

Author Full Names	Article Title	Times Cited	Publication Year	Volume	Issue	Start Page	End Page	DOI
Hiremath, G. B.; Singh, V. P.; Ayachit, N. H.; Badiger, N. M.	Investigation of the nuclear radiation interaction parameters of selected polymers for radiation therapy and dosimetry	6	2023	16	2	168	185	10.1007/s12194-023-00704-7
Shimokawa, Daiki; Takahashi, Kengo; Kurosawa, Daiya; Takaya, Eichi; Oba, Ken; Yagishita, Kazuyo; Fukuda, Toshinori; Tsunoda, Hiroko; Ueda, Takuya	Deep learning model for breast cancer diagnosis based on bilateral asymmetrical detection (BIAD) in digital breast tomosynthesis images	5	2023	16	1	20	27	10.1007/s12194-022-00686-y
Ono, Tomohiro; Kawata, Kohei; Nakamura, Mitsuhiro; Uto, Megumi; Mizowaki, Takashi	Small-field dosimetry with detector-specific output correction factor for single-isocenter stereotactic radiotherapy of single and multiple brain metastases	3	2023	16	1	10	19	10.1007/s12194-022-00684-0
Asadpour, Nikan; Malekzadeh, Reza; Rajabpour, Saeed; Refahi, Soheila; Mehnati, Parinaz; Shanei, Ahmad	Shielding performance of multi-metal nanoparticle composites for diagnostic radiology: an MCNPX and Geant4 study	3	2023	16	1	57	68	10.1007/s12194-022-00690-2
Moonkum, Nutthapong; Jitchom, Supattra; Sukaram, Sorasit; Nimtrakool, Nichanard; Boonrat, Pongviroj; Tochaikul, Gunjanaporn	Determination of scattered radiation dose for radiological staff during portable chest examinations of COVID-19 patients	3	2023	16	1	85	93	10.1007/s12194-023-00698-2
Ichikawa, Shota; Itadani, Hideki; Sugimori, Hiroyuki	Prediction of body weight from chest radiographs using deep learning with a convolutional neural network	3	2023	16	1	127	134	10.1007/s12194-023-00697-3
Endo, Masahiro	Creation, evolution, and future challenges of ion beam therapy from a medical physicist's viewpoint (Part 2). Chapter 2. Biophysical model, treatment planning system and image guided radiotherapy	2	2023	16	2	137	159	10.1007/s12194-023-00722-5
Khadem-Reza, Zahra Khandan; Shahram, Mohammad Amin; Zare, Hoda	Altered resting-state functional connectivity of the brain in children with autism spectrum disorder	2	2023	16	2	284	291	10.1007/s12194-023-00717-2
Urikura, Atsushi; Yoshida, Tsukasa; Matsubara, Kosuke; Nomura, Keiichi; Hoshino, Takashi; Takagi, Takashi	Number of computed tomography scanners and regional disparities based on population and medical resources in Japan	2	2023	16	3	355	365	10.1007/s12194-023-00725-2
Hayashi, Naoki; Okumura, Masahiko; Nakamura, Mitsuhiro; Ishihara, Yoshitomo; Ota, Seiichi; Tohyama, Naoki; Shimomura, Kohei; Okamoto, Hiroyuki; Onishi, Hiroshi	Current status of the educational environment to acquire and maintain the professional skills of radiotherapy technology and medical physics specialists in Japan: a nationwide survey	1	2023	16	4	431	442	10.1007/s12194-023-00739-w
Murayama, Hideo; Yamaya, Taiga	Eiichi Tanaka, Ph.D. (1927-2021): pioneer of the gamma camera and PET in nuclear medicine physics	1	2023	16	1	1	7	10.1007/s12194-022-00693-z
Nitta, Munetaka; Nishikido, Fumihiko; Inadama, Naoko; Hirano, Yoshiyuki; Yamaya, Taiga	Discrimination of inter-crystal scattering events by signal processing for the X'tal cube PET detector	1	2023	16	4	516	531	10.1007/s12194-023-00740-3
Kanematsu, Nobuyuki; Araki, Fujio; Koder, Yoshie; Miyati, Tosiaki; Sakae, Takeji; Shiraishi, Junji; Uchiyama, Yoshikazu; Yamaya, Taiga	Announcement of nominations for the Radiological Physics and Technology awards 2022	1	2023	16	1	8	9	10.1007/s12194-023-00699-1
Iwao, Yuma; Akamatsu, Go; Tashima, Hideaki; Takahashi, Miwako; Yamaya, Taiga	Pre-acquired CT-based attenuation correction with automated headrest removal for a brain-dedicated PET system	1	2023	16	4	552	559	10.1007/s12194-023-00744-z
Shirakawa, Yuya; Matsutomoto, Norikazu	Impact of list-mode reconstruction and image-space point spread function correction on PET image contrast and quantitative value using SiPM-based PET/CT system	1	2023	16	3	384	396	10.1007/s12194-023-00729-y
Shiraishi, Junji; Katsuragawa, Shigehiko	Dr. Kunio Doi is awarded the 23rd Gray Medal by the ICRU	1	2023	16	2	135	136	10.1007/s12194-023-00724-3

Sasaki, Makoto; Matsushita, Norimasa; Fujimoto, Takahiro; Nakata, Manabu; Ono, Yuka; Yoshimura, Michio; Mizowaki, Takashi	New patient setup procedure using surface-guided imaging to reduce body touch and skin marks in whole-breast irradiation during the COVID-19 pandemic	1	2023	16	3	422	429	10.1007/s12194-023-00735-0
Shimokawa, Daiki; Takahashi, Kengo; Oba, Ken; Takaya, Eichi; Usuzaki, Takuma; Kadowaki, Mizuki; Kawaguchi, Kurara; Adachi, Maki; Kaneno, Tomofumi; Fukuda, Toshinori; Yagishita, Kazuyo; Tsunoda, Hiroko; Ueda, Takuya	Deep learning model for predicting the presence of stromal invasion of breast cancer on digital breast tomosynthesis	1	2023	16	3	406	413	10.1007/s12194-023-00731-4
Takahashi, Akihiko; Kajiya, Ryosuke; Baba, Shingo; Sasaki, Masayuki	Monte Carlo simulation study to explore optimum conditions for Astatine-211 SPECT	1	2023	16	1	102	108	10.1007/s12194-023-00702-9
Zhang, Chunsu; Lewin, Will; Cullen, Ashley; Thommen, Daniel; Hill, Robin	Evaluation of 3D-printed bolus for radiotherapy using megavoltage X-ray beams	1	2023	16	3	414	421	10.1007/s12194-023-00727-0
Shimakawa, Yurie; Nishiki, Masayuki; Yanagita, Satoshi; Nishikawa, Noriko; Sakai, Takayuki; Ito, Hajime; Ochi, Shigehiro; Yanagawa, Noriyuki	Evaluation of x-ray effective focal spot size dependency on x-ray exposure settings using edge response analysis	1	2023	16	1	39	47	10.1007/s12194-022-00688-w
Narita, Akihiro; Ohsugi, Yuki; Ohkubo, Masaki; Fukaya, Takahiro; Sakai, Kenichi; Noto, Yoshiyuki	Method for measuring noise-power spectrum independent of the effect of extracting the region of interest from a noise image	1	2023	16	4	471	477	10.1007/s12194-023-00733-2
Oguma, Kohei; Magome, Taiki; Someya, Masanori; Hasegawa, Tomokazu; Sakata, Koh-ichi	Virtual clinical trial based on outcome modeling with iteratively redistributed extrapolation data	1	2023	16	2	262	271	10.1007/s12194-023-00715-4
Nakayama, Shinichi; Hirose, Miduki; Kaneshige, Soichiro; Nakamura, Kenji; Matsuo, Yukinori; Monzen, Hajime	Development and evaluation of a novel water-based pigment marker for radiation therapy skin marking	1	2023	16	4	543	551	10.1007/s12194-023-00743-0

Data source: [基本検索](#), Web of Science, as of 29 May 2024

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