

Author Full Names	Article Title	Times Cited, WoS Core	Publication Year	Volume	Issue	Start Page	End Page	DOI
Suzuki, Kenji	Overview of deep learning in medical imaging	264	2017	10	3	257	273	10.1007/s12194-017-0406-5
Metz, Charles E.	ROC analysis in medical imaging: a tutorial review of the literature	91	2008	1	1	2	12	10.1007/s12194-007-0002-1
van Ginneken, Bram	Fifty years of computer analysis in chest imaging: rule-based, machine learning, deep learning	72	2017	10	1	23	32	10.1007/s12194-017-0394-5
Mori, Issei; Machida, Yoshio; Osanai, Makoto; Inuma, Kazuhiro	Photon starvation artifacts of X-ray CT: their true cause and a solution	62	2013	6	1	130	141	10.1007/s12194-012-0179-9
Taguchi, Katsuyuki	Energy-sensitive photon counting detector-based X-ray computed tomography	47	2017	10	1	8	22	10.1007/s12194-017-0390-9
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	38	2010	3	2	127	135	10.1007/s12194-010-0088-8
Tanaka, Rie	Dynamic chest radiography: flat-panel detector (FPD) based functional X-ray imaging	37	2016	9	2	139	153	10.1007/s12194-016-0361-6
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	36	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	33	2009	2	1	58	61	10.1007/s12194-008-0044-z
Tashiro, Mutsumi; Ishii, Takayoshi; Koya, Jun-Ichi; Okada, Ryosuke; Kurosawa, Yuji; Arai, Keisuke; Abe, Satoshi; Ohashi, Yoshiaki; Shimada, Hirofumi; Yusa, Ken; Kanai, Tatsuaki; Yamada, Satoru; Kawamura, Hidemasa; Ebara, Takeshi; Ohno, Tatsuya; Nakano, Takashi	Technical approach to individualized respiratory-gated carbon-ion therapy for mobile organs	33	2013	6	2	356	366	10.1007/s12194-013-0208-3
Chen, George T. Y.; Sharp, Gregory C.; Mori, Shinichiro	A review of image-guided radiotherapy	30	2009	2	1	1	12	10.1007/s12194-008-0045-y

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	29	2008	1	1	44	54	10.1007/s12194-007-0008-8
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	29	2011	4	2	148	155	10.1007/s12194-011-0115-4
Mori, Hiroshige; Koshida, Kichiro; Ishigamori, Osamu; Matsubara, Kosuke	Evaluation of the effectiveness of X-ray protective aprons in experimental and practical fields	28	2014	7	1	158	166	10.1007/s12194-013-0246-x
Takahashi, Noriyuki; Lee, Yongbum; Tsai, Du-Yih; Matsuyama, Eri; Kinoshita, Toshiyumi; Ishii, Kiyoshi	An automated detection method for the MCA dot sign of acute stroke in unenhanced CT	28	2014	7	1	79	88	10.1007/s12194-013-0234-1
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	28	2018	11	1	27	35	10.1007/s12194-017-0433-2
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
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	27	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	26	2009	2	1	22	32	10.1007/s12194-008-0039-9
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.	24	2014	7	2	358	66	10.1007/s12194-014-0273-2

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	24	2019	12	3	235	248	10.1007/s12194-019-00520-y
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	21	2013	6	2	343	348	10.1007/s12194-013-0206-5
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	20	2015	8	1	53	59	10.1007/s12194-014-0286-x
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	19	2008	1	1	62	74	10.1007/s12194-007-0009-7
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	19	2010	3	2	151	158	10.1007/s12194-010-0090-1
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	19	2012	5	1	5	14	10.1007/s12194-011-0127-0
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	19	2015	8	2	286	294	10.1007/s12194-015-0318-1
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	18	2011	4	1	43	52	10.1007/s12194-010-0105-y

Mori, Shinichiro; Zenklusen, Silvan; Knopf, Antje-Christin	Current status and future prospects of multi-dimensional image-guided particle therapy	18	2013	6	2	249	272	10.1007/s12194-013-0199-0
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	18	2013	6	1	142	150	10.1007/s12194-012-0191-0
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	18	2013	6	1	42	53	10.1007/s12194-012-0168-z
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	18	2014	7	2	290	295	10.1007/s12194-014-0264-3
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	18	2014	7	1	57	66	10.1007/s12194-013-0231-4
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	17	2019	12	1	46	54	10.1007/s12194-018-0490-1
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	16	2009	2	1	97	103	10.1007/s12194-008-0050-1
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	16	2012	5	1	92	97	10.1007/s12194-011-0142-1
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	16	2013	6	2	327	334	10.1007/s12194-013-0204-7

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)	16	2016	9	1	60	68	10.1007/s12194-015-0334-1
Terunuma, Toshiyuki; Tokui, Aoi; Sakae, Takeji	Novel real-time tumor-contouring method using deep learning to prevent mistracking in X-ray fluoroscopy	16	2018	11	1	43	53	10.1007/s12194-017-0435-0
Malekzadeh, Reza; Mehnati, 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	16	2019	12	3	325	334	10.1007/s12194-019-00529-3
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	16	2019	12	2	210	215	10.1007/s12194-019-00512-y
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	15	2008	1	2	183	187	10.1007/s12194-008-0026-1
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
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
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	15	2011	4	2	189	193	10.1007/s12194-011-0121-6
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	15	2012	5	2	138	147	10.1007/s12194-012-0146-5

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	15	2013	6	2	299	304	10.1007/s12194-013-0200-y
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	15	2013	6	1	107	114	10.1007/s12194-012-0176-z
Oono, Takeshi; Araki, Fujio; Tsuduki, Shoya; Kawasaki, Keiichi	Monte Carlo calculation of patient organ doses from computed tomography.	15	2014	7	1	176	82	10.1007/s12194-013-0250-1
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?	15	2015	8	1	60	63	10.1007/s12194-014-0288-8
Hayashi, Shin-ichiro; Kawamura, Hiraku; Usui, Shuji; Tominaga, Takahiro	Influence of magnesium chloride on the dose-response of polyacrylamide-type gel dosimeters	15	2018	11	4	375	381	10.1007/s12194-018-0473-2
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	14	2008	1	2	214	222	10.1007/s12194-008-0031-4
Mori, Shinichiro; Kobayashi, Masanao; Kumagai, Motoki; Minohara, Shinichi	Development of a GPU-based multithreaded software application to calculate digitally reconstructed radiographs for radiotherapy	14	2009	2	1	40	45	10.1007/s12194-008-0040-3
Mitsui, Takashi; Fujii, Masazumi; Tsuzaka, Masatoshi; Hayashi, Yuichiro; Asahina, Yoshinori; Wakabayashi, Toshihiko	Skin shift and its effect on navigation accuracy in image-guided neurosurgery	14	2011	4	1	37	42	10.1007/s12194-010-0103-0
Mehnati, 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	14	2019	12	1	6	25	10.1007/s12194-019-00500-2
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	13	2009	2	2	175	182	10.1007/s12194-009-0062-5

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	13	2012	5	1	34	39	10.1007/s12194-011-0132-3
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.	13	2013	6	1	162	9	10.1007/s12194-012-0184-z
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	13	2017	10	3	349	358	10.1007/s12194-017-0410-9
Ichikawa, Katsuhiro; Kodera, 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
Nakamura, Tomoya; Miyati, Tosiaki; Kasai, Harumasa; Ohno, Naoki; Yamada, Masato; Mase, Mitsuhito; Hara, Masaki; Shibamoto, Yuta; Suzuki, Yuriko; Ichikawa, Katsuhiro	Bulk motion-independent analyses of water diffusion changes in the brain during the cardiac cycle	12	2009	2	2	133	137	10.1007/s12194-009-0056-3
Takahashi, Noriyuki; Lee, Yongbum; Tsai, Du-Yih; Kinoshita, Toshibumi; Ouchi, Naoki; Ishii, Kiyoshi	Computer-aided detection scheme for identification of hypoattenuation of acute stroke in unenhanced CT	12	2012	5	1	98	104	10.1007/s12194-011-0143-0
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	12	2012	5	1	46	52	10.1007/s12194-011-0134-1
Murase, Kenya; Konishi, Takashi; Takeuchi, Yuki; Takata, Hiroshige; Saito, Shigeyoshi	Experimental and simulation studies on the behavior of signal harmonics in magnetic particle imaging	12	2013	6	2	399	414	10.1007/s12194-013-0213-6
Kajikawa, Tomohiro; Kadoya, Noriyuki; Ito, Kengo; Takayama, Yoshiki; 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	12	2018	11	3	320	327	10.1007/s12194-018-0472-3

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	12	2019	12	1	26	29	10.1007/s12194-018-0487-9
Kohno, Ryosuke; Hirano, Eriko; Nishio, Teiji; Miyagishi, Tomoko; Goka, Tomonori; Kawashima, Mitsuhiko; Ogino, Takashi	Dosimetric evaluation of a MOSFET detector for clinical application in photon therapy	11	2008	1	1	55	61	10.1007/s12194-007-0007-9
Nakaguchi, Yuji; Araki, Fujio; Maruyama, Masato; Saiga, Shunji	Dose verification of IMRT by use of a COMPASS transmission detector	11	2012	5	1	63	70	10.1007/s12194-011-0137-y
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
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	11	2016	9	1	77	87	10.1007/s12194-015-0336-z
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	11	2018	11	4	445	450	10.1007/s12194-018-0484-z

Data source: [引用文献検索, Web of Science](#), as of 18 March 2022