

Peter B NoÃ«l

List of Publications by Year in descending order

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163
papers

4,131
citations

147566

31
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161609

54
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177
all docs

177
docs citations

177
times ranked

4371
citing authors

#	ARTICLE	IF	CITATIONS
1	Hepatic dual-contrast CT imaging: slow triple kVp switching CT with CNN-based sinogram completion and material decomposition. <i>Journal of Medical Imaging</i> , 2022, 9, 014003.	0.8	1
2	Radiomic Phenotypes for Improving Early Prediction of Survival in Stage III Non-Small Cell Lung Cancer Adenocarcinoma after Chemoradiation. <i>Cancers</i> , 2022, 14, 700.	1.7	7
3	Generalized ComBat harmonization methods for radiomic features with multi-modal distributions and multiple batch effects. <i>Scientific Reports</i> , 2022, 12, 4493.	1.6	25
4	PixelPrint: three-dimensional printing of realistic patient-specific lung phantoms for CT imaging. , 2022, , .		7
5	Three-dimensional printing of patient-specific lung phantoms for CT imaging: Emulating lung tissue with accurate attenuation profiles and textures. <i>Medical Physics</i> , 2022, 49, 825-835.	1.6	25
6	First-generation clinical dual-source photon-counting CT: ultra-low-dose quantitative spectral imaging. <i>European Radiology</i> , 2022, 32, 8579-8587.	2.3	20
7	Quantitative positron emission tomography imaging in the presence of iodinated contrast media using electron density quantifications from dual-energy computed tomography. <i>Medical Physics</i> , 2021, 48, 273-286.	1.6	3
8	Opportunistic osteoporosis screening: contrast-enhanced dual-layer spectral CT provides accurate measurements of vertebral bone mineral density. <i>European Radiology</i> , 2021, 31, 3147-3155.	2.3	15
9	MRI-derived porosity index is associated with whole-bone stiffness and mineral density in human cadaveric femora. <i>Bone</i> , 2021, 143, 115774.	1.4	16
10	Spectral photon-counting CT in cardiovascular imaging. <i>Journal of Cardiovascular Computed Tomography</i> , 2021, 15, 218-225.	0.7	65
11	Low-dose MDCT: evaluation of the impact of systematic tube current reduction and sparse sampling on the detection of degenerative spine diseases. <i>European Radiology</i> , 2021, 31, 2590-2600.	2.3	6
12	Quantitative imaging of the spine in adolescent idiopathic scoliosis: shifting the paradigm from diagnostic to comprehensive prognostic evaluation. <i>European Journal of Orthopaedic Surgery and Traumatology</i> , 2021, 31, 1273-1285.	0.6	2
13	Spectral CT quantification stability and accuracy for pediatric patients: A phantom study. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 16-26.	0.8	6
14	Low-Dose Dual KVP Switching Using A Static Coded Aperture. , 2021, , .		1
15	Low-Dose MDCT of Patients With Spinal Instrumentation Using Sparse Sampling: Impact on Metal Artifacts. <i>American Journal of Roentgenology</i> , 2021, 216, 1308-1317.	1.0	5
16	Combining radiomic phenotypes of non-small cell lung cancer with liquid biopsy data may improve prediction of response to EGFR inhibitors. <i>Scientific Reports</i> , 2021, 11, 9984.	1.6	13
17	Spectral CT using a fine grid structure and varying x-ray incidence angle. <i>Medical Physics</i> , 2021, 48, 6412-6420.	1.6	2
18	Low-dose MDCT: evaluation of the impact of systematic tube current reduction and sparse sampling on quantitative paraspinal muscle assessment. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 3042-3050.	1.1	0

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19	Quantitative analysis of speckle-based X-ray dark-field imaging using numerical wave-optics simulations. <i>Scientific Reports</i> , 2021, 11, 16113.	1.6	3
20	Dosimetry on first clinical dark-field chest radiography. <i>Medical Physics</i> , 2021, 48, 6152-6159.	1.6	9
21	Sparse-sampling computed tomography for detection of endoleak after endovascular aortic repair (EVAR). <i>European Journal of Radiology</i> , 2021, 142, 109843.	1.2	2
22	In-vivo X-ray dark-field computed tomography for the detection of radiation-induced lung damage in mice. <i>Physics and Imaging in Radiation Oncology</i> , 2021, 20, 11-16.	1.2	10
23	Potential of dual-layer spectral CT for the differentiation between hemorrhage and iodinated contrast medium in the brain after endovascular treatment of ischemic stroke patients. <i>Clinical Imaging</i> , 2021, 79, 158-164.	0.8	6
24	Impact of dose reduction and iterative model reconstruction on multi-detector CT imaging of the brain in patients with suspected ischemic stroke. <i>Scientific Reports</i> , 2021, 11, 22271.	1.6	5
25	Systematic Evaluation of Low-dose MDCT for Planning Purposes of Lumbosacral Periradicular Infiltrations. <i>Clinical Neuroradiology</i> , 2020, 30, 749-759.	1.0	6
26	Technical background of a novel detector-based approach to dual-energy computed tomography. <i>Diagnostic and Interventional Radiology</i> , 2020, 26, 68-71.	0.7	54
27	Radioprotective Garment-Inspired Biodegradable Polymetal Nanoparticles for Enhanced CT Contrast Production. <i>Chemistry of Materials</i> , 2020, 32, 381-391.	3.2	20
28	Towards subject-level cerebral infarction classification of CT scans using convolutional networks. <i>PLoS ONE</i> , 2020, 15, e0235765.	1.1	2
29	Finite Element Analysis-Based Vertebral Bone Strength Prediction Using MDCT Data: How Low Can We Go?. <i>Frontiers in Endocrinology</i> , 2020, 11, 442.	1.5	7
30	CTPA with a conventional CT at 100 kVp vs. a spectral-detector CT at 120 kVp: Comparison of radiation exposure, diagnostic performance and image quality. <i>European Journal of Radiology Open</i> , 2020, 7, 100234.	0.7	10
31	Liver lesion localisation and classification with convolutional neural networks: a comparison between conventional and spectral computed tomography. <i>Biomedical Physics and Engineering Express</i> , 2020, 6, 015038.	0.6	15
32	Low-dose and sparse sampling MDCT-based femoral bone strength prediction using finite element analysis. <i>Archives of Osteoporosis</i> , 2020, 15, 17.	1.0	11
33	Grating-based phase-contrast CT (PCCT): histopathological correlation of human liver cirrhosis and hepatocellular carcinoma specimen. <i>Journal of Clinical Pathology</i> , 2020, 73, 483-487.	1.0	6
34	Assessment of femoral neck bone metabolism using 18F-sodium fluoride PET/CT imaging. <i>Bone</i> , 2020, 136, 115351.	1.4	9
35	Predicting Vertebral Bone Strength Using Finite Element Analysis for Opportunistic Osteoporosis Screening in Routine Multidetector Computed Tomography Scans: A Feasibility Study. <i>Frontiers in Endocrinology</i> , 2020, 11, 526332.	1.5	11
36	Nanoparticle contrast agents for X-ray imaging applications. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2020, 12, e1642.	3.3	69

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37	Spectral-detector based x-ray absorptiometry (SDXA): in-vivo bone mineral density measurements in patients with and without osteoporotic fractures. Biomedical Physics and Engineering Express, 2020, 6, 055021.	0.6	4
38	Combining spectral CT acquisition methods for high-sensitivity material decomposition. , 2020, 11312, .		3
39	Grating-based Spectral CT using Small Angle X-ray Beam Deflections. , 2020, 2020, 630-633.		1
40	Evaluation of MR-derived CT-like images and simulated radiographs compared to conventional radiography in patients with benign and malignant bone tumors. European Radiology, 2019, 29, 13-21.	2.3	32
41	CT pulmonary angiography: dose reduction via a next generation iterative reconstruction algorithm. Acta Radiologica, 2019, 60, 478-487.	0.5	19
42	MDCT-based Finite Element Analysis of Vertebral Fracture Risk: What Dose is Needed?. Clinical Neuroradiology, 2019, 29, 645-651.	1.0	11
43	Quantitative dual-energy micro-CT with a photon-counting detector for material science and non-destructive testing. PLoS ONE, 2019, 14, e0219659.	1.1	15
44	Imaging features in post-mortem x-ray dark-field chest radiographs and correlation with conventional x-ray and CT. European Radiology Experimental, 2019, 3, 25.	1.7	21
45	Spectral Photon-Counting Computed Tomography (SPCCT): in-vivo single-acquisition multi-phase liver imaging with a dual contrast agent protocol. Scientific Reports, 2019, 9, 8458.	1.6	56
46	Bone mineral density measurements derived from dual-layer spectral CT enable opportunistic screening for osteoporosis. European Radiology, 2019, 29, 6355-6363.	2.3	46
47	Sparse sampling computed tomography (SpSCT) for detection of pulmonary embolism: a feasibility study. European Radiology, 2019, 29, 5950-5960.	2.3	2
48	Tube Current Reduction in CT Angiography: How Low Can We Go in Imaging of Patients With Suspected Acute Stroke?. American Journal of Roentgenology, 2019, 213, 410-416.	1.0	4
49	Multi-detector CT imaging: impact of virtual tube current reduction and sparse sampling on detection of vertebral fractures. European Radiology, 2019, 29, 3606-3616.	2.3	21
50	Liquid Embolic Agents in Spectral X-Ray Photon-Counting Computed Tomography using Tantalum K-Edge Imaging. Scientific Reports, 2019, 9, 5268.	1.6	23
51	Perfusion-ventilation CT via three-material differentiation in dual-layer CT: a feasibility study. Scientific Reports, 2019, 9, 5837.	1.6	8
52	Metric-guided regularisation parameter selection for statistical iterative reconstruction in computed tomography. Scientific Reports, 2019, 9, 6016.	1.6	5
53	3D grating-based X-ray phase-contrast computed tomography for high-resolution quantitative assessment of cartilage: An experimental feasibility study with 3T MRI, 7T MRI and biomechanical correlation. PLoS ONE, 2019, 14, e0212106.	1.1	9
54	Differentiation between blood and iodine in a bovine brainâ€”Initial experience with Spectral Photon-Counting Computed Tomography (SPCCT). PLoS ONE, 2019, 14, e0212679.	1.1	26

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55	DXA-equivalent quantification of bone mineral density using dual-layer spectral CT scout scans. <i>European Radiology</i> , 2019, 29, 4624-4634.	2.3	18
56	Effect of Statistically Iterative Image Reconstruction on Vertebral Bone Strength Prediction Using Bone Mineral Density and Finite Element Modeling. <i>Journal of Computer Assisted Tomography</i> , 2019, 43, 61-65.	0.5	6
57	The evolution of image reconstruction for CT—from filtered back projection to artificial intelligence. <i>European Radiology</i> , 2019, 29, 2185-2195.	2.3	335
58	Sparse-sampling computed tomography for pulmonary imaging. , 2019, , .		0
59	Experimental feasibility of spectral photon-counting computed tomography with two contrast agents for the detection of endoleaks following endovascular aortic repair. <i>European Radiology</i> , 2018, 28, 3318-3325.	2.3	79
60	Multidetector Computed Tomography Imaging. <i>Journal of Computer Assisted Tomography</i> , 2018, 42, 441-447.	0.5	24
61	Dose reduction in abdominal CT: The road to submillisievert imaging. <i>European Radiology</i> , 2018, 28, 2743-2744.	2.3	7
62	Depiction of pneumothoraces in a large animal model using x-ray dark-field radiography. <i>Scientific Reports</i> , 2018, 8, 2602.	1.6	31
63	Dual-energy CT: a phantom comparison of different platforms for abdominal imaging. <i>European Radiology</i> , 2018, 28, 2745-2755.	2.3	114
64	Assessment of quantification accuracy and image quality of a full-body dual-layer spectral CT system. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 204-217.	0.8	65
65	Evaluation of an iterative model-based CT reconstruction algorithm by intra-patient comparison of standard and ultra-low-dose examinations. <i>Acta Radiologica</i> , 2018, 59, 1225-1231.	0.5	16
66	Tilted grating phase-contrast computed tomography using statistical iterative reconstruction. <i>Scientific Reports</i> , 2018, 8, 6608.	1.6	4
67	Nonlinear statistical iterative reconstruction for propagation-based phase-contrast tomography. <i>APL Bioengineering</i> , 2018, 2, 016105.	3.3	12
68	Accuracy of iodine quantification in dual-layer spectral CT: Influence of iterative reconstruction, patient habitus and tube parameters. <i>European Journal of Radiology</i> , 2018, 102, 83-88.	1.2	53
69	Effect of radiation dose reduction on texture measures of trabecular bone microstructure: an in vitro study. <i>Journal of Bone and Mineral Metabolism</i> , 2018, 36, 323-335.	1.3	9
70	Joint Statistical Iterative Material Image Reconstruction for Spectral Computed Tomography Using a Semi-Empirical Forward Model. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 68-80.	5.4	63
71	Dual-layer spectral computed tomography: measuring relative electron density. <i>European Radiology Experimental</i> , 2018, 2, 20.	1.7	21
72	Evaluation of a preclinical photon-counting CT prototype for pulmonary imaging. <i>Scientific Reports</i> , 2018, 8, 17386.	1.6	53

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73	Direct quantitative material decomposition employing grating-based X-ray phase-contrast CT. Scientific Reports, 2018, 8, 16394.	1.6	30
74	Accuracy of Calcium Scoring calculated from contrast-enhanced Coronary Computed Tomography Angiography using a dual-layer spectral CT: A comparison of Calcium Scoring from real and virtual non-contrast data. PLoS ONE, 2018, 13, e0208588.	1.1	28
75	X-ray dark-field imaging of the human lungâ€™ A feasibility study on a deceased body. PLoS ONE, 2018, 13, e0204565.	1.1	76
76	Spectral Angiography Material Decomposition Using an Empirical Forward Model and a Dictionary-Based Regularization. IEEE Transactions on Medical Imaging, 2018, 37, 2298-2309.	5.4	16
77	Dual-layer spectral computed tomography: Virtual non-contrast in comparison to true non-contrast images. European Journal of Radiology, 2018, 104, 108-114.	1.2	83
78	Improved detection rates and treatment planning of head and neck cancer using dual-layer spectral CT. European Radiology, 2018, 28, 4925-4931.	2.3	18
79	Acute infarction after mechanical thrombectomy is better delineable in virtual non-contrast compared to conventional images using a dual-layer spectral CT. Scientific Reports, 2018, 8, 9329.	1.6	16
80	Analysis and correction of bias induced by phase stepping jitter in grating-based X-ray phase-contrast imaging. Optics Express, 2018, 26, 12707.	1.7	23
81	Simultaneous wood and metal particle detection on dark-field radiography. European Radiology Experimental, 2018, 2, 1.	1.7	35
82	<scp>CNN</scp> as model observer in a liver lesion detection task for xâ€™ray computed tomography: A phantom study. Medical Physics, 2018, 45, 4439-4447.	1.6	17
83	Spectral Computed Tomography Angiography With a Gadolinium-based Contrast Agent. Journal of Thoracic Imaging, 2018, 33, 246-253.	0.8	10
84	Three-material decomposition with dual-layer spectral CT compared to MRI for the detection of bone marrow edema in patients with acute vertebral fractures. Skeletal Radiology, 2018, 47, 1533-1540.	1.2	21
85	Dual layer computed tomography: Reduction of metal artefacts from posterior spinal fusion using virtual monoenergetic imaging. European Journal of Radiology, 2018, 105, 195-203.	1.2	18
86	Diagnostic value of sparse sampling computed tomography for radiation dose reduction: initial results. , 2018, , .		3
87	Evaluation of a machine learning based model observer for x-ray CT. , 2018, , .		1
88	Large field-of-view tiled grating structures for X-ray phase-contrast imaging. Review of Scientific Instruments, 2017, 88, 015104.	0.6	38
89	A post-processing algorithm for spectral CT material selective images using learned dictionaries. Biomedical Physics and Engineering Express, 2017, 3, 025009.	0.6	11
90	X-ray vector radiography of a human hand. , 2017, , .		2

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91	Spectral Photon-counting CT: Initial Experience with Dual-Contrast Agent K-Edge Colonography. <i>Radiology</i> , 2017, 283, 723-728.	3.6	111
92	Ex vivo characterization of pathologic fluids with quantitative phase-contrast computed tomography. <i>European Journal of Radiology</i> , 2017, 86, 99-104.	1.2	2
93	Grating-based phase-contrast and dark-field computed tomography: a single-shot method. <i>Scientific Reports</i> , 2017, 7, 7476.	1.6	30
94	Bone mineral density measurements in vertebral specimens and phantoms using dual-layer spectral computed tomography. <i>Scientific Reports</i> , 2017, 7, 17519.	1.6	32
95	Trabecular bone anisotropy imaging with a compact laser-undulator synchrotron x-ray source. <i>Scientific Reports</i> , 2017, 7, 14477.	1.6	26
96	Is multidetector CT-based bone mineral density and quantitative bone microstructure assessment at the spine still feasible using ultra-low tube current and sparse sampling?. <i>European Radiology</i> , 2017, 27, 5261-5271.	2.3	47
97	In-vivo X-ray Dark-Field Chest Radiography of a Pig. <i>Scientific Reports</i> , 2017, 7, 4807.	1.6	83
98	CT Angiography. <i>Academic Radiology</i> , 2017, 24, 131-136.	1.3	4
99	Optimizing radiation exposure for CT localizer radiographs. <i>Zeitschrift Fur Medizinische Physik</i> , 2017, 27, 145-158.	0.6	9
100	Advanced Non-Destructive Ocular Visualization Methods by Improved X-Ray Imaging Techniques. <i>PLoS ONE</i> , 2017, 12, e0170633.	1.1	8
101	Revising the lower statistical limit of x-ray grating-based phase-contrast computed tomography. <i>PLoS ONE</i> , 2017, 12, e0184217.	1.1	4
102	Simultaneous dual-contrast multi-phase liver imaging using spectral photon-counting computed tomography: a proof-of-concept study. <i>European Radiology Experimental</i> , 2017, 1, 25.	1.7	61
103	Low-Dose Simulation and Sparse Sampling with Statistical Iterative Reconstruction: Dose Reduction in MDCT-Based Bone Mineral Density and Microstructure Assessment. <i>Seminars in Musculoskeletal Radiology</i> , 2017, 21, S1-S5.	0.4	0
104	Effect of Low-Dose MDCT and Iterative Reconstruction on Trabecular Bone Microstructure Assessment. <i>PLoS ONE</i> , 2016, 11, e0159903.	1.1	8
105	X-ray deconvolution microscopy. <i>Biomedical Optics Express</i> , 2016, 7, 1227.	1.5	10
106	Effects of dose reduction on bone strength prediction using finite element analysis. <i>Scientific Reports</i> , 2016, 6, 38441.	1.6	20
107	Dictionary-based image denoising for dual energy computed tomography. <i>Proceedings of SPIE</i> , 2016, , .	0.8	6
108	Effect of low-dose CT and iterative reconstruction on trabecular bone microstructure assessment. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0

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109	Object Specific Trajectory Optimization for Industrial X-ray Computed Tomography. Scientific Reports, 2016, 6, 19135.	1.6	32
110	EVALUATION OF DOSE REDUCTION POTENTIALS OF A NOVEL SCATTER CORRECTION SOFTWARE FOR BEDSIDE CHEST X-RAY IMAGING. Radiation Protection Dosimetry, 2016, 169, 60-67.	0.4	24
111	Quantitative Three-Dimensional Imaging of Lipid, Protein, and Water Contents via X-Ray Phase-Contrast Tomography. PLoS ONE, 2016, 11, e0151889.	1.1	17
112	Ultra Low Dose CT Pulmonary Angiography with Iterative Reconstruction. PLoS ONE, 2016, 11, e0162716.	1.1	42
113	Non-invasive Differentiation of Kidney Stone Types using X-ray Dark-Field Radiography. Scientific Reports, 2015, 5, 9527.	1.6	37
114	Penalized maximum likelihood reconstruction for x-ray differential phase-contrast tomography. Medical Physics, 2015, 43, 188-194.	1.6	28
115	X-ray Dark-Field Vector Radiographyâ€”A Novel Technique for Osteoporosis Imaging. Journal of Computer Assisted Tomography, 2015, 39, 286-289.	0.5	13
116	Imaging of Hsp70-positive tumors with cmHsp70.1 antibody-conjugated gold nanoparticles. International Journal of Nanomedicine, 2015, 10, 5687.	3.3	22
117	In-Vivo Assessment of Femoral Bone Strength Using Finite Element Analysis (FEA) Based on Routine MDCT Imaging: A Preliminary Study on Patients with Vertebral Fractures. PLoS ONE, 2015, 10, e0116907.	1.1	31
118	Reduction of Metal Artifact in Single Photon-Counting Computed Tomography by Spectral-Driven Iterative Reconstruction Technique. PLoS ONE, 2015, 10, e0124831.	1.1	33
119	Phase-Contrast Hounsfield Units of Fixated and Non-Fixated Soft-Tissue Samples. PLoS ONE, 2015, 10, e0137016.	1.1	25
120	Prediction of Vertebral Failure Load by Using X-Ray Vector Radiographic Imaging. Radiology, 2015, 275, 553-561.	3.6	10
121	A comparison of material decomposition techniques for dual-energy CT colonography. Proceedings of SPIE, 2015, 9412, .	0.8	7
122	A Monte Carlo software bench for simulation of spectral k-edge CT imaging: Initial results. Physica Medica, 2015, 31, 398-405.	0.4	7
123	Region of interest processing for iterative reconstruction in x-ray computed tomography. , 2015, , .		1
124	Statistical iterative reconstruction algorithm for X-ray phase-contrast CT. Scientific Reports, 2015, 5, 10452.	1.6	43
125	Quantitative imaging using high-energy X-ray phase-contrast CT with a 70 kVp polychromatic X-ray spectrum. Optics Express, 2015, 23, 523.	1.7	35
126	Combined inhibition of BET family proteins and histone deacetylases as a potential epigenetics-based therapy for pancreatic ductal adenocarcinoma. Nature Medicine, 2015, 21, 1163-1171.	15.2	349

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127	X-ray computed tomography using curvelet sparse regularization. <i>Medical Physics</i> , 2015, 42, 1555-1565.	1.6	13
128	Validation of a Low Dose Simulation Technique for Computed Tomography Images. <i>PLoS ONE</i> , 2014, 9, e107843.	1.1	25
129	Imaging Liver Lesions Using Grating-Based Phase-Contrast Computed Tomography with Bi-Lateral Filter Post-Processing. <i>PLoS ONE</i> , 2014, 9, e83369.	1.1	31
130	A versatile tomographic forward- and back-projection approach on multi-GPUs. , 2014, , .		12
131	Evaluation of an iterative model-based reconstruction algorithm for low-tube-voltage (80kVp) computed tomography angiography. <i>Journal of Medical Imaging</i> , 2014, 1, 033501.	0.8	17
132	Regularized iterative integration combined with non-linear diffusion filtering for phase-contrast x-ray computed tomography. <i>Optics Express</i> , 2014, 22, 32107.	1.7	5
133	Simulated Cystic Renal Lesions: Quantitative X-ray Phase-Contrast CT An in Vitro Phantom Study. <i>Radiology</i> , 2014, 272, 739-748.	3.6	15
134	Hunting for necrosis in the shadows of intravascular ultrasound. <i>Computerized Medical Imaging and Graphics</i> , 2014, 38, 104-112.	3.5	11
135	Automatic detection of osteoporotic vertebral fractures in routine thoracic and abdominal MDCT. <i>European Radiology</i> , 2014, 24, 872-880.	2.3	31
136	Evaluation of a method for improving the detection of hepatocellular carcinoma. <i>European Radiology</i> , 2014, 24, 250-255.	2.3	4
137	Synovitis in Patients with Early Inflammatory Arthritis Monitored with Quantitative Analysis of Dynamic Contrast-enhanced Optical Imaging and MR Imaging. <i>Radiology</i> , 2014, 270, 176-185.	3.6	45
138	Rapid dynamic radial MRI via reference image enforced histogram constrained reconstruction. <i>Journal of Magnetic Resonance</i> , 2014, 240, 1-7.	1.2	0
139	Joint learning of ultrasonic backscattering statistical physics and signal confidence primal for characterizing atherosclerotic plaques using intravascular ultrasound. <i>Medical Image Analysis</i> , 2014, 18, 103-117.	7.0	18
140	Dynamic CT perfusion imaging of the myocardium using a wide-detector scanner: a semiquantitative analysis in an animal model. <i>Clinical Imaging</i> , 2014, 38, 675-680.	0.8	4
141	Correlation of X-Ray Vector Radiography to Bone Micro-Architecture. <i>Scientific Reports</i> , 2014, 4, 3695.	1.6	29
142	A method for improving iodine contrast enhancement in abdominal computed tomography: experimental study in a pig model. <i>European Radiology</i> , 2013, 23, 985-990.	2.3	2
143	Wound ballistic evaluation of the TASER® XREP ammunition. <i>International Journal of Legal Medicine</i> , 2013, 127, 119-126.	1.2	8
144	Evaluation of the potential of phase-contrast computed tomography for improved visualization of cancerous human liver tissue. <i>Zeitschrift Fur Medizinische Physik</i> , 2013, 23, 204-211.	0.6	13

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145	Cardioprotective C-kit+ Bone Marrow Cells Attenuate Apoptosis after Acute Myocardial Infarction in Mice - In-vivo Assessment with Fluorescence Molecular Imaging. <i>Theranostics</i> , 2013, 3, 903-913.	4.6	21
146	Coherent Superposition in Grating-Based Directional Dark-Field Imaging. <i>PLoS ONE</i> , 2013, 8, e61268.	1.1	24
147	Dynamic CT Perfusion Imaging of the Myocardium: A Technical Note on Improvement of Image Quality. <i>PLoS ONE</i> , 2013, 8, e75263.	1.1	18
148	Does Iterative Reconstruction Lower CT Radiation Dose: Evaluation of 15,000 Examinations. <i>PLoS ONE</i> , 2013, 8, e81141.	1.1	63
149	Coronary CT angiography in step-and-shoot technique with 256-slice CT: Impact of the field of view on image quality, craniocaudal coverage, and radiation exposure. <i>European Journal of Radiology</i> , 2012, 81, 1562-1568.	1.2	14
150	Detection of synovitis in the hands of patients with rheumatologic disorders: Diagnostic performance of optical imaging in comparison with magnetic resonance imaging. <i>Arthritis and Rheumatism</i> , 2012, 64, 2489-2498.	6.7	44
151	Initial Performance Characterization of a Clinical Noise-Reducing Reconstruction Algorithm for MDCT. <i>American Journal of Roentgenology</i> , 2011, 197, 1404-1409.	1.0	138
152	Preliminary clinical results: an analyzing tool for 2D optical imaging in detection of active inflammation in rheumatoid arthritis. <i>Proceedings of SPIE</i> , 2011, , .	0.8	3
153	GPU-based cone beam computed tomography. <i>Computer Methods and Programs in Biomedicine</i> , 2010, 98, 271-277.	2.6	63
154	Filtered region of interest cone-beam rotational angiography. <i>Medical Physics</i> , 2010, 37, 694-703.	1.6	21
155	Clinical evaluation of angiographic multiple-view 3D reconstruction. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2009, 4, 497-508.	1.7	0
156	Real-time endovascular guidewire position simulation using shortest path algorithms. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2009, 4, 597-608.	1.7	13
157	Toward region of interest computer tomography. , 2009, , .		2
158	Evaluation of guidewire path reproducibility. <i>Medical Physics</i> , 2008, 35, 1884-1892.	1.6	20
159	Planning image-guided endovascular interventions: guidewire simulation using shortest path algorithms. , 2007, , .		15
160	Optimization of three-dimensional angiographic data obtained by self-calibration of multiview imaging. <i>Medical Physics</i> , 2006, 33, 3901-3911.	1.6	6
161	Generating of 3D data during neurovascular interventions by using multi-projection imaging. <i>International Congress Series</i> , 2005, 1281, 334-338.	0.2	2
162	3D reconstruction of the carotid artery from two views using a single centerline. <i>International Congress Series</i> , 2004, 1268, 177-182.	0.2	5

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163	Registration of vascular 3D data sets obtained from multiple-view reconstructions. International Congress Series, 2004, 1268, 329-334.	0.2	2