in studying the health effects of mobile telephone use. APESM offers original reviews, scientific papers, scientific notes, technical reports, technical notes, educational notes, book reviews and letters to the editor. APESM is the journal of the Australasian College of Physical Scientists and Engineers in Medicine, and also the official journal of the College of Biomedical Engineers, Engineers Australia and the Asia-Oceania Federation of Organizations for Medical Physics.



Impact Factor: **0.255, 0.304, 0.255, 0.314, 0.226**

The Journal of Radiotherapy in Practice

The Journal of Radiotherapy in Practice is a peer-reviewed journal covering all of the current modalities specific to clinical oncology and radiotherapy. The journal aims to publish research from a wide range of styles and encourage debate and the exchange of information and opinion from within the field of radiotherapy practice and clinical oncology. The journal also aims to encourage technical evaluations and case studies as well as equipment reviews that will be of interest to an international radiotherapy audience. **United Kingdom**



Impact Factor: **2.739, 2.265, 3.334, 3.582, 2.867**

Acta Oncologica

Acta Oncologica is the official journal of the five Nordic oncological societies. The members of the editorial committee represent these societies.
Acta Oncologica is a scientific medical journal within clinical oncology and related disciplines. It accepts articles within all fields of clinical cancer research from applied basic research to cancer nursing and psychological aspects of cancer. Articles on tumour pathology, experimental oncology and biology, cancer epidemiology and medical radiophysics are welcomed if they have a clinical aim or interest. Besides submitted specific articles, review articles are published regularly. Special material may also be published as supplements.
It is published by Informa Healthcare.
Manuscripts should be submitted via the online service Manuscript Central
Editor-in-Chief Bengt Glimelius - Uppsala, **Sweden**

Impact Factor: **0.078,0.172, 0.277, 0.338, 0.414**

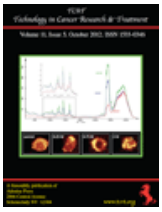
International Journal of Radiation Research (IJRR)

International Journal of Radiation Research (IJRR) publishes original scientific research and clinical investigations related to radiation oncology, radiation biology, and Medical and health physics. The clinical studies submitted for publication include experimental studies of combined modality treatment, especially chemoradiotherapy approaches, and relevant innovations in hyperthermia, brachytherapy, high LET irradiation, nuclear medicine, dosimetry, tumor imaging, radiation treatment planning, radiosensitizers, and radioprotectors. All manuscripts must pass stringent peer-review and only papers that are rated of high scientific quality are accepted.

Impact Factor: **0.262,0.460, 0.492, 0.696, 0.887**

Journal of Medical Physics

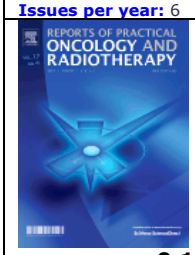
The official journal of Association of Medical Physicists of **India**.
The scope of this journal covers all aspects of the application of radiation physics to biological sciences, radiotherapy, radiodiagnosis, nuclear medicine, dosimetry, radiation standards and radiation protection. Papers / manuscripts on radiobiology, pertaining to cancer therapy also fall within the scope of the journal. Apart from the original research work, papers which are of practical importance to medical physicists e.g., those dealing with novelty in practices (performance and quality assurance tests, clinical investigations and follow-ups), radiation accidents and emergencies are also published in the journal. Reviews of other publications (e.g., ICRP / ICRU reports) also find place in the journal. Manuscripts with no or oblique relevance to the scope may not find a place.



Impact Factor: **2.671, 1.720, 1.982, 1.841, 1.914, 2.02**
Issues per year: 6

Technology in Cancer Research and Treatment

Technology in Cancer Research and Treatment (TCRT) welcomes manuscripts from active investigators involved in technologies devoted to early diagnosis, treatment, and palliation of cancer. TCRT will include both experimental and theoretical investigations. Among the topics that will be covered are MRI, including functional MRI, spiral CT, PET, optical spectroscopy, computer-aided reconstruction of tumours, computer-aided drug design, stereotactic radiosurgery, cryosurgery, brachytherapy, electroporation, photodynamic therapy, gene therapy, cancer vaccine, proteomics, and genomics, as they impact cancer research and treatment. Special emphasis will be given to non-invasive techniques. TCRT publishes original articles, express communications, opinion pieces, and timely reviews. No case report or a single institute experience will be considered for publication. **USA**

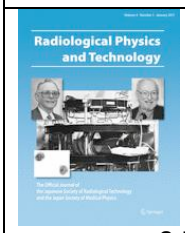


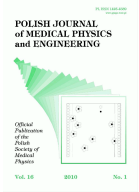
Impact Factor: **0.135, 0.092, 0.210, 0.458, 1.890**
Issues per year: 6

Reports of Practical Oncology and Radiotherapy

Reports of Practical Oncology and Radiotherapy is an interdisciplinary bimonthly journal, publishing original contributions in clinical oncology and radiotherapy, as well as in radiotherapy physics, techniques and radiotherapy equipment.

Reports of Practical Oncology and Radiotherapy is a journal of the Polish Society of Radiation Oncology, the **Czech** Society of Radiation Oncology, the Hungarian Society for Radiation Oncology, the Slovenian Society for Radiotherapy and Oncology, the Polish Study Group of Head and Neck Cancer, the Guild of Bulgarian Radiotherapists and the Greater Poland Cancer Centre, affiliated with the Spanish Society of Radiotherapy and Oncology, the Portuguese Society of Radiotherapy–Oncology, the Romanian Society of Radiotherapy and Medical Oncology, and the Latin American Association for Radiation Oncology

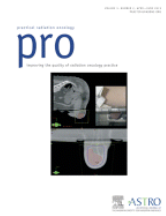
BMC Medical Physics BioMed Central The Open Access Publisher **Impact Factor:** **1.3, 0.4, 1.455, 1.571, 1.000**	***BMC Medical Physics*** BMC Medical Physics is an open access, peer-reviewed journal that considers articles on all aspects of medical physics, including radiobiology, radiation therapy, nuclear medicine, ultrasound, imaging, photomedicine and physiological measurement. It is journal policy to publish work deemed by peer reviewers to be a coherent and sound addition to scientific knowledge and to put less emphasis on interest levels, provided that the research constitutes a useful contribution to the field. **United Kingdom**
 Impact Factor: **0.533, 0.719, 1.145, 1.139, 0.981** **Issues per year:** 6	***Journal of Medical Imaging and Radiation Oncology*** Official Journal of The Royal Australian and New Zealand College of Radiologists **United Kingdom**
 Impact Factor: **0.065, 0.111, 0.102, 0.140** **Issues per year:** 4	***Journal of Medical Imaging and Radiation Sciences*** Official Journal of the **Canadian** Association of Medical Radiation Technology The *Journal of Medical Imaging and Radiation Sciences (JMIRS)* is a cutting edge, peer-reviewed journal that accepts manuscripts in all fields of diagnostic imaging and radiation therapies. We provide timely, evidence-based information that helps medical radiation technologists advance quality and innovation in patient care. Mission: The *Journal of Medical Imaging and Radiation Sciences* is committed to the dissemination of knowledge through the publication of scholarly research, primarily in the fields of radiation therapy, radiological technology, magnetic resonance imaging and nuclear medicine.
 Impact Factor: **3.843, 5.225, 5.583, 4.087** **Issues per year:** 6	***Medical Image Analysis*** An official journal of the MICCAI Society *Medical Image Analysis* provides a forum for the dissemination of new research results in the field of medical and biological image analysis, with special emphasis on efforts related to the applications of computer vision, virtual reality and robotics to biomedical imaging problems. A bi-monthly journal, it publishes the highest quality, original papers that contribute to the basic science of processing, analysing and utilizing medical and biological images for these purposes. The journal is interested in approaches that utilize biomedical image datasets at all spatial scales, ranging from molecular / cellular imaging to tissue / organ imaging. While not limited to these alone, the typical biomedical image datasets of interest include those acquired from: • Magnetic resonance • Ultrasound • Computed tomography • Nuclear medicine • X-ray • Optical and Confocal Microscopy • Video and range data images The types of papers accepted include those that cover the development and implementation of algorithms and strategies based on the use of various models (geometrical, statistical, physical, functional, etc.) to solve the following types of problems, using biomedical image datasets: representation of pictorial data, visualization, feature extraction, segmentation, inter-study and inter-subject registration, longitudinal / temporal studies, image-guided surgery and intervention, texture, shape and motion measurements, spectral analysis, digital anatomical atlases, statistical shape analysis, computational anatomy (modelling normal anatomy and its variations), computational physiology (modelling organs and living systems for image analysis, simulation and training), virtual and augmented reality for therapy planning and guidance, telemedicine with medical images, telepresence in medicine, telesurgery and image-guided medical robots, etc.
 **Impact Factor:** **0.543, 0.750, 0.759, 0.600** **Issues per year:** 2	***Radiological Physics and Technology*** The purpose of the journal Radiological Physics and Technology is to provide a forum for sharing new knowledge related to research and development in radiological science and technology, including medical physics and radiological technology in diagnostic radiology, nuclear medicine, and radiation therapy among many other radiological disciplines, as well as to contribute to progress and improvement in medical practice and patient health care. **Japan**
 Impact Factor: **1.149, 1.132, 1.227, 1.375** **Issues per year:** 12	***Radiation Physics and Chemistry*** The Journal for Radiation Physics, Radiation Chemistry and Radiation Processing A multidisciplinary journal linking science and industry *Radiation Physics and Chemistry* is a multidisciplinary journal that provides a medium for publication of substantial and original papers, reviews, and short communications which focus on research and developments involving ionizing radiation in radiation physics, radiation chemistry and radiation processing. 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. This could include papers that are very similar to previous publications, only with changed target substrates, employed materials, analysed sites and experimental methods, report results without presenting new insights and/or hypothesis testing, or do not focus on the radiation effects. A fuller though not exhaustive list of topics that are considered for publication include: Radiation Physics



Impact Factor: **0.05, 0.033, 0.100**
Issues per year: 4

Polish Journal of Medical Physics and Engineering

Aims and Scope
Why subscribe and read
Excellent articles authored by researchers from all over the world, who appreciate our fast, fair and constructive peer review
Why submit
Fast, fair and constructive peer review
Rejection Rate
15%

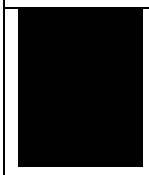


Impact Factor: **-, -, 1.194**
Issues per year: 4

Practical Radiation Oncology

An official journal of the **American** Society for Radiation Oncology (*ASTRO*)
The overarching mission of *PRACTICAL RADIATION ONCOLOGY* is to improve the quality of radiation oncology practice. The Journal's purpose is to document the state of current practice, providing background for those in training and continuing education for practitioners, through discussion and illustration of new techniques, evaluation of current practices, and publication of case reports. PRO will strive to provide its readers content that emphasizes knowledge "with a purpose."
The content of *PRO* includes:

- Articles that focus on imaging, contouring, target delineation, simulation, treatment planning, immobilization, organ motion, and other practical issues
- ASTRO guidelines, position papers, and consensus statements Invited commentaries
- "Quality Corner" section focusing on patient safety, quality measurement, or quality improvement initiatives
- Articles on the maintenance of certification process and practice quality improvement initiatives such as ASTRO's PAAROT program "Point/Counterpoint" section with opposing expert views on current topics and controversies
- Articles devoted to professionalism, biomedical ethics, and practice management
- Clinically oriented reviews of cancer biology
- Interesting case reports with pedagogical merit
- ***PRO* is the sister publication to the International Journal of Radiation Oncology • Biology • Physics.**



Impact Factor: **0.74, 0.74, 0.656, 0.761**
Issues per year: 4

Journal of Cancer Research and Therapeutics

The Journal of Cancer Research and Therapeutics (JCRT), the official publication of Association of Radiation Oncologists of ***India*** (AROI). The JCRT, a quarterly publication, dedicated to basic and clinical sciences in oncology including radiation oncology.

Impact Factor: **1.96, 2,34, 2.23, 1.89, 1.447**
Issues per year: 6

Journal of Radiation Research

- The *Journal of Radiation Research (JRR)* is an official journal of The **Japan** Radiation Research Society (JRRS), and the Japanese Society for Therapeutic Radiology and Oncology (JASTRO).

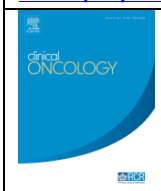
  Since its launch in 1960 as the official journal of the JRRS, the journal has published scientific articles in radiation science in biology, chemistry, physics, epidemiology, and environmental sciences. *JRR* broadened its scope to include oncology in 2009, when JASTRO partnered with the JRRS to publish the journal.

  The journal is bimonthly, and is edited and published by the *JRR* Editorial Committee.

Impact Factor: **0.928, 0.836, 1.011, 0.783, 0.730**
Issues per year: 10

Japanese Journal of Radiology

Japanese Journal of Radiology is a peer-reviewed journal, officially published by the Japan Radiological Society. The main purpose of the journal is to provide a forum for the publication of papers documenting recent advances and new developments in the field of radiology in medicine and biology. The scope of Japanese Journal of Radiology encompasses but is not restricted to diagnostic radiology, interventional radiology, radiation oncology, nuclear medicine, radiation physics, and radiation biology. Additionally, the journal covers technical and industrial innovations. The journal welcomes original articles, case reports, technical notes, review articles, pictorial essays and letters to the editor. The journal also provides announcements from the boards and the committees of the society. Membership in the Japan Radiological Society is not a prerequisite for submission. Contributions are welcomed from all parts of the world.



Impact Factor: **1.984, 2.383, 3.055, 2.072, 2.858**
Issues per year: 10

Clinical Oncology

Clinical Oncology is an official Journal of the Royal College of Radiologists. It provides essential reading for all those with an active interest in the treatment of cancer and its multidisciplinary approach allows readers to keep up-to-date with developments in their own as well as related fields.
*The Journal features papers on all types of malignant disease including pathology, diagnosis and therapy, including radiotherapy, and systemic treatment. (**United Kingdom**)*

Impact Factor: **1.764, 2.762, 2.622, 2.769, 2.698**
Issues per year: 6

Radiation Research

*The official journal of the Radiation Research Society, publishes original and review articles dealing with radiation effects and related subjects in the areas of physics, chemistry, biology and medicine, including epidemiology and translational research. The term radiation is used in its broadest sense and includes specifically ionizing radiation and ultraviolet, visible and infrared light as well as microwaves, ultrasound and heat. Effects may be physical, chemical or biological. Related subjects include (but are not limited to) **dosimetry** methods and instrumentation, isotope techniques and studies with chemical agents contributing to the understanding of radiation effects. **(United States)***

 Impact Factor: **0.985, 1.061, 1.459, 1.589, 1.555** **Issues per year:** 6	***Korean Journal of Radiology*** *The inaugural issue of the Korean J Radiol came out in March 2000. Our journal aims to produce and propagate knowledge on radiologic imaging and related sciences.* *A unique feature of the articles published in the Journal will be their reflection of global trends in radiology combined with an East-Asian perspective. Geographic differences in disease prevalence will be reflected in the contents of papers, and this will serve to enrich our body of knowledge.*