

Author Full Names	Article Title	Times Cited	Publication Year	Volume	Issue	Start Page	End Page	DOI
Suzuki, Kenji	Overview of deep learning in medical imaging	640	2017	10	3	257	273	10.1007/s12194-017-0406-5
Fujita, Hiroshi	AI-based computer-aided diagnosis (AI-CAD): the latest review to read first	187	2020	13	1	6	19	10.1007/s12194-019-00552-4
van Ginneken, Bram	Fifty years of computer analysis in chest imaging: rule-based, machine learning, deep learning	120	2017	10	1	23	32	10.1007/s12194-017-0394-5
Kaji, Shizuo; Kida, Satoshi	Overview of image-to-image translation by use of deep neural networks: denoising, super-resolution, modality conversion, and reconstruction in medical imaging	107	2019	12	3	235	248	10.1007/s12194-019-00520-y
Metz, Charles E.	ROC analysis in medical imaging: a tutorial review of the literature	103	2008	1	1	2	12	10.1007/s12194-007-0002-1
Mori, Issei; Machida, Yoshio; Osanai, Makoto; Iinuma, Kazuhiro	Photon starvation artifacts of X-ray CT: their true cause and a solution	96	2013	6	1	130	141	10.1007/s12194-012-0179-9
Tanaka, Rie	Dynamic chest radiography: flat-panel detector (FPD) based functional X-ray imaging	95	2016	9	2	139	153	10.1007/s12194-016-0361-6
Taguchi, Katsuyuki	Energy-sensitive photon counting detector-based X-ray computed tomography	78	2017	10	1	8	22	10.1007/s12194-017-0390-9
Chida, Koichi	What are useful methods to reduce occupational radiation exposure among radiological medical workers, especially for interventional radiology personnel?	58	2022	15	2	101	115	10.1007/s12194-022-00660-8
Yabunaka, Koichi; Sanada, Hiromi; Sanada, Shigeru; Konishi, Hideki; Hashimoto, Tsutomu; Yatake, Hidetoshi; Yamamoto, Kenyu; Katsuda, Toshizo; Ohue, Mutsumi	Sonographic assessment of hyoid bone movement during swallowing: a study of normal adults with advancing age	51	2011	4	1	73	77	10.1007/s12194-010-0107-9
Chida, Koichi; Inaba, Youhei; Masuyama, Hanako; Yanagawa, Isao; Mori, Issei; Saito, Haruo; Maruoka, Shin; Zuguchi, Masayuki	Evaluating the performance of a MOSFET dosimeter at diagnostic X-ray energies for interventional radiology	51	2009	2	1	58	61	10.1007/s12194-008-0044-z
Tashima, Hideaki; Yamaya, Taiga	Compton imaging for medical applications	48	2022	15	3	187	205	10.1007/s12194-022-00666-2
Haga, Akihiro; Takahashi, Wataru; Aoki, Shuri; Nawa, Kanabu; Yamashita, Hideomi; Abe, Osamu; Nakagawa, Keiichi	Classification of early stage non-small cell lung cancers on computed tomographic images into histological types using radiomic features: interobserver delineation variability analysis	48	2018	11	1	27	35	10.1007/s12194-017-0433-2
Tashiro, Mutsumi; Ishii, Takayoshi; Koya, Jun-Ichi; Okada, Ryosuke; Kurosawa, Yuji; Arai, Keisuke; Abe, Satoshi; Ohashi, Yoshiaki; Shimada, Hirofumi; Yusa, Ken; Kanai, Tatsuki; Yamada, Satoru; Kawamura, Hidemasa; Ebara, Takeshi; Ohno, Tatsuya; Nakano, Takashi	Technical approach to individualized respiratory-gated carbon-ion therapy for mobile organs	47	2013	6	2	356	366	10.1007/s12194-013-0208-3
Takahashi, Noriyuki; Lee, Yongbum; Tsai, Du-Yih; Matsuyama, Eri; Kinoshita, Toshiyuki; Ishii, Kiyoshi	An automated detection method for the MCA dot sign of acute stroke in unenhanced CT	46	2014	7	1	79	88	10.1007/s12194-013-0234-1
Brosi, Philippe; Stuessi, Anja; Verdun, Francis R.; Vock, Peter; Wolf, Rainer	Copper filtration in pediatric digital X-ray imaging: its impact on image quality and dose	43	2011	4	2	148	155	10.1007/s12194-011-0115-4
Abudurexiti, Abulajiang; Kameda, Masashi; Sato, Eiichi; Abderyim, Purkhet; Enomoto, Toshiyuki; Watanabe, Manabu; Hitomi, Keitaro; Tanaka, Etsuro; Mori, Hidezo; Kawai, Toshiaki; Takahashi, Kiyomi; Sato, Shigehiro; Ogawa, Akira; Onagawa, Jun	Demonstration of iodine K-edge imaging by use of an energy-discrimination X-ray computed tomography system with a cadmium telluride detector	41	2010	3	2	127	135	10.1007/s12194-010-0088-8
Urikura, Atsushi; Ichikawa, Katsuhiro; Hara, Takanori; Nishimaru, Eiji; Nakaya, Yoshihiro	Spatial resolution measurement for iterative reconstruction by use of image-averaging techniques in computed tomography.	40	2014	7	2	358	66	10.1007/s12194-014-0273-2
Chen, George T. Y.; Sharp, Gregory C.; Mori, Shinichiro	A review of image-guided radiotherapy	40	2009	2	1	1	12	10.1007/s12194-008-0045-y

Saito, Shigeyoshi; Takahashi, Yusuke; Ohki, Akiko; Shintani, Yasunori; Higuchi, Takahiro	Early detection of elevated lactate levels in a mitochondrial disease model using chemical exchange saturation transfer (CEST) and magnetic resonance spectroscopy (MRS) at 7T-MRI	39	2019	12	1	46	54	10.1007/s12194-018-0490-1
Mori, Hiroshige; Koshida, Kichiro; Ishigamori, Osamu; Matsubara, Kosuke	Evaluation of the effectiveness of X-ray protective aprons in experimental and practical fields	38	2014	7	1	158	166	10.1007/s12194-013-0246-x
Coppeta, Luca; Pietroiusti, Antonio; Neri, Anna; Spataro, Agostino; De Angelis, Elisabetta; Perrone, Stefano; Magrini, Andrea	Risk of radiation-induced lens opacities among surgeons and interventional medical staff	37	2019	12	1	26	29	10.1007/s12194-018-0487-9
Takenaga, Tomomi; Katsuragawa, Shigehiko; Goto, Makoto; Hatemura, Masahiro; Uchiyama, Yoshikazu; Shiraishi, Junji	Modulation transfer function measurement of CT images by use of a circular edge method with a logistic curve-fitting technique	37	2015	8	1	53	59	10.1007/s12194-014-0286-x
Mehnnati, Parinaz; Malekzadeh, Reza; Sooteh, Mohammad Yousefi	Use of bismuth shield for protection of superficial radiosensitive organs in patients undergoing computed tomography: a literature review and meta-analysis	36	2019	12	1	6	25	10.1007/s12194-019-00500-2
Hashimoto, Fumio; Kakimoto, Akihiro; Ota, Nozomi; Ito, Shigeru; Nishizawa, Sadahiko	Automated segmentation of 2D low-dose CT images of the psoas-major muscle using deep convolutional neural networks	34	2019	12	2	210	215	10.1007/s12194-019-00512-y
Murase, Kenya; Oonoki, Junko; Takata, Hiroshige; Song, Ruixiao; Angraini, Anggia; Ausanai, Prapan; Matsushita, Taro	Simulation and experimental studies on magnetic hyperthermia with use of superparamagnetic iron oxide nanoparticles	34	2011	4	2	194	202	10.1007/s12194-011-0123-4
Mori, Issei; Machida, Yoshio	Deriving the modulation transfer function of CT from extremely noisy edge profiles	34	2009	2	1	22	32	10.1007/s12194-008-0039-9
Sakai, Ayaka; Onishi, Yuya; Matsui, Misaki; Adachi, Hidetoshi; Teramoto, Atsushi; Saito, Kuniaki; Fujita, Hiroshi	A method for the automated classification of benign and malignant masses on digital breast tomosynthesis images using machine learning and radiomic features	33	2020	13	1	27	36	10.1007/s12194-019-00543-5
Furuta, Takuya; Sato, Tatsuhiro	Medical application of particle and heavy ion transport code system PHITS	32	2021	14	3	215	225	10.1007/s12194-021-00628-0
Malekzadeh, Reza; Mehnnati, Parinaz; Sooteh, Mohammad Yousefi; Mesbahi, Asghar	Influence of the size of nano- and microparticles and photon energy on mass attenuation coefficients of bismuth-silicon shields in diagnostic radiology	32	2019	12	3	325	334	10.1007/s12194-019-00529-3
Nishio, Teiji; Miyatake, Aya; Inoue, Kazumasa; Gomi-Miyagishi, Tomoko; Kohno, Ryosuke; Kameoka, Satoru; Nakagawa, Keiichi; Ogino, Takashi	Experimental verification of proton beam monitoring in a human body by use of activity image of positron-emitting nuclei generated by nuclear fragmentation reaction	32	2008	1	1	44	54	10.1007/s12194-007-0008-8
Nishitani, Yuya; Nakayama, Ryohei; Hayashi, Daisei; Hizukuri, Akiyoshi; Murata, Kan	Segmentation of teeth in panoramic dental X-ray images using U-Net with a loss function weighted on the tooth edge	30	2021	14	1	64	69	10.1007/s12194-020-00603-1
Takegami, Kazuki; Hayashi, Hiroaki; Okino, Hiroki; Kimoto, Natsumi; Maehata, Itsumi; Kanazawa, Yuki; Okazaki, Tohru; Kobayashi, Ikuo	Practical calibration curve of small-type optically stimulated luminescence (OSL) dosimeter for evaluation of entrance skin dose in the diagnostic X-ray region	30	2015	8	2	286	294	10.1007/s12194-015-0318-1
Nemoto, Takafumi; Futakami, Natsumi; Kunieda, Etsuo; Yagi, Masamichi; Takeda, Atsuya; Akiba, Takeshi; Mutu, Eride; Shigematsu, Naoyuki	Effects of sample size and data augmentation on U-Net-based automatic segmentation of various organs	29	2021	14	3	318	327	10.1007/s12194-021-00630-6
Inaba, Yohei; Chida, Koichi; Murabayashi, Yuuki; Endo, Mime; Ootomo, Kazuki; Zuguchi, Masayuki	An initial investigation of a wireless patient radiation dosimeter for use in interventional radiology	29	2020	13	3	321	326	10.1007/s12194-020-00575-2
Ota, Ryosuke	Photon counting detectors and their applications ranging from particle physics experiments to environmental radiation monitoring and medical imaging	28	2021	14	2	134	148	10.1007/s12194-021-00615-5
Hayashi, Shin-ichiro; Kawamura, Hiraku; Usui, Shuji; Tominaga, Takahiro	Influence of magnesium chloride on the dose-response of polyacrylamide-type gel dosimeters	27	2018	11	4	375	381	10.1007/s12194-018-0473-2
Hirano, Yoshiyuki; Nitta, Munetaka; Inadama, Naoko; Nishikido, Fumihiko; Yoshida, Eiji; Murayama, Hideo; Yamaya, Taiga	Performance evaluation of a depth-of-interaction detector by use of position-sensitive PMT with a super-bialkali photocathode	27	2014	7	1	57	66	10.1007/s12194-013-0231-4

Onishi, Hideo; Motomura, Nobutoku; Fujino, Koichi; Natsume, Takahiro; Haramoto, Yasuhiro	Quantitative performance of advanced resolution recovery strategies on SPECT images: evaluation with use of digital phantom models	27	2013	6	1	42	53	10.1007/s12194-012-0168-z
Matsukiyo, Hiroshi; Watanabe, Manabu; Sato, Eiichi; Osawa, Akihiro; Enomoto, Toshiyuki; Nagao, Jiro; Abderyim, Purkhet; Aizawa, Katsuo; Tanaka, Etsuro; Mori, Hidezo; Kawai, Toshiaki; Ehara, Shigeru; Sato, Shigehiro; Ogawa, Akira; Onagawa, Jun	X-ray fluorescence camera for imaging of iodine media in vivo	27	2009	2	1	46	53	10.1007/s12194-008-0042-1
Ishii, Hiroki; Chida, Koichi; Satsurai, Ko; Haga, Yoshihiro; Kaga, Yuji; Abe, Mitsuya; Inaba, Yohei; Zuguchi, Masayuki	Occupational eye dose correlation with neck dose and patient-related quantities in interventional cardiology procedures	26	2022	15	1	54	62	10.1007/s12194-022-00650-w
Aluwee, Sayed Ahmad Zikri Bin Sayed; Zhou, Xiangrong; Kato, Hiroki; Makino, Hiroshi; Muramatsu, Chisako; Hara, Takeshi; Matsuo, Masayuki; Fujita, Hiroshi	Evaluation of pre-surgical models for uterine surgery by use of three-dimensional printing and mold casting	26	2017	10	3	279	285	10.1007/s12194-017-0397-2
Chida, Koichi; Inaba, Yohei; Morishima, Yoshiaki; Taura, Masaaki; Ebata, Ayako; Yanagawa, Isao; Takeda, Ken; Zuguchi, Masayuki	Comparison of dose at an interventional reference point between the displayed estimated value and measured value	26	2011	4	2	189	193	10.1007/s12194-011-0121-6
Terunuma, Toshiyuki; Tokui, Aoi; Sakae, Takeji	Novel real-time tumor-contouring method using deep learning to prevent mistracking in X-ray fluoroscopy	25	2018	11	1	43	53	10.1007/s12194-017-0435-0
Hardie, Andrew D.; Nelson, Rachel M.; Egbert, Robert; Rieter, William J.; Tipnis, Sameer V.	What is the preferred strength setting of the sinogram-affirmed iterative reconstruction algorithm in abdominal CT imaging?	25	2015	8	1	60	63	10.1007/s12194-014-0288-8
Miura, Yuka; Nakagami, Gojiro; Yabunaka, Koichi; Tohara, Haruka; Murayama, Ryoko; Noguchi, Hiroshi; Mori, Taketoshi; Sanada, Hiromi	Method for detection of aspiration based on B-mode video ultrasonography	25	2014	7	2	290	295	10.1007/s12194-014-0264-3
Fukunaga, Issei; Hori, Masaaki; Masutani, Yoshitaka; Hamasaki, Nozomi; Sato, Shuji; Suzuki, Yuriko; Kumagai, Fumitaka; Kosuge, Masatsugu; Hoshito, Haruyoshi; Kamagata, Koji; Shimoji, Keigo; Nakanishi, Atsushi; Aoki, Shigeki; Senoo, Atsushi	Effects of diffusional kurtosis imaging parameters on diffusion quantification	25	2013	6	2	343	348	10.1007/s12194-013-0206-5
Kamiya, Naoki; Zhou, Xiangrong; Chen, Huayue; Muramatsu, Chisako; Hara, Takeshi; Yokoyama, Ryujiro; Kanematsu, Masayuki; Hoshi, Hiroaki; Fujita, Hiroshi	Automated segmentation of psoas major muscle in X-ray CT images by use of a shape model: preliminary study	25	2012	5	1	5	14	10.1007/s12194-011-0127-0
Inaba, Yohei; Nakamura, Masaaki; Chida, Koichi; Zuguchi, Masayuki	Effectiveness of a novel real-time dosimeter in interventional radiology: a comparison of new and old radiation sensors	24	2018	11	4	445	450	10.1007/s12194-018-0484-z
Miyahara, Nobuyuki; Kokubo, Toshiaki; Hara, Yukihiro; Yamada, Ayuta; Koike, Takafumi; Arai, Yoshinori	Evaluation of X-ray doses and their corresponding biological effects on experimental animals in cone-beam micro-CT scans (R-mCT2)	23	2016	9	1	60	68	10.1007/s12194-015-0334-1
Hopkins, Deidre N.; Maqbool, Muhammad; Islam, Mohammed S.	Linear attenuation coefficient and buildup factor of MCP-96 alloy for dose accuracy, beam collimation, and radiation protection	23	2012	5	2	229	236	10.1007/s12194-012-0158-1
Okumura, Eiichi; Kawashita, Ikuro; Ishida, Takayuki	Development of CAD based on ANN analysis of power spectra for pneumoconiosis in chest radiographs: effect of three new enhancement methods	22	2014	7	2	217	227	10.1007/s12194-013-0255-9
Mori, Shinichiro; Zenklusen, Silvan; Knopf, Antje-Christin	Current status and future prospects of multi-dimensional image-guided particle therapy	22	2013	6	2	249	272	10.1007/s12194-013-0199-0
Yabunaka, Koichi; Konishi, Hideki; Nakagami, Gojiro; Sanada, Hiromi; Iizaka, Shinji; Sanada, Shigeru; Ohue, Mutsumi	Ultrasonographic evaluation of geniohyoid muscle movement during swallowing: a study on healthy adults of various ages	22	2012	5	1	34	39	10.1007/s12194-011-0132-3

Mitsui, Takashi; Fujii, Masazumi; Tsuzaka, Masatoshi; Hayashi, Yuichiro; Asahina, Yoshinori; Wakabayashi, Toshihiko	Skin shift and its effect on navigation accuracy in image-guided neurosurgery	22	2011	4	1	37	42	10.1007/s12194-010-0103-0
Yamamoto, Seiichi	Discovery of the luminescence of water during irradiation of radiation at a lower energy than the Cherenkov light threshold	21	2021	14	1	16	24	10.1007/s12194-020-00588-x
Nakamura, Masanobu; Yoneyama, Masami; Tabuchi, Takashi; Takemura, Atsushi; Obara, Makoto; Tatsuno, Satoshi; Sawano, Seishi	Vessel-selective, non-contrast enhanced, time-resolved MR angiography with vessel-selective arterial spin labeling technique (CINEMA-SELECT) in intracranial arteries	21	2013	6	2	327	334	10.1007/s12194-013-0204-7
Ohnishi, Takashi; Suzuki, Masahiko; Nawata, Atsushi; Naomoto, Shinji; Iwasaki, Tetsuji; Haneishi, Hideaki	Three-dimensional motion study of femur, tibia, and patella at the knee joint from bi-plane fluoroscopy and CT images	21	2010	3	2	151	158	10.1007/s12194-010-0090-1
Saito, Noriyuki; Kudo, Kohsuke; Sasaki, Tsukasa; Uesugi, Masahito; Koshino, Kazuhiro; Miyamoto, Michiko; Suzuki, Shigehito	Realization of reliable cerebral-blood-flow maps from low-dose CT perfusion images by statistical noise reduction using nonlinear diffusion filtering	21	2008	1	1	62	74	10.1007/s12194-007-0009-7
Tanabe, Yoshinori; Ishida, Takayuki	Quantification of the accuracy limits of image registration using peak signal-to-noise ratio	20	2017	10	1	91	94	10.1007/s12194-016-0372-3
Suzuki, Yusuke; Hayashi, Naoki; Kato, Hideki; Fukuma, Hiroshi; Hirose, Yasujiro; Kawano, Makoto; Nishii, Yoshio; Nakamura, Masaru; Mukouyama, Takashi	Prediction of back-scatter radiations to a beam monitor chamber of medical linear accelerators by use of the digitized target-current-pulse analysis method	20	2013	6	1	142	150	10.1007/s12194-012-0191-0
Yamaguchi, Isao; Kidoya, Eiji; Suzuki, Masayuki; Kimura, Hirohiko	Optimizing scan timing of hepatic arterial phase by physiologic pharmacokinetic analysis in bolus-tracking technique by multi-detector row computed tomography	20	2011	4	1	43	52	10.1007/s12194-010-0105-y
Kajikawa, Tomohiro; Kadoya, Noriyuki; Ito, Kengo; Takayama, Yoshiaki; Chiba, Takahito; Tomori, Seiji; Takeda, Ken; Jingu, Keiichi	Automated prediction of dosimetric eligibility of patients with prostate cancer undergoing intensity-modulated radiation therapy using a convolutional neural network	19	2018	11	3	320	327	10.1007/s12194-018-0472-3
Arimura, Hidetaka; Soufi, Mazen; Ninomiya, Kenta; Kamezawa, Hidemi; Yamada, Masahiro	Potentials of radiomics for cancer diagnosis and treatment in comparison with computer-aided diagnosis	19	2018	11	4	365	374	10.1007/s12194-018-0486-x
Saho, Tatsunori; Onishi, Hideo	Evaluation of the impact of carotid artery bifurcation angle on hemodynamics by use of computational fluid dynamics: a simulation and volunteer study	19	2016	9	2	277	285	10.1007/s12194-016-0360-7
Mizuta, Masayoshi; Sanada, Shigeru; Akazawa, Hiroyuki; Kasai, Toshifumi; Abe, Shuji; Ikeno, Yasuhiro; Mitou, Shigeki	Comparison of anti-scatter grids for digital imaging with use of a direct-conversion flat-panel detector	19	2012	5	1	46	52	10.1007/s12194-011-0134-1
Yoshida, Eiji; Kinouchi, Shoko; Tashima, Hideaki; Nishikido, Fumihiko; Inadama, Naoko; Murayama, Hideo; Yamaya, Taiga	System design of a small OpenPET prototype with 4-layer DOI detectors	19	2012	5	1	92	97	10.1007/s12194-011-0142-1
Kida, Satoshi; Masutani, Yoshitaka; Yamashita, Hideomi; Imae, Toshikazu; Matsuura, Taeko; Saotome, Naoya; Ohtomo, Kuni; Nakagawa, Keiichi; Haga, Akihiro	In-treatment 4D cone-beam CT with image-based respiratory phase recognition	19	2012	5	2	138	147	10.1007/s12194-012-0146-5
Onishi, Yuya; Teramoto, Atsushi; Tsujimoto, Masakazu; Tsukamoto, Tetsuya; Saito, Kuniaki; Toyama, Hiroshi; Imaizumi, Kazuyoshi; Fujita, Hiroshi	Investigation of pulmonary nodule classification using multi-scale residual network enhanced with 3DGAN-synthesized volumes	18	2020	13	2	160	169	10.1007/s12194-020-00564-5
Usui, Keisuke; Ichimaru, Yasunobu; Okumura, Yasuhiro; Murakami, Katsuki; Seo, Makoto; Kunieda, Etsuo; Ogawa, Koichi	Dose calculation with a cone beam CT image in image-guided radiation therapy	18	2013	6	1	107	114	10.1007/s12194-012-0176-z
Zhang, Xuejun; Kanematsu, Masayuki; Fujita, Hiroshi; Zhou, Xiangrong; Hara, Takeshi; Yokoyama, Ryujiro; Hoshi, Hiroaki	Application of an artificial neural network to the computer-aided differentiation of focal liver disease in MR imaging	18	2009	2	2	175	182	10.1007/s12194-009-0062-5

Kawajiri, Suguru; Zhou, Xiangrong; Zhang, Xuejun; Hara, Takeshi; Fujita, Hiroshi; Yokoyama, Ryujiro; Kondo, Hiroshi; Kanematsu, Masayuki; Hoshi, Hiroaki	Automated segmentation of hepatic vessels in non-contrast X-ray CT images	18	2008	1	2	214	222	10.1007/s12194-008-0031-4
Hirata, Yuma; Fujibuchi, Toshiro; Fujita, Katsuya; Igarashi, Takayuki; Nishimaru, Eiji; Horita, Shogo; Sakurai, Reiko; Ono, Koji	Angular dependence of shielding effect of radiation protective eyewear for radiation protection of crystalline lens	17	2019	12	4	401	408	10.1007/s12194-019-00538-2
Takegami, Kazuki; Hayashi, Hiroaki; Yamada, Kenji; Mihara, Yoshiaki; Kimoto, Natsumi; Kanazawa, Yuki; Higashino, Kousaku; Yamashita, Kazuta; Hayashi, Fumio; Okazaki, Tohru; Hashizume, Takuya; Kobayashi, Ikuo	Entrance surface dose measurements using a small OSL dosimeter with a computed tomography scanner having 320 rows of detectors	17	2017	10	1	49	59	10.1007/s12194-016-0366-1
Tanaka, Nobukazu; Yano, Yuki; Yabuuchi, Hidetake; Akasaka, Tsutomu; Sasaki, Masayuki; Ohki, Masafumi; Morishita, Junji	Basic imaging properties of an indirect flat-panel detector system employing irradiation side sampling (ISS) technology for chest radiography: comparison with a computed radiographic system.	17	2013	6	1	162	9	10.1007/s12194-012-0184-z
Higuchi, Ko; Nagao, Michinobu; Matsuo, Yoshio; Sunami, Shunya; Kamitani, Takeshi; Jinnouchi, Mikako; Yonezawa, Masato; Yamasaki, Yuzo; Yabuuchi, Hidetake; Hatkenaka, Masamitsu; Honda, Hiroshi	Detection of ground-glass opacities by use of hybrid iterative reconstruction (iDose) and low-dose 256-section computed tomography: a phantom study	17	2013	6	2	299	304	10.1007/s12194-013-0200-y
Toge, Risa; Morishita, Junji; Sasaki, Yasuo; Doi, Kunio	Computerized image-searching method for finding correct patients for misfiled chest radiographs in a PACS server by use of biological fingerprints	17	2013	6	2	437	443	10.1007/s12194-013-0221-6
Aoki, Takako; Nitta, Naotaka; Furukawa, Akira	Non-invasive speed of sound measurement in cartilage by use of combined magnetic resonance imaging and ultrasound: an initial study	17	2013	6	2	480	485	10.1007/s12194-013-0223-4
Takahashi, Noriyuki; Lee, Yongbum; Tsai, Du-Yih; Kinoshita, Toshiyumi; Ouchi, Naoki; Ishii, Kiyoshi	Computer-aided detection scheme for identification of hypoattenuation of acute stroke in unenhanced CT	17	2012	5	1	98	104	10.1007/s12194-011-0143-0
Shimono, Tetsunori; Koshida, Kichiro; Nambu, Hidekazu; Matsubara, Kosuke; Takahashi, Hiroshi; Okuda, Hiroshi	Polarity effect in commercial ionization chambers used in photon beams with small fields	17	2009	2	1	97	103	10.1007/s12194-008-0050-1
Watanabe, Yohei; Fujii, Masazumi; Hayashi, Yuichiro; Kimura, Miyuki; Murai, Yasushi; Hata, Michiko; Sugiura, Akihiro; Tsuzaka, Masatoshi; Wakabayashi, Toshihiko	Evaluation of errors influencing accuracy in image-guided neurosurgery	17	2009	2	2	120	125	10.1007/s12194-009-0053-6
Fukuzawa, Kei; Hayashi, Tatsuya; Takahashi, Junji; Yoshihara, Chiharu; Tano, Masakatsu; Kotoku, Jun'ichi; Saitoh, Satoshi	Evaluation of six-point modified dixon and magnetic resonance spectroscopy for fat quantification: a fat-water-iron phantom study	16	2017	10	3	349	358	10.1007/s12194-017-0410-9
Onizuka, Ryota; Araki, Fujio; Ohno, Takeshi; Nakaguchi, Yuji; Kai, Yudai; Tomiyama, Yuuki; Hioki, Kazunari	Accuracy of dose calculation algorithms for virtual heterogeneous phantoms and intensity-modulated radiation therapy in the head and neck	16	2016	9	1	77	87	10.1007/s12194-015-0336-z
Huang, H. K.	Medical imaging, PACS, and imaging informatics: retrospective	16	2014	7	1	5	24	10.1007/s12194-013-0245-y
Oono, Takeshi; Araki, Fujio; Tsuduki, Shoya; Kawasaki, Keiichi	Monte Carlo calculation of patient organ doses from computed tomography.	16	2014	7	1	176	82	10.1007/s12194-013-0250-1
Ogura, Toshihiro; Sato, Mitsuru; Ishida, Yuki; Hayashi, Norio; Doi, Kunio	Development of a novel method for manipulation of angiographic images by use of a motion sensor in operating rooms	16	2014	7	2	228	234	10.1007/s12194-014-0259-0
Mori, Shinichiro; Kobayashi, Masanao; Kumagai, Motoki; Minohara, Shinichi	Development of a GPU-based multithreaded software application to calculate digitally reconstructed radiographs for radiotherapy	16	2009	2	1	40	45	10.1007/s12194-008-0040-3

Kameoka, S.; Amako, K.; Iwai, G.; Murakami, K.; Sasaki, T.; Toshito, T.; Yamashita, T.; Aso, T.; Kimura, A.; Kanai, T.; Kanematsu, N.; Komori, M.; Takei, Y.; Yonai, S.; Tashiro, M.; Koikegami, H.; Tomita, H.; Koi, T.	Dosimetric evaluation of nuclear interaction models in the Geant4 Monte Carlo simulation toolkit for carbon-ion radiotherapy	16	2008	1	2	183	187	10.1007/s12194-008-0026-1
Ieko, Yoshiro; Kadoya, Noriyuki; Kanai, Takayuki; Nakajima, Yujiro; Arai, Kazuhiro; Kato, Takahiro; Ito, Kengo; Miyasaka, Yuya; Takeda, Ken; Iwai, Takeo; Nemoto, Kenji; Jingu, Keiichi	The impact of 4DCT-ventilation imaging-guided proton therapy on stereotactic body radiotherapy for lung cancer	15	2020	13	3	230	237	10.1007/s12194-020-00572-5
Kanematsu, Nobuyuki; Matsufuji, Naruhiro; Inaniwa, Taku	Estimation of linear energy transfer distribution for broad-beam carbon-ion radiotherapy at the National Institute of Radiological Sciences, Japan	15	2018	11	2	242	247	10.1007/s12194-018-0444-7
Goto, Masami; Abe, Osamu; Miyati, Tosiaki; Inano, Sachiko; Hayashi, Naoto; Aoki, Shigeki; Mori, Harushi; Kunimatsu, Akira; Ino, Kenji; Iida, Kyouhito; Yano, Keiichi; Ohtomo, Kuni	Accelerated hippocampal volume reduction in post-menopausal women: an additional study with Atlas-based method	15	2011	4	2	185	188	10.1007/s12194-011-0120-7
Iida, Tadayuki; Chikamura, Chiho; Aoi, Satomi; Ikeda, Hiromi; Matsuda, Yuko; Oguri, Yoshito; Ono, Yuichiro; Katada, Kazuhiro; Ishizaki, Fumiko	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	15	2010	3	2	113	119	10.1007/s12194-010-0086-x
Yamaya, Taiga; Inaniwa, Taku; Mori, Shinichiro; Furukawa, Takuji; Minohara, Shinichi; Yoshida, Eiji; Nishikido, Fumihiko; Shibuya, Kengo; Inadama, Naoko; Murayama, Hideo	Imaging simulations of an "OpenPET" geometry with shifting detector rings Taiga Yamaya Taku Inaniwa Shinichiro	15	2009	2	1	62	69	10.1007/s12194-008-0046-x
Endo, Masahiro	History of medical physics	14	2021	14	4	345	357	10.1007/s12194-021-00642-2
Matsuo, Takao; Matsuyama, Miwa; Nakatani, Ken; Mori, Naoe	Evaluation of swallowing movement using ultrasonography	14	2020	13	1	62	68	10.1007/s12194-019-00547-1
Monzen, Hajime; Tamura, Mikoto; Ueda, Yoshihiro; Fukunaga, Jun-ichi; Kamima, Tatsuya; Muraki, Yuta; Kubo, Kazuki; Nakamatsu, Kiyoshi	Dosimetric evaluation with knowledge-based planning created at different periods in volumetric-modulated arc therapy for prostate cancer: a multi-institution study	14	2020	13	4	327	335	10.1007/s12194-020-00585-0
Ito, Hajime; Kobayashi, Ikuo; Watanabe, Kazutoshi; Ochi, Shigehiro; Yanagawa, Noriyuki	Evaluation of scattered radiation from fluoroscopy using small OSL dosimeters	14	2019	12	4	393	400	10.1007/s12194-019-00536-4
Falco, Maria D.; Masala, Salvatore; Stefanini, Matteo; Bagala, Paolo; Morosetti, Daniele; Calabria, Eros; Tonnetti, Alessia; Verona-Rinati, Gianluca	Effective-dose estimation in interventional radiological procedures	14	2018	11	2	149	155	10.1007/s12194-018-0446-5
Matsunaga, Yuta; Kawaguchi, Ai; Kobayashi, Masanao; Suzuki, Shigetaka; Suzuki, Shoichi; Chida, Koichi	Radiation doses for pregnant women in the late pregnancy undergoing fetal-computed tomography: a comparison of dosimetry and Monte Carlo simulations	14	2017	10	2	148	154	10.1007/s12194-016-0377-y
Tanaka, Nobukazu; Naka, Kentaro; Saito, Aya; Morishita, Junji; Toyofuku, Fukai; Ohki, Masafumi; Higashida, Yoshiharu	Investigation of optimum anti-scatter grid selection for digital radiography: physical imaging properties and detectability of low-contrast signals	14	2013	6	1	54	60	10.1007/s12194-012-0169-y
Murase, Kenya; Konishi, Takashi; Takeuchi, Yuki; Takata, Hiroshige; Saito, Shigeyoshi	Experimental and simulation studies on the behavior of signal harmonics in magnetic particle imaging	14	2013	6	2	399	414	10.1007/s12194-013-0213-6
Yoneyama, Masami; Nakamura, Masanobu; Tabuchi, Takashi; Takemura, Atsushi; Obara, Makoto; Tatsuno, Satoshi; Sawano, Seishi	Whole-brain black-blood imaging with magnetization-transfer prepared spin echo-like contrast: a novel sequence for contrast-enhanced brain metastasis screening at 3T	14	2013	6	2	431	436	10.1007/s12194-013-0216-3
Nakaguchi, Yuji; Araki, Fujio; Maruyama, Masato; Saiga, Shunji	Dose verification of IMRT by use of a COMPASS transmission detector	14	2012	5	1	63	70	10.1007/s12194-011-0137-y

Kamomae, Takeshi; Miyabe, Yuki; Sawada, Akira; Matoba, Osamu; Nakata, Manabu; Yano, Shinsuke; Takakura, Toru; Mizowaki, Takashi; Itoh, Akio; Hiraoka, Masahiro	Simulation for improvement of system sensitivity of radiochromic film dosimetry with different band-pass filters and scanner light intensities	14	2011	4	2	140	147	10.1007/s12194-011-0113-6
Nakamura, Tomoya; Miyati, Tosiaki; Kasai, Harumasa; Ohno, Naoki; Yamada, Masato; Mase, Mitsuhiro; Hara, Masaki; Shibamoto, Yuta; Suzuki, Yuriko; Ichikawa, Katsuhiko	Bulk motion-independent analyses of water diffusion changes in the brain during the cardiac cycle	14	2009	2	2	133	137	10.1007/s12194-009-0056-3
Tanaka, Rie; Sanada, Shigeru; Tsujioka, Katsumi; Matsui, Takeshi; Takata, Tadanori; Matsui, Osamu	Development of a cardiac evaluation method using a dynamic flat-panel detector (FPD) system: a feasibility study using a cardiac motion phantom	14	2008	1	1	27	32	10.1007/s12194-007-0003-0
Ote, Kibo; Hashimoto, Fumio	Deep-learning-based fast TOF-PET image reconstruction using direction information	13	2022	15	1	72	82	10.1007/s12194-022-00652-8
Mima, Yuichi; Nakayama, Ryohei; Hizukuri, Akiyoshi; Murata, Kan	Tooth detection for each tooth type by application of faster R-CNNs to divided analysis areas of dental panoramic X-ray images	13	2022	15	2	170	176	10.1007/s12194-022-00659-1
Morishita, Junji; Ueda, Yasuyuki	New solutions for automated image recognition and identification: challenges to radiologic technology and forensic pathology	13	2021	14	2	123	133	10.1007/s12194-021-00611-9
Kadoya, Noriyuki; Abe, Kota; Nemoto, Hikaru; Sato, Kiyokazu; Ieko, Yoshiro; Ito, Kengo; Dobashi, Suguru; Takeda, Ken; Jingu, Keichi	Evaluation of a 3D-printed heterogeneous anthropomorphic head and neck phantom for patient-specific quality assurance in intensity-modulated radiation therapy	13	2019	12	3	351	356	10.1007/s12194-019-00527-5
Fujiwara, Yasuhiro; Muranaka, Yoshiyuki	Improvement in visualization of carotid artery uniformity using silent magnetic resonance angiography	13	2017	10	1	113	120	10.1007/s12194-016-0375-0
Krisanachinda, Anchali; Srimahachota, Suphot; Matsubara, Kosuke	The current status of eye lens dose measurement in interventional cardiology personnel in Thailand	13	2017	10	2	142	147	10.1007/s12194-017-0403-8
Wada, Tatsuhiro; Togao, Osamu; Tokunaga, Chiaki; Funatsu, Ryouhei; Kobayashi, Kouji; Nakamura, Yasuhiko	Effect of the saturation pulse duration on chemical exchange saturation transfer in amide proton transfer MR imaging: a phantom study	13	2016	9	1	15	21	10.1007/s12194-015-0326-1
Shiraishi, Junji; Fukuoka, Daisuke; Hara, Takeshi; Abe, Hiroyuki	Basic concepts and development of an all-purpose computer interface for ROC/FROC observer study	13	2013	6	1	35	41	10.1007/s12194-012-0166-1
Yoneyama, Masami; Nakamura, Masanobu; Tabuchi, Takashi; Takemura, Atsushi; Obara, Makoto	Optimization of 3D-variable refocusing flip angle RARE imaging for high-resolution volumetric black-blood angiography	13	2012	5	2	270	276	10.1007/s12194-012-0161-6
Matsuzaki, Yuka; Date, Hiroyuki; Sutherland, Kenneth Lee; Kiyonagi, Yoshiaki	Nuclear collision processes around the Bragg peak in proton therapy	13	2010	3	1	84	92	10.1007/s12194-009-0081-2
Endo, Masahiro	Robert R. Wilson (1914-2000): the first scientist to propose particle therapy-use of particle beam for cancer treatment	12	2018	11	1	1	6	10.1007/s12194-017-0428-z
Kojima, Shinya; Shinohara, Hiroyuki; Hashimoto, Takeyuki; Suzuki, Shigeru	Undersampling patterns in k-space for compressed sensing MRI using two-dimensional Cartesian sampling	12	2018	11	3	303	319	10.1007/s12194-018-0469-y
Takegami, Kazuki; Hayashi, Hiroaki; Okino, Hiroki; Kimoto, Natsumi; Maehata, Itsumi; Kanazawa, Yuki; Okazaki, Tohru; Hashizume, Takuya; Kobayashi, Ikuo	Energy dependence measurement of small-type optically stimulated luminescence (OSL) dosimeter by means of characteristic X-rays induced with general diagnostic X-ray equipment	12	2016	9	1	99	108	10.1007/s12194-015-0339-9
Nishikido, Fumihiko; Tachibana, Atsushi; Obata, Takayuki; Inadama, Naoko; Yoshida, Eiji; Suga, Mikio; Murayama, Hideo; Yamaya, Taiga	Development of 1.45-mm resolution four-layer DOI-PET detector for simultaneous measurement in 3T MRI	12	2015	8	1	111	119	10.1007/s12194-014-0298-6
Kawaguchi, Ai; Matsunaga, Yuta; Otsuka, Tomoko; Suzuki, Shoichi	Patient investigation of average glandular dose and incident air kerma for digital mammography	12	2014	7	1	102	108	10.1007/s12194-013-0239-9
Almasri, Hussein Y.; Kakinohana, Yasumasa; Yogi, Tadashi	Occupational radiation monitoring at a large medical center in Japan	12	2014	7	2	271	276	10.1007/s12194-014-0262-5
Kohno, Ryosuke; Hirano, Eriko; Nishio, Teiji; Miyagishi, Tomoko; Goka, Tomonori; Kawashima, Mitsuhiro; Ogino, Takashi	Dosimetric evaluation of a MOSFET detector for clinical application in photon therapy	12	2008	1	1	55	61	10.1007/s12194-007-0007-9

Ichikawa, Katsuhiro; Koderu, Yoshie; Nishimura, Aya; Hasegawa, Mikio; Kimura, Naohiro; Takemura, Akihiro; Matsubara, Kosuke	Analysis method of noise power spectrum for medical monochrome liquid crystal displays	12	2008	1	2	201	207	10.1007/s12194-008-0029-y
El Ghalbzouri, Tarik; El Bardouni, Tarek; El Bakkali, Jaafar; Satti, Hicham; Arectout, Assia; Berriban, Iman; Nouayti, A.; Yerrou, Randa	Photon-specific absorbed fraction estimates in stylized ORNL and voxelized ICRP adult male phantoms using a new developed Geant4-based code "DoseCalcs": a validation study	11	2022	15	4	323	339	10.1007/s12194-022-00672-4
Nakano, Hisashi; Tanabe, Satoshi; Yamada, Takumi; Utsunomiya, Satoru; Takizawa, Takeshi; Sakai, Madoka; Sasamoto, Ryuta; Sakai, Hironori; Nakano, Toshimichi; Saito, Hirotake; Ohta, Atsushi; Kaidu, Motoki; Ishikawa, Hiroyuki	Maximum distance in single-isocenter technique of stereotactic radiosurgery with rotational error using margin-based analysis	11	2021	14	1	57	63	10.1007/s12194-020-00602-2
Karim, M. K. A.; Sabarudin, A.; Muhammad, N. A.; Ng, K. H.	A comparative study of radiation doses between phantom and patients via CT angiography of the intra-/extra-cranial, pulmonary, and abdominal/pelvic arteries	11	2019	12	4	374	381	10.1007/s12194-019-00532-8
Krishnappan, Chockkalingam; Radha, Chandrasekaran Anu; Balaji, Karunakaran; Mani, Prasanna Kumar; Subramani, Vendhan; Thanigaimalai, Velmurugan; Gunasekaran, Madhan Kumar; Ramasubramanian, Velayudham	Evaluation of beam matching accuracy among six linacs from the same vendor	11	2018	11	4	423	433	10.1007/s12194-018-0480-3
Ogura, Akio; Kamakura, Aoi; Kaneko, Youhei; Kitaoka, Tomoya; Hayashi, Norio; Taniguchi, Anna	Comparison of grayscale and color-scale renderings of digital medical images for diagnostic interpretation	11	2017	10	3	359	363	10.1007/s12194-017-0393-6
Yusof, Mohd Fahmi Mohd; Hamid, Puteri Nor Khatijah Abd; Tajuddin, Abd Aziz; Hashim, Rokiah; Bauk, Sabar; Isa, Norriza Mohd; Isa, Muhammad Jamal Md	Mass attenuation coefficient of tannin-added <i>Rhizophora</i> spp. particleboards at 16.59-25.56 keV photons, and $\frac{1}{\rho} \mu_{\text{en}}$ for ^{137}Cs and ^{60}Co gamma energies	11	2017	10	3	331	339	10.1007/s12194-017-0408-3
Seki, Ryoichi; Wakisaka, Yushi; Morimoto, Nami; Takashina, Masaaki; Koizumi, Masahiko; Toki, Hiroshi; Fukuda, Mitsuhiro	Physics of epi-thermal boron neutron capture therapy (epi-thermal BNCT)	11	2017	10	4	387	408	10.1007/s12194-017-0430-5
Iwata, Kunihiro; Ogasawara, Katsuhiko	Comparison of the cost-effectiveness of stress myocardial perfusion MRI and SPECT in patients with suspected coronary artery disease	11	2013	6	1	28	34	10.1007/s12194-012-0165-2
Yoshida, Eiji; Tashima, Hideaki; Inadama, Naoko; Nishikido, Fumihiko; Moriya, Takahiro; Omura, Tomohide; Watanabe, Mitsuo; Murayama, Hideo; Yamaya, Taiga	Intrinsic spatial resolution evaluation of the X'tal cube PET detector based on a 3D crystal block segmented by laser processing	11	2013	6	1	21	27	10.1007/s12194-012-0167-0
Kuwazuru, Jumpei; Arimura, Hidetaka; Kakeda, Shingo; Yamamoto, Daisuke; Magome, Taiki; Yamashita, Yasuo; Ohki, Masafumi; Toyofuku, Fukai; Korogi, Yukunori	Automated detection of multiple sclerosis candidate regions in MR images: false-positive removal with use of an ANN-controlled level-set method	11	2012	5	1	105	113	10.1007/s12194-011-0141-2
Tanaka, Rie; Sanada, Shigeru; Fujimura, Masaki; Yasui, Masahide; Hayashi, Norio; Tsuji, Shiro; Okamoto, Hiroyuki; Nanbu, Yuko; Matsui, Osamu	Development of pulmonary blood flow evaluation method with a dynamic flat-panel detector: quantitative correlation analysis with findings on perfusion scan	11	2010	3	1	40	45	10.1007/s12194-009-0074-1
Yamamoto, Akihito; Sato, Hiroshi; Enmi, Jun-ichi; Ishida, Kenji; Ose, Takayuki; Kimura, Atsuo; Fujiwara, Hideaki; Watabe, Hiroshi; Hayashi, Takuya; Iida, Hidehiro	Use of a clinical MRI scanner for preclinical research on rats	11	2009	2	1	13	21	10.1007/s12194-008-0038-x
Fujibuchi, Toshih; Yamaguchi, Ichiro; Kasahara, Tetsuharu; Iimori, Takashi; Masuda, Yoshitada; Kimura, Ken-ichi; Watanabe, Hiroshi; Isobe, Tomonori; Sakae, Takeji	Measurement of thermal neutron fluence distribution with use of $\frac{1}{\rho} \mu_{\text{en}}$ for ^{23}Na radioactivation around a medical compact cyclotron	11	2009	2	2	159	165	10.1007/s12194-009-0060-7

Tanaka, Rie; Sanada, Shigeru; Fujimura, Masaki; Yasui, Masahide; Nakayama, Kazuya; Matsui, Takeshi; Hayashi, Norio; Matsui, Osamu	Development of functional chest imaging with a dynamic flat-panel detector (FPD)	11	2008	1	2	137	143	10.1007/s12194-008-0020-7
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