

Radiological Physics and Technology (RPT) を2008年の1月に発刊してから5年目となりました。創刊号から Vol. 5 No. 2までの10冊に154編の論文等が掲載されています。最近では世界の主要な図書館（7000施設）のほとんどでRPTを電子的に閲覧できる環境となりました。また、2010年以降はRPTに掲載された論文は世界中から年間約1万件ダウンロードされています。これに伴い、RPTに掲載された論文を引用する数も増えています。以下に最近の引用状況などをお知らせします。ここに示すように、RPTに掲載された論文は世界中から注目され始めています。今後もみなさんから多くの優れた研究を英語論文としてRPTに投稿していただくことを期待します。

引用状況

表1 2008年、2009年、2010年に掲載された論文のなかでとくに引用が多かった論文

Top cited articles by year

2008

Article Title	Author	Issue
ROC analysis in medical imaging: a tutorial review of the literature	Charles E. Metz	1(1):2-12
Experimental verification of proton beam monitoring in a human body by use of activity image of positron-emitting nuclei generated by nuclear fragmentation reaction	Teiji Nishio, et al.	1(1):44-54
Performance evaluation for 120 four-layer DOI block detectors of the jPET-D4	Naoko Inadama, et al.	1(1):75-82
Development of functional chest imaging with a dynamic flat-panel detector (FPD)	Rie Tanaka, et al.	1(2):137-143
Dosimetric evaluation of nuclear interaction models in the Geant4 Monte Carlo simulation toolkit for carbon-ion radiotherapy	S. Kameoka, et al.	1(2):183-187
Development and performance evaluation of the second model 256-detector row CT	Masahiro Endo, et al.	1(1):20-26

2009

Article Title	Author	Issue
X-ray fluorescence camera for imaging of iodine media in vivo	Hiroshi Matsukiyo, et al	2(1):46-53
Embossed radiography utilizing energy subtraction	Akihiro Osawa, et al	2(1):77-86
Evaluating the performance of a MOSFET dosimeter at diagnostic X-ray energies for interventional radiology	Koichi Chida, et al.	2(1):58-61
Polarity effect in commercial ionization chambers used in photon beams with small fields	Tetsunori Shimono, et al.	2(1):97-103
Imaging simulations of an "OpenPET" geometry with shifting detector rings	Yamaya, Taiga, et al.	2(1):62-69
Use of a clinical MRI scanner for preclinical research on rats	Yamamoto, Akihideo, et al.	2(1):13-21
Numerical evaluation of the effectiveness of colloidal gold as a contrast agent	Noritaka Yusa, et al.	2(1):33-39
Application of an artificial neural network to the computer-aided differentiation of focal liver disease in MR imaging	Xuejun Zhang, et al.	2(2):175-182
Development of a GPU-based multithreaded software application to calculate digitally reconstructed radiographs for radiotherapy	Mori, Shinichiro, et al.	2(1):40-45

2010

Article Title	Author	Issue
Demonstration of iodine K-edge imaging by use of an energy-discrimination X-ray computed tomography system with a cadmium telluride detector	Abulajiang Abudurexiti, et al.	3(2):127-135
A study on the validity of quantitative ultrasonic measurement used the bone mineral density values on dual-energy X-ray absorptiometry in young and in middle-aged or older women	Iida, Tadayuki, et al.	2(2):175-182
Nuclear collision processes around the Bragg peak in proton therapy	Matsuzaki, Yuka, et al	2(1):40-45

Data source: Thomson Reuters, Web of Science © (as of Jan. 2008 - May. 2012)

表2 RPTの論文を引用した割合（国別）

Citation by country

Country	%
Japan	56.18
USA	25.84
Germany	6.74
Canada	3.37
Switzerland	3.37
England	2.25
France	2.25
Netherlands	2.25
Russia	2.25
South Korea	2.25
Sweden	2.25
Austria	1.12
Brazil	1.12
Denmark	1.12
Iran	1.12
Malaysia	1.12
Mexico	1.12
China	1.12
Taiwan	1.12

Data source: Thomson Reuters, Web of Science © (as of Jan. 2008 - May, 2012)

表3 RPTの論文を引用したジャーナルと割合

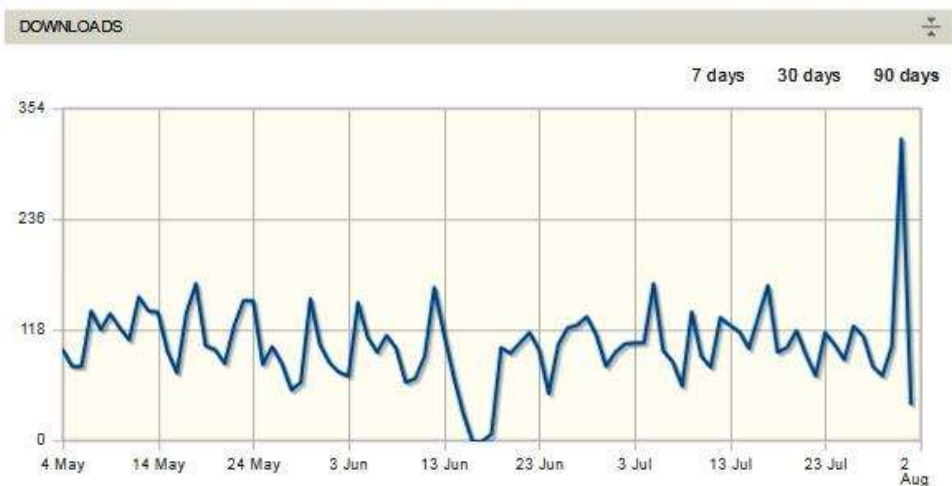
Citation by journal

Journal	%
Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment	15.73
Medical Physics	8.99
Physics in Medicine and Biology	7.87
IEEE Transactions on Nuclear Science	4.5
Seminars in Nuclear Medicine	3.37
Acta Radiologica	2.25
Applied Radiation and Isotopes	2.25
International Journal of Computer Assisted Radiology and Surgery	2.25
International Journal of Radiation Oncology Biology Physics	2.25
Japanese Journal of Applied Physics	2.25
Journal of Applied Clinical Medical Physics	2.25
Journal of Radiation Research	2.25
Journal of the Korean Physical Society	2.25
Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms	2.25
Radiation Protection Dosimetry	2.25
Radiology	2.25

Data source: Thomson Reuters, Web of Science © (as of Jan. 2008 - May, 2012)

RPT誌に掲載された論文等のオープンアクセスのお知らせ

RPTに掲載された論文のなかで直近の7日間、30日間、90日間（右図、2012年6月8日の例）に、数多くダウンロードされたTOP5の論文や編集委員会が指定した論文等は、世界中の人が無料でダウンロードできます。シュプリンガー社のWEBページからご利用ください（www.springer.com/12194）。



Documents

- 501 **Demonstration of iodine K-edge imaging by use of an energy-discrimination X-ray computed tomography system with a cadmium telluride detector**
Abudurexiti, Abulajiang; Kameda, Masashi; Sato, Eiichi Show all authors (14)
- 379 DOI: 10.1007/s12194-011-0122-5
- 314 **X-ray fluorescence camera for imaging of iodine media in vivo**
Matsukiyo, Hiroshi; Watanabe, Manabu; Sato, Eiichi Show all authors (15)
- 314 **Simulation and experimental studies on magnetic hyperthermia with use of superparamagnetic iron oxide nanoparticles**
Murase, Kenya; Oonoki, Junko; Takata, Hiroshige Show all authors (7)
- 236 **Development and performance evaluation of the second model 256-detector row CT**
Endo, Masahiro; Mori, Shinichiro; Kandatsu, Susumu Show all authors (5)