

Cynthia H Mccollough

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

254
papers

12,316
citations

53
h-index

107
g-index

275
ext. papers

14,721
ext. citations

5.1
avg, IF

6.51
L-index

#	Paper	IF	Citations
254	Dependence of Water-equivalent Diameter and Size-specific Dose Estimates on CT Tube Potential.. <i>Radiology</i> , 2022 , 210860	20.5	0
253	Clinical evaluation of a phantom-based deep convolutional neural network for whole-body-low-dose and ultra-low-dose CT skeletal surveys. <i>Skeletal Radiology</i> , 2022 , 51, 145-151	2.7	1
252	A New Frontier in Temporal Bone Imaging: Photon-Counting Detector CT Demonstrates Superior Visualization of Critical Anatomic Structures at Reduced Radiation Dose.. <i>American Journal of Neuroradiology</i> , 2022 ,	4.4	3
251	Utility of an automatic adaptive iterative metal artifact reduction AiMAR algorithm in improving CT imaging of patients with hip prostheses evaluated for suspected bladder malignancy.. <i>Abdominal Radiology</i> , 2022 , 47, 2158	3	1
250	Material Decomposition and Post-processing: History and Basic Principles. <i>Medical Radiology</i> , 2022 , 3-14	0.2	
249	First Clinical Photon-counting Detector CT System: Technical Evaluation.. <i>Radiology</i> , 2021 , 212579	20.5	14
248	Procedure for optimal implementation of automatic tube potential selection in pediatric CT to reduce radiation dose and improve workflow. <i>Journal of Applied Clinical Medical Physics</i> , 2021 , 22, 194-202 ^{2,3}		
247	Basal Ganglia Calcification Is Associated With Local and Systemic Metabolic Mechanisms in Adult Hypoparathyroidism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021 , 106, 1900-1917	5.6	2
246	Improved coronary calcification quantification using photon-counting-detector CT: an ex vivo study in cadaveric specimens. <i>European Radiology</i> , 2021 , 31, 6621-6630	8	9
245	Automated radiomic analysis of CT images to predict likelihood of spontaneous passage of symptomatic renal stones. <i>Emergency Radiology</i> , 2021 , 28, 781-788	3	2
244	Deep-learning-based direct synthesis of low-energy virtual monoenergetic images with multi-energy CT. <i>Journal of Medical Imaging</i> , 2021 , 8, 052104	2.6	1
243	Implementation and experimental evaluation of Mega-voltage fan-beam CT using a linear accelerator. <i>Radiation Oncology</i> , 2021 , 16, 139	4.2	
242	The utility of a dual-phase, dual-energy CT protocol in patients presenting with overt gastrointestinal bleeding. <i>Acta Radiologica Open</i> , 2021 , 10, 20584601211030658	1.2	1
241	Clinical evaluation of a new adaptive iterative metal artifact reduction method in whole-body low-dose CT skeletal survey examinations. <i>Skeletal Radiology</i> , 2021 , 50, 149-157	2.7	1
240	Benefits of iterative metal artifact reduction and dual-energy CT towards mitigating artifact in the setting of total shoulder prostheses. <i>Skeletal Radiology</i> , 2021 , 50, 51-58	2.7	2
239	Low-dose CT image and projection dataset. <i>Medical Physics</i> , 2021 , 48, 902-911	4.4	25
238	X-Ray Transmittance Modeling-Based Material Decomposition Using a Photon-Counting Detector CT System. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021 , 5, 508-516	4.2	1

237	Photon Counting CT: Clinical Applications and Future Developments. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021 , 5, 441-452	4.2	12
236	Technical Note: kV-independent coronary calcium scoring: A phantom evaluation of score accuracy and potential radiation dose reduction. <i>Medical Physics</i> , 2021 , 48, 1307-1314	4.4	4
235	The feasibility of low iodine dynamic CT angiography with test bolus for evaluation of lower extremity peripheral artery disease. <i>Vascular</i> , 2021 , 29, 927-937	1.3	
234	Empirical beam hardening and ring artifact correction for x-ray grating interferometry (EBHC-GI). <i>Medical Physics</i> , 2021 , 48, 1327-1340	4.4	
233	High Resolution, Full Field-of-View, Whole Body Photon-Counting Detector CT: System Assessment and Initial Experience.. <i>Proceedings of SPIE</i> , 2021 , 11595,	1.7	2
232	A Web-Based Software Platform for Efficient and Quantitative CT Image Quality Assessment and Protocol Optimization. <i>Proceedings of SPIE</i> , 2021 , 11595,	1.7	1
231	Random Search as a Neural Network Optimization Strategy for Convolutional-Neural-Network (CNN)-based Noise Reduction in CT.. <i>Proceedings of SPIE</i> , 2021 , 11596,	1.7	3
230	Full field-of-view, high-resolution, photon-counting detector CT: technical assessment and initial patient experience. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	6
229	Evaluating a Convolutional Neural Network Noise Reduction Method When Applied to CT Images Reconstructed Differently Than Training Data. <i>Journal of Computer Assisted Tomography</i> , 2021 , 45, 544-551	2.2	2
228	Energy-integrating-detector multi-energy CT: Implementation and a phantom study. <i>Medical Physics</i> , 2021 , 48, 4857-4871	4.4	1
227	Dual-Contrast Biphasic Liver Imaging With Iodine and Gadolinium Using Photon-Counting Detector Computed Tomography: An Exploratory Animal Study. <i>Investigative Radiology</i> , 2021 ,	10.1	4
226	Deep learning enabled ultra-fast-pitch acquisition in clinical X-ray computed tomography. <i>Medical Physics</i> , 2021 , 48, 5712-5726	4.4	1
225	Reader Performance as a Function of Patient Size for the Detection of Hepatic Metastases. <i>Journal of Computer Assisted Tomography</i> , 2021 , 45, 812-819	2.2	
224	Computed tomography turns 50. <i>Physics Today</i> , 2021 , 74, 34-40	0.9	2
223	CT Noise-Reduction Methods for Lower-Dose Scanning: Strengths and Weaknesses of Iterative Reconstruction Algorithms and New Techniques. <i>Radiographics</i> , 2021 , 41, 1493-1508	5.4	4
222	An interactive eye-tracking system for measuring radiologists' visual fixations in volumetric CT images: Implementation and initial eye-tracking accuracy validation. <i>Medical Physics</i> , 2021 , 48, 6710-6723	4.4	0
221	A Pilot Study to Estimate the Impact of High Matrix Image Reconstruction on Chest Computed Tomography. <i>Journal of Clinical Imaging Science</i> , 2021 , 11, 52	1.1	1
220	Quantitative Knee Arthrography in a Large Animal Model of Osteoarthritis Using Photon-Counting Detector CT. <i>Investigative Radiology</i> , 2020 , 55, 349-356	10.1	11

219	Multi-energy CT imaging for large patients using dual-source photon-counting detector CT. <i>Physics in Medicine and Biology</i> , 2020 , 65, 17NT01	3.8	4
218	The evolving role of imaging for small bowel neuroendocrine neoplasms: estimated impact of imaging and disease-free survival in a retrospective observational study. <i>Abdominal Radiology</i> , 2020 , 45, 623-631	3	4
217	Image quality in abdominal CT using an iodine contrast reduction algorithm employing patient size and weight and low kV CT technique. <i>Acta Radiologica</i> , 2020 , 61, 1186-1195	2	1
216	Deep-learning-based model observer for a lung nodule detection task in computed tomography. <i>Journal of Medical Imaging</i> , 2020 , 7, 042807	2.6	3
215	Reducing Heart Dose with Protons and Cardiac Substructure Sparing for Mediastinal Lymphoma Treatment. <i>International Journal of Particle Therapy</i> , 2020 , 7, 1-12	1.5	2
214	Overcoming calcium blooming and improving the quantification accuracy of percent area luminal stenosis by material decomposition of multi-energy computed tomography datasets. <i>Journal of Medical Imaging</i> , 2020 , 7, 053501	2.6	2
213	Noise reduction in CT image using prior knowledge aware iterative denoising. <i>Physics in Medicine and Biology</i> , 2020 ,	3.8	1
212	Synthesizing images from multiple kernels using a deep convolutional neural network. <i>Medical Physics</i> , 2020 , 47, 422-430	4.4	13
211	Prior iterative reconstruction (PIR) to lower radiation dose and preserve radiologist performance for multiphase liver CT: a multi-reader pilot study. <i>Abdominal Radiology</i> , 2020 , 45, 45-54	3	3
210	Quantitative accuracy and dose efficiency of dual-contrast imaging using dual-energy CT: a phantom study. <i>Medical Physics</i> , 2020 , 47, 441-456	4.4	6
209	Dose Reduction for Sinus and Temporal Bone Imaging Using Photon-Counting Detector CT With an Additional Tin Filter. <i>Investigative Radiology</i> , 2020 , 55, 91-100	10.1	27
208	Electrocardiogram-Gated Computed Tomography with Coronary Angiography for Cardiac Substructure Delineation and Sparing in Patients with Mediastinal Lymphomas Treated with Radiation Therapy. <i>Practical Radiation Oncology</i> , 2020 , 10, 104-111	2.8	5
207	Shoulder mechanical impingement risk associated with manual wheelchair tasks in individuals with spinal cord injury. <i>Clinical Biomechanics</i> , 2020 , 71, 221-229	2.2	7
206	Observer Performance for Detection of Pulmonary Nodules at Chest CT over a Large Range of Radiation Dose Levels. <i>Radiology</i> , 2020 , 297, 699-707	20.5	6
205	Deep-learning-based direct inversion for material decomposition. <i>Medical Physics</i> , 2020 , 47, 6294-6309	4.4	8
204	Fat quantification of the rotator cuff musculature using dual-energy CT-A pilot study. <i>European Journal of Radiology</i> , 2020 , 130, 109145	4.7	2
203	Wave optics simulation of grating-based X-ray phase-contrast imaging using 4D Mouse Whole Body (MOBY) phantom. <i>Medical Physics</i> , 2020 , 47, 5761-5771	4.4	1
202	Evaluation of Pseudoreader Study Designs to Estimate Observer Performance Results as an Alternative to Fully Crossed, Multireader, Multicase Studies. <i>Academic Radiology</i> , 2020 , 27, 244-252	4.3	1

201	A Universal Protocol for Abdominal CT Examinations Performed on a Photon-Counting Detector CT System: A Feasibility Study. <i>Investigative Radiology</i> , 2020 , 55, 226-232	10.1	8
200	State of the Art in Abdominal CT: The Limits of Iterative Reconstruction Algorithms. <i>Radiology</i> , 2019 , 293, 491-503	20.5	60
199	Reducing radiation dose for multi-phase contrast-enhanced dual energy renal CT: pilot study evaluating prior iterative reconstruction. <i>Abdominal Radiology</i> , 2019 , 44, 3350-3358	3	2
198	Comparison of glenohumeral joint kinematics between manual wheelchair tasks and implications on the subacromial space: A biplane fluoroscopy study. <i>Journal of Electromyography and Kinesiology</i> , 2019 , 62, 102350	2.5	3
197	Computed Tomography Technology-and Dose-in the 21st Century. <i>Health Physics</i> , 2019 , 116, 157-162	2.3	10
196	Renal Adiposity Does not Preclude Quantitative Assessment of Renal Function Using Dual-Energy Multidetector CT in Mildly Obese Human Subjects. <i>Academic Radiology</i> , 2019 , 26, 1488-1494	4.3	5
195	Feasibility of multi-contrast imaging on dual-source photon counting detector (PCD) CT: An initial phantom study. <i>Medical Physics</i> , 2019 , 46, 4105-4115	4.4	26
194	Clinical utility of virtual noncalcium dual-energy CT in imaging of the pelvis and hip. <i>Skeletal Radiology</i> , 2019 , 48, 1833-1842	2.7	6
193	Symptomatic and Radiographic Manifestations of Kidney Stone Recurrence and Their Prediction by Risk Factors: A Prospective Cohort Study. <i>Journal of the American Society of Nephrology: JASN</i> , 2019 , 30, 1251-1260	12.7	21
192	Dual-Energy CT Monitoring of Cryoablation Zone Growth in the Spinal Column and Bony Pelvis: A Laboratory Study. <i>Journal of Vascular and Interventional Radiology</i> , 2019 , 30, 1496-1503	2.4	7
191	Photon-counting Detector CT: System Design and Clinical Applications of an Emerging Technology. <i>Radiographics</i> , 2019 , 39, 729-743	5.4	83
190	Localization of liver lesions in abdominal CT imaging: I. Correlation of human observer performance between anatomical and uniform backgrounds. <i>Physics in Medicine and Biology</i> , 2019 , 64, 105011	3.8	6
189	Dual-source photon counting detector CT with a tin filter: a phantom study on iodine quantification performance. <i>Physics in Medicine and Biology</i> , 2019 , 64, 115019	3.8	14
188	Localization of liver lesions in abdominal CT imaging: II. Mathematical model observer performance correlates with human observer performance for localization of liver lesions in abdominal CT imaging. <i>Physics in Medicine and Biology</i> , 2019 , 64, 105012	3.8	4
187	A deep learning- and partial least square regression-based model observer for a low-contrast lesion detection task in CT. <i>Medical Physics</i> , 2019 , 46, 2052-2063	4.4	20
186	Improving iodine contrast to noise ratio using virtual monoenergetic imaging and prior-knowledge-aware iterative denoising (mono-PKAID). <i>Physics in Medicine and Biology</i> , 2019 , 64, 105014	3.8	9
185	Understanding, justifying, and optimizing radiation exposure for CT imaging in nephrourology. <i>Nature Reviews Urology</i> , 2019 , 16, 231-244	5.5	15
184	Technical Note: Increased photon starvation artifacts at low helical pitch in ultra-low-dose CT. <i>Medical Physics</i> , 2019 , 46, 5538-5543	4.4	1

183	Radiation dose efficiency of multi-energy photon-counting-detector CT for dual-contrast imaging. <i>Physics in Medicine and Biology</i> , 2019 , 64, 245003	3.8	13
182	Impact of prior information on material decomposition in dual- and multienergy computed tomography. <i>Journal of Medical Imaging</i> , 2019 , 6, 013503	2.6	6
181	Determination of iodine detectability in different types of multiple-energy images for a photon-counting detector computed tomography system. <i>Journal of Medical Imaging</i> , 2019 , 6, 043501	2.6	3
180	Simulation of CT images reconstructed with different kernels using a convolutional neural network and its implications for efficient CT workflow 2019 ,		6
179	Correlation between a deep-learning-based model observer and human observer for a realistic lung nodule localization task in chest CT 2019 ,		2
178	Estimating Patient Organ Dose with Computed Tomography: A Review of Present Methodology and Required DICOM Information A Joint Report of AAPM Task Group 246 and the European Federation of Organizations for Medical Physics (EFOMP) 2019 ,		4
177	Multi-contrast imaging on dual-source photon-counting-detector (PCD) CT 2019 ,		3
176	Ability of Dual-Energy CT to Detect Silicone Gel Breast Implant Rupture and Nodal Silicone Spread. <i>American Journal of Roentgenology</i> , 2019 , 212, 933-942	5.4	9
175	Individualized Delay for Abdominal Computed Tomography Angiography Bolus-Tracking Based on Sequential Monitoring: Increased Aortic Contrast Permits Decreased Injection Rate and Lower Iodine Dose. <i>Journal of Computer Assisted Tomography</i> , 2019 , 43, 612-618	2.2	5
174	Evaluation of Lower-Dose Spiral Head CT for Detection of Intracranial Findings Causing Neurologic Deficits. <i>American Journal of Neuroradiology</i> , 2019 , 40, 1855-1863	4.4	5
173	High-Resolution Chest Computed Tomography Imaging of the Lungs: Impact of 1024 Matrix Reconstruction and Photon-Counting Detector Computed Tomography. <i>Investigative Radiology</i> , 2019 , 54, 129-137	10.1	44
172	Reduction of Metal Artifacts and Improvement in Dose Efficiency Using Photon-Counting Detector Computed Tomography and Tin Filtration. <i>Investigative Radiology</i> , 2019 , 54, 204-211	10.1	33
171	Estimating a size-specific dose for helical head CT examinations using Monte Carlo simulation methods. <i>Medical Physics</i> , 2019 , 46, 902-912	4.4	7
170	Robustness of Textural Features to Predict Stone Fragility Across Computed Tomography Acquisition and Reconstruction Parameters. <i>Academic Radiology</i> , 2019 , 26, 885-892	4.3	1
169	Findings of CT-Derived Bone Strength Assessment in Inflammatory Bowel Disease Patients Undergoing CT Enterography in Clinical Practice. <i>Inflammatory Bowel Diseases</i> , 2019 , 25, 1072-1079	4.5	8
168	Lead Shielding in Pediatric Chest CT: Effect of Apron Placement Outside the Scan Volume on Radiation Dose Reduction. <i>American Journal of Roentgenology</i> , 2019 , 212, 151-156	5.4	6
167	Impact of Effective Detector Pixel and CT Voxel Size on Accurate Estimation of Blood Volume in Opacified Microvasculature. <i>Academic Radiology</i> , 2019 , 26, 1410-1416	4.3	2
166	Clinical Assessment of Metal Artifact Reduction Methods in Dual-Energy CT Examinations of Instrumented Spines. <i>American Journal of Roentgenology</i> , 2019 , 212, 395-401	5.4	5

165	Breathe New Life Into Your Chest CT Exams: Using Advanced Acquisition and Postprocessing Techniques. <i>Current Problems in Diagnostic Radiology</i> , 2019 , 48, 152-160	1.6	2
164	Validation of imaging-based quantification of glenohumeral joint kinematics using an unmodified clinical biplane fluoroscopy system. <i>Journal of Biomechanics</i> , 2018 , 71, 306-312	2.9	6
163	Characterization of Urinary Stone Composition by Use of Whole-body, Photon-counting Detector CT. <i>Academic Radiology</i> , 2018 , 25, 1270-1276	4.3	11
162	Targeted Imaging of Renal Fibrosis Using Antibody-Conjugated Gold Nanoparticles in Renal Artery Stenosis. <i>Investigative Radiology</i> , 2018 , 53, 623-628	10.1	11
161	The Changing Incidence and Presentation of Urinary Stones Over 3 Decades. <i>Mayo Clinic Proceedings</i> , 2018 , 93, 291-299	6.4	61
160	Intrarenal fat deposition does not interfere with the measurement of single-kidney perfusion in obese swine using multi-detector computed tomography. <i>Journal of Cardiovascular Computed Tomography</i> , 2018 , 12, 149-152	2.8	9
159	Low kV versus dual-energy virtual monoenergetic CT imaging for proven liver lesions: what are the advantages and trade-offs in conspicuity and image quality? A pilot study. <i>Abdominal Radiology</i> , 2018 , 43, 1404-1412	3	20
158	Detection and Characterization of Renal Stones by Using Photon-Counting-based CT. <i>Radiology</i> , 2018 , 289, 436-442	20.5	25
157	Evaluation of projection- and dual-energy-based methods for metal artifact reduction in CT using a phantom study. <i>Journal of Applied Clinical Medical Physics</i> , 2018 , 19, 252-260	2.3	13
156	Material decomposition with prior knowledge aware iterative denoising (MD-PKAID). <i>Physics in Medicine and Biology</i> , 2018 , 63, 195003	3.8	28
155	Estimating lung, breast, and effective dose from low-dose lung cancer screening CT exams with tube current modulation across a range of patient sizes. <i>Medical Physics</i> , 2018 , 45, 4667-4682	4.4	6
154	150- μ m Spatial Resolution Using Photon-Counting Detector Computed Tomography Technology: Technical Performance and First Patient Images. <i>Investigative Radiology</i> , 2018 , 53, 655-662	10.1	63
153	Dual-source multienergy CT with triple or quadruple x-ray beams. <i>Journal of Medical Imaging</i> , 2018 , 5, 033502	2.6	10
152	Evaluation of a photon counting Medipix3RX cadmium zinc telluride spectral x-ray detector. <i>Journal of Medical Imaging</i> , 2018 , 5, 043503	2.6	1
151	Ultra-High Resolution Photon-Counting Detector CT Reconstruction using Spectral Prior Image Constrained Compressed-Sensing (UHR-SPICCS). <i>Proceedings of SPIE</i> , 2018 , 10573,	1.7	6
150	Determination of Optimal Image Type and Lowest Detectable Concentration for Iodine Detection on a Photon Counting Detector-Based Multi-Energy CT System. <i>Proceedings of SPIE</i> , 2018 , 10573,	1.7	5
149	Impact of Photon Counting Detector Technology on kV Selection and Diagnostic Workflow in CT. <i>Proceedings of SPIE</i> , 2018 , 10573,	1.7	7
148	Three-Material Decomposition in Multi-energy CT: Impact of Prior Information on Noise and Bias. <i>Proceedings of SPIE</i> , 2018 , 10573,	1.7	6

147	Correlation between model observers in uniform background and human observers in patient liver background for a low-contrast detection task in CT. <i>Proceedings of SPIE</i> , 2018 , 10577,	1.7	2
146	Reproducible imaging features of biologically aggressive gastrointestinal stromal tumors of the small bowel. <i>Abdominal Radiology</i> , 2018 , 43, 1567-1574	3	14
145	Concern about a recently published paper in the European Journal of Radiology. <i>European Journal of Radiology</i> , 2018 , 109, 203	4.7	
144	Comparison of a Photon-Counting-Detector CT with an Energy-Integrating-Detector CT for Temporal Bone Imaging: A Cadaveric Study. <i>American Journal of Neuroradiology</i> , 2018 , 39, 1733-1738	4.4	28
143	Observer Performance with Varying Radiation Dose and Reconstruction Methods for Detection of Hepatic Metastases. <i>Radiology</i> , 2018 , 289, 455-464	20.5	28
142	Theoretical and experimental analysis of photon counting detector CT for proton stopping power prediction. <i>Medical Physics</i> , 2018 , 45, 5186-5196	4.4	6
141	Prospective Pilot Evaluation of Radiologists and Computer-aided Pulmonary Nodule Detection on Ultra-low-Dose CT With Tin Filtration. <i>Journal of Thoracic Imaging</i> , 2018 , 33, 396-401	5.6	11
140	Advocating for use of the ALARA principle in the context of medical imaging fails to recognize that the risk is hypothetical and so serves to reinforce patients' fears of radiation. <i>Medical Physics</i> , 2017 , 44, 3-6	4.4	19
139	An effective noise reduction method for multi-energy CT images that exploit spatio-spectral features. <i>Medical Physics</i> , 2017 , 44, 1610-1623	4.4	26
138	Reducing Iodine Contrast Volume in CT Angiography of the Abdominal Aorta Using Integrated Tube Potential Selection and Weight-Based Method Without Compromising Image Quality. <i>American Journal of Roentgenology</i> , 2017 , 208, 552-563	5.4	16
137	Detection of increased vasa vasorum in artery walls: Improving CT number accuracy using image deconvolution. <i>Proceedings of SPIE</i> , 2017 , 10132,	1.7	1
136	Technical Note: Insertion of digital lesions in the projection domain for dual-source, dual-energy CT. <i>Medical Physics</i> , 2017 , 44, 1655-1660	4.4	2
135	Low-Dose CT for Craniosynostosis: Preserving Diagnostic Benefit with Substantial Radiation Dose Reduction. <i>American Journal of Neuroradiology</i> , 2017 , 38, 672-677	4.4	18
134	Selection of optimal tube potential settings for dual-energy CT virtual mono-energetic imaging of iodine in the abdomen. <i>Abdominal Radiology</i> , 2017 , 42, 2289-2296	3	9
133	A virtual clinical trial using projection-based nodule insertion to determine radiologist reader performance in lung cancer screening CT. <i>Proceedings of SPIE</i> , 2017 , 10132,	1.7	3
132	Consistency of Renal Stone Volume Measurements Across CT Scanner Model and Reconstruction Algorithm Configurations. <i>American Journal of Roentgenology</i> , 2017 , 209, 116-121	5.4	4
131	A multi-reader in vitro study using porcine kidneys to determine the impact of integrated circuit detectors and iterative reconstruction on the detection accuracy, size measurement, and radiation dose for small (. <i>Acta Radiologica</i> , 2017 , 58, 1012-1019	2	1
130	Estimating patient dose from CT exams that use automatic exposure control: Development and validation of methods to accurately estimate tube current values. <i>Medical Physics</i> , 2017 , 44, 4262-4275	4.4	22

129	Anatomic modeling using 3D printing: quality assurance and optimization. <i>3D Printing in Medicine</i> , 2017 , 3, 6	5	61
128	Correlation between a 2D channelized Hotelling observer and human observers in a low-contrast detection task with multislice reading in CT. <i>Medical Physics</i> , 2017 , 44, 3990-3999	4.4	24
127	Evaluation of a projection-domain lung nodule insertion technique in thoracic computed tomography. <i>Journal of Medical Imaging</i> , 2017 , 4, 013510	2.6	2
126	Estimation of Observer Performance for Reduced Radiation Dose Levels in CT: Eliminating Reduced Dose Levels That Are Too Low Is the First Step. <i>Academic Radiology</i> , 2017 , 24, 876-890	4.3	23
125	Subjective and objective heterogeneity scores for differentiating small renal masses using contrast-enhanced CT. <i>Abdominal Radiology</i> , 2017 , 42, 1485-1492	3	25
124	Utility of single-energy and dual-energy computed tomography in clot characterization: An in-vitro study. <i>Interventional Neuroradiology</i> , 2017 , 23, 279-284	1.9	15
123	A comparison of relative proton stopping power measurements across patient size using dual- and single-energy CT. <i>Acta Oncologica</i> , 2017 , 56, 1465-1471	3.2	14
122	Spectral performance of a whole-body research photon counting detector CT: quantitative accuracy in derived image sets. <i>Physics in Medicine and Biology</i> , 2017 , 62, 7216-7232	3.8	58
121	Estimation of signal and noise for a whole-body research photon-counting CT system. <i>Journal of Medical Imaging</i> , 2017 , 4, 023505	2.6	13
120	Practical implementation of Channelized Hotelling Observers: Effect of ROI size. <i>Proceedings of SPIE</i> , 2017 , 10132,	1.7	3
119	Low-dose CT for the detection and classification of metastatic liver lesions: Results of the 2016 Low Dose CT Grand Challenge. <i>Medical Physics</i> , 2017 , 44, e339-e352	4.4	62
118	CT Dental Artifact: Comparison of an Iterative Metal Artifact Reduction Technique with Weighted Filtered Back-Projection. <i>Acta Radiologica Open</i> , 2017 , 6, 2058460117743279	1.2	19
117	Use of a channelized Hotelling observer to assess CT image quality and optimize dose reduction for iteratively reconstructed images. <i>Journal of Medical Imaging</i> , 2017 , 4, 031213	2.6	6
116	Lung nodule volume quantification and shape differentiation with an ultra-high resolution technique on a photon-counting detector computed tomography system. <i>Journal of Medical Imaging</i> , 2017 , 4, 043502	2.6	12
115	Phase-contrast imaging with a compact x-ray light source: system design. <i>Journal of Medical Imaging</i> , 2017 , 4, 043503	2.6	1
114	Measuring arterial wall perfusion using photon-counting computed tomography (CT): improving CT number accuracy of artery wall using image deconvolution. <i>Journal of Medical Imaging</i> , 2017 , 4, 044006	2.6	3
113	Spectral prior image constrained compressed sensing (spectral PICCS) for photon-counting computed tomography. <i>Physics in Medicine and Biology</i> , 2016 , 61, 6707-6732	3.8	53
112	Validation of a Projection-domain Insertion of Liver Lesions into CT Images. <i>Academic Radiology</i> , 2016 , 23, 1221-9	4.3	4

111	Human Imaging With Photon Counting-Based Computed Tomography at Clinical Dose Levels: Contrast-to-Noise Ratio and Cadaver Studies. <i>Investigative Radiology</i> , 2016 , 51, 421-9	10.1	133
110	Evaluation of a projection-domain lung nodule insertion technique in thoracic CT. <i>Proceedings of SPIE</i> , 2016 , 9783,	1.7	4
109	Construction of realistic phantoms from patient images and a commercial three-dimensional printer. <i>Journal of Medical Imaging</i> , 2016 , 3, 033501	2.6	22
108	Predicting detection performance with model observers: Fourier domain or spatial domain?. <i>Proceedings of SPIE</i> , 2016 , 9783,	1.7	2
107	Evaluation of a photon counting Medipix3RX CZT spectral x-ray detector. <i>Proceedings of SPIE</i> , 2016 , 9969,	1.7	3
106	Dual-Energy CT for Quantification of Urinary Stone Composition in Mixed Stones: A Phantom Study. <i>American Journal of Roentgenology</i> , 2016 , 207, 321-9	5.4	19
105	Evaluation of conventional imaging performance in a research whole-body CT system with a photon-counting detector array. <i>Physics in Medicine and Biology</i> , 2016 , 61, 1572-95	3.8	144
104	Relative accuracy of spin-image-based registration of partial capitate bones in 4DCT of the wrist. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2016 , 4, 360-367 ⁹	0.9	2
103	A robust noise reduction technique for time resolved CT. <i>Medical Physics</i> , 2016 , 43, 347	4.4	10
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