

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	13	2023	16	2	168	185	10.1007/s12194-023-00704-7
Khadem-Reza, Zahra Khandan; Shahram, Mohammad Amin; Zare, Hoda	Altered resting-state functional connectivity of the brain in children with autism spectrum disorder	9	2023	16	2	284	291	10.1007/s12194-023-00717-2
Zhang, Chunsu; Lewin, Will; Cullen, Ashley; Thommen, Daniel; Hill, Robin	Evaluation of 3D-printed bolus for radiotherapy using megavoltage X-ray beams	8	2023	16	3	414	421	10.1007/s12194-023-00727-0
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	8	2023	16	1	57	68	10.1007/s12194-022-00690-2
Shimokawa, Daiki; Takahashi, Kengo; Kurosawa, Daiya; Takaya, Eichi; Obata, 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	7	2023	16	1	20	27	10.1007/s12194-022-00686-y
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	6	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	6	2023	16	1	127	134	10.1007/s12194-023-00697-3
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	4	2023	16	1	10	19	10.1007/s12194-022-00684-0
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	4	2023	16	3	355	365	10.1007/s12194-023-00725-2
Kumahara, Narumi; Takemura, Akihiro; Ishihara, Shouta; Noto, Kimiya; Kojima, Hironori; Isomura, Naoki; Yokoyama, Haruna; Goto, Itsuki	Sensitivity of a bone-equivalent polymer gel dosimeter for measuring the dose to bone during radiation therapy	4	2023	16	2	227	234	10.1007/s12194-023-00710-9
Tohyama, 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	3	2023	16	4	431	442	10.1007/s12194-023-00739-w
Shirakawa, Yuya; Matsutomo, 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	3	2023	16	3	384	396	10.1007/s12194-023-00729-y
Yamamoto, Yuki; Ohira, Shingo; Kanayama, Naoyuki; Inui, Shoki; Ueda, Yoshihiro; Koike, Yuhei; Miyazaki, Masayoshi; Nishio, Teiji; Koizumi, Masahiko; Konishi, Koji	Comparison of dosimetric parameters and robustness for rotational errors in fractionated stereotactic irradiation using automated noncoplanar volumetric modulated arc therapy for patients with brain metastases: single-versus multi-isocentric technique	2	2023	16	2	310	318	10.1007/s12194-023-00720-7

Inaniwa, Taku; Weichert, Emely; Masuda, Takamitsu; Tanaka, Sodai; Matsufuji, Naruhiro; Kanematsu, Nobuyuki	Stopping-power ratio of body tissues with updated effective energies and elemental I values for treatment planning of proton therapy and ion beam therapy with helium, carbon, oxygen, and neon ions	2	2023	16	2	319	324	10.1007/s12194-023-00721-6
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	2	2023	16	3	422	429	10.1007/s12194-023-00735-0
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
Tashima, Hideaki; Nishina, Takumi; Takyu, Sodai; Nishikido, Fumihiko; Suga, Mikio; Yamaya, Taiga	Optimum selection for multi-interaction events in Compton-PET hybrid reconstruction: a Monte Carlo study	2	2023	16	2	254	261	10.1007/s12194-023-00714-5
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	2	2023	16	4	552	559	10.1007/s12194-023-00744-z
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	2	2023	16	1	39	47	10.1007/s12194-022-00688-w
Oguma, Kohei; Magome, Taiki; Someya, Masanori; Hasegawa, Tomokazu; Sakata, Koh-ichi	Virtual clinical trial based on outcome modeling with iteratively redistributed extrapolation data	2	2023	16	2	262	271	10.1007/s12194-023-00715-4
Funashima, Kentaro; Abiko, Shigeru; Sato, Kazuhiro	Novel method for calculating the effective dose using size-specific dose estimates conversion factors in abdomen-pelvis computed tomography	2	2023	16	4	506	515	10.1007/s12194-023-00738-x
Cumur, Ceyda; Fujibuchi, Toshioh; Arakawa, Hiroyuki; Hamada, Keisuke	Dose estimation for cone-beam computed tomography in image-guided radiation therapy for pelvic cancer using adult mesh-type reference computational phantoms	2	2023	16	2	203	211	10.1007/s12194-023-00708-3
Takahashi, Akihiko; Kajiya, Ryosuke; Baba, Shingo; Sasaki, Masayuki	Monte Carlo simulation study to explore optimum conditions for Astatine-211 SPECT	2	2023	16	1	102	108	10.1007/s12194-023-00702-9
Takeshita, Toshiaki; Nambu, Atsushi; Tago, Masao; Yorita, Masaki; Ikezoe, Mariko; Nishizawa, Kentaro; Magome, Taiki; Sasaki, Masayuki	The influence of image reconstruction methods on the diagnosis of pulmonary emphysema with convolutional neural network	2	2023	16	4	488	496	10.1007/s12194-023-00736-z
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
Matsumoto, Kenki; Maruyama, Ayaka; Watanabe, Satoru; Tachibana, Ryosuke; Yamaguchi, Toshiya; Suzuki, Kouki; Kurihara, Yoshiki; Maehara, Masayoshi; Arakawa, Satoshi; Hosokai, Yoshiyuki	Characteristics of a real-time radiation exposure dosimetry system using a synthetic ruby for radiotherapy	1	2023	16	1	69	76	10.1007/s12194-022-00691-1
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

El Ghabbzouri, Tarik; El Bardouni, Tarek; El Bakkali, Jaafar; Ziani, Hafssa; Doudouh, Abderrahim	Validation of the DoseCalcs Monte Carlo code for estimating the 18F S-values for ICRP adult and 15-year-old male and female phantoms	1	2023	16	2	212	226	10.1007/s12194-023-00709-2
Saito, Tatsunori; Hayashi, Naoki; Amma, Hiroshi; Onishi, Kazuki; Muraki, Yuta; Nozue, Masashi	Development of a new coordinate calibration phantom for a light-section-based optical surface monitoring system	1	2023	16	3	366	372	10.1007/s12194-023-00726-1
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
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
Kanematsu, Nobuyuki; Araki, Fujio; Kodera, 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
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
Gallio, Elena; Sardo, Anna; Badellino, Serena; Mantovani, Cristina; Levis, Mario; Fiandra, Christian; Guarneri, Alessia; Arcadipane, Francesca; Richetto, Veronica; Ricardi, Umberto; Giglioli, Francesca Romana	Helical tomotherapy and two types of volumetric modulated arc therapy: dosimetric and clinical comparison for several cancer sites	1	2023	16	2	272	283	10.1007/s12194-023-00716-3
Oku, Yoshifumi; Toyota, Masahiko; Saigo, Yasumasa	Characteristics of detection accuracy of the patient setup using InBore optical patient positioning system	1	2023	16	4	532	542	10.1007/s12194-023-00741-2
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
Yamashita, Shozo; Okuda, Koichi; Nakaichi, Tetsu; Yamamoto, Haruki; Yoneyama, Tatsuya; Yokoyama, Kunihiro	Modified signal-to-noise ratio in the liver using the background-to-lung activity ratio to assess image quality of whole-body 18F-fluorodeoxyglucose positron emission tomography	1	2023	16	1	94	101	10.1007/s12194-023-00700-x

Data source: [基本検索, Web of Science](#), as of 5 March 2025

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