

# Cynthia H Mccollough

## List of Publications by Year in descending order

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271  
papers

16,885  
citations

20036

63  
h-index

18944

123  
g-index

275  
all docs

275  
docs citations

275  
times ranked

9865  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diagnostic Performance in Low- and High-Contrast Tasks of an Image-Based Denoising Algorithm Applied to Radiation Dose-Reduced Multiphase Abdominal CT Examinations. <i>American Journal of Roentgenology</i> , 2023, 220, 73-85.	1.0	4
2	Improved visualization of the wrist at lower radiation dose with photon-counting-detector CT. <i>Skeletal Radiology</i> , 2023, 52, 23-29.	1.2	26
3	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> , 2022, 62, 102350.	0.7	8
4	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.	1.2	11
5	Dual-Contrast Biphasic Liver Imaging With Iodine and Gadolinium Using Photon-Counting Detector Computed Tomography. <i>Investigative Radiology</i> , 2022, 57, 122-129.	3.5	25
6	Deep-learning model observer for a low-contrast hepatic metastases localization task in computed tomography. <i>Medical Physics</i> , 2022, 49, 70-83.	1.6	7
7	Simultaneous dual-contrast imaging using energy-integrating detector multi-energy CT: An in vivo feasibility study. <i>Medical Physics</i> , 2022, 49, 1458-1467.	1.6	3
8	Dependence of Water-equivalent Diameter and Size-specific Dose Estimates on CT Tube Potential. <i>Radiology</i> , 2022, 303, 404-411.	3.6	4
9	First Clinical Photon-counting Detector CT System: Technical Evaluation. <i>Radiology</i> , 2022, 303, 130-138.	3.6	201
10	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, 43, 579-584.	1.2	43
11	Technical note: Evaluation of Artificial 120-kilovolt computed tomography images for radiation therapy applications. <i>Medical Physics</i> , 2022, , .	1.6	1
12	Improved assessment of coronary artery luminal stenosis with heavy calcifications using high-resolution photon-counting detector CT. , 2022, , .		9
13	Impact of improved spatial resolution on radiomic features using photon-counting-detector CT. , 2022, , .		4
14	A 25-reader performance study for hepatic metastasis detection: lessons from unsupervised learning. , 2022, , .		1
15	Improving coronary artery imaging in single source CT with cardiac motion correction using attention and spatial transformer based neural networks. , 2022, , .		2
16	Quantification of coronary calcification using high-resolution photon-counting-detector CT and an image domain denoising algorithm. , 2022, , .		5
17	Quantitative assessment of motion effects in dual-source dual energy CT and dual-source photon-counting detector CT. , 2022, , .		1
18	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, 2158-2167.	1.0	3

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19	Estimating the Clinical Impact of Photon-Counting-Detector CT in Diagnosing Usual Interstitial Pneumonia. <i>Investigative Radiology</i> , 2022, 57, 734-741.	3.5	34
20	Ultra-high-resolution imaging of the shoulder and pelvis using photon-counting-detector CT: a feasibility study in patients. <i>European Radiology</i> , 2022, 32, 7079-7086.	2.3	31
21	A minimum SNR criterion for computed tomography object detection in the projection domain. <i>Medical Physics</i> , 2022, 49, 4988-4998.	1.6	5
22	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.	1.2	2
23	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.	1.2	10
24	Low-dose CT image and projection dataset. <i>Medical Physics</i> , 2021, 48, 902-911.	1.6	89
25	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.	2.7	5
26	Photon Counting CT: Clinical Applications and Future Developments. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021, 5, 441-452.	2.7	68
27	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.	1.6	10
28	The feasibility of low iodine dynamic CT angiography with test bolus for evaluation of lower extremity peripheral artery disease. <i>Vascular</i> , 2021, 29, 170853812098630.	0.4	0
29	Empirical beam hardening and ring artifact correction for x-ray grating interferometry (EBH-CGI). <i>Medical Physics</i> , 2021, 48, 1327-1340.	1.6	0
30	High resolution, full field of view, whole body photon-counting detector CT: system assessment and initial experience. , 2021, 11595, .		5
31	A web-based software platform for efficient and quantitative CT image quality assessment and protocol optimization. , 2021, 11595, .		2
32	Random search as a neural network optimization strategy for Convolutional-Neural-Network (CNN)-based noise reduction in CT. , 2021, 11596, .		10
33	Deep-learning lesion and noise insertion for virtual clinical trial in chest CT. , 2021, 11595, .		0
34	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.	1.8	7
35	Improved coronary calcification quantification using photon-counting-detector CT: an ex vivo study in cadaveric specimens. <i>European Radiology</i> , 2021, 31, 6621-6630.	2.3	37
36	Automated radiomic analysis of CT images to predict likelihood of spontaneous passage of symptomatic renal stones. <i>Emergency Radiology</i> , 2021, 28, 781-788.	1.0	6

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37	Deep-learning-based direct synthesis of low-energy virtual monoenergetic images with multi-energy CT. <i>Journal of Medical Imaging</i> , 2021, 8, 052104.	0.8	8
38	Implementation and experimental evaluation of Mega-voltage fan-beam CT using a linear accelerator. <i>Radiation Oncology</i> , 2021, 16, 139.	1.2	1
39	The utility of a dual-phase, dual-energy CT protocol in patients presenting with overt gastrointestinal bleeding. <i>Acta Radiologica Open</i> , 2021, 10, 205846012110306.	0.3	3
40	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, 205019.	1.6	54
41	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.	0.5	17
42	Energyâ€integratingâ€detector multiâ€energy CT: Implementation and a phantom study. <i>Medical Physics</i> , 2021, 48, 4857-4871.	1.6	2
43	Deep learning enabled ultraâ€fastâ€pitch acquisition in clinical Xâ€ray computed tomography. <i>Medical Physics</i> , 2021, 48, 5712-5726.	1.6	5
44	Reader Performance as a Function of Patient Size for the Detection of Hepatic Metastases. <i>Journal of Computer Assisted Tomography</i> , 2021, Publish Ahead of Print, 812-819.	0.5	0
45	Computed tomography turns 50. <i>Physics Today</i> , 2021, 74, 34-40.	0.3	12
46	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.	1.4	41
47	An interactive eyeâ€tracking system for measuring radiologists' visual fixations in volumetric CT images: Implementation and initial eyeâ€tracking accuracy validation. <i>Medical Physics</i> , 2021, 48, 6710-6723.	1.6	4
48	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.	0.4	4
49	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.	0.8	1
50	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.	1.3	1
51	Synthesizing images from multiple kernels using a deep convolutional neural network. <i>Medical Physics</i> , 2020, 47, 422-430.	1.6	26
52	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.	1.0	5
53	Quantitative accuracy and dose efficiency of dualâ€contrast imaging using dualâ€energy CT: a phantom study. <i>Medical Physics</i> , 2020, 47, 441-456.	1.6	13
54	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.	3.5	86

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55	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.	1.1	8
56	Shoulder mechanical impingement risk associated with manual wheelchair tasks in individuals with spinal cord injury. <i>Clinical Biomechanics</i> , 2020, 71, 221-229.	0.5	18
57	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.	3.6	15
58	Deep-learning-based direct inversion for material decomposition. <i>Medical Physics</i> , 2020, 47, 6294-6309.	1.6	26
59	Fat quantification of the rotator cuff musculature using dual-energy CT—A pilot study. <i>European Journal of Radiology</i> , 2020, 130, 109145.	1.2	11
60	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.	1.6	3
61	Quantitative Knee Arthrography in a Large Animal Model of Osteoarthritis Using Photon-Counting Detector CT. <i>Investigative Radiology</i> , 2020, 55, 349-356.	3.5	22
62	Multi-energy CT imaging for large patients using dual-source photon-counting detector CT. <i>Physics in Medicine and Biology</i> , 2020, 65, 17NT01.	1.6	14
63	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.	1.0	10
64	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.	0.5	4
65	A Universal Protocol for Abdominal CT Examinations Performed on a Photon-Counting Detector CT System. <i>Investigative Radiology</i> , 2020, 55, 226-232.	3.5	24
66	Noise reduction in CT image using prior knowledge aware iterative denoising. <i>Physics in Medicine and Biology</i> , 2020, , .	1.6	6
67	Deep-learning-based model observer for a lung nodule detection task in computed tomography. <i>Journal of Medical Imaging</i> , 2020, 7, 1.	0.8	9
68	Reducing Heart Dose with Protons and Cardiac Substructure Sparing for Mediastinal Lymphoma Treatment. <i>International Journal of Particle Therapy</i> , 2020, 7, 1-12.	0.9	8
69	A Blooming correction technique for improved vasa vasorum detection using an ultra-high-resolution photon-counting detector CT. , 2020, 11312, .		3
70	Multi-energy CT with triple X-ray beams: a feasibility animal study. , 2020, 11312, .		0
71	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.	0.8	5
72	Technical Note: Increased photon starvation artifacts at low helical pitch in ultra-low-dose CT. <i>Medical Physics</i> , 2019, 46, 5538-5543.	1.6	1

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73	Radiation dose efficiency of multi-energy photon-counting-detector CT for dual-contrast imaging. <i>Physics in Medicine and Biology</i> , 2019, 64, 245003.	1.6	22
74	State of the Art in Abdominal CT: The Limits of Iterative Reconstruction Algorithms. <i>Radiology</i> , 2019, 293, 491-503.	3.6	126
75	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.	1.0	4
76	Computed Tomography Technology and Dose in the 21st Century. <i>Health Physics</i> , 2019, 116, 157-162.	0.3	17
77	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.	1.3	6
78	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.	1.6	41
79	Clinical utility of virtual noncalcium dual-energy CT in imaging of the pelvis and hip. <i>Skeletal Radiology</i> , 2019, 48, 1833-1842.	1.2	6
80	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.	3.0	48
81	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.	0.2	9
82	Photon-counting Detector CT: System Design and Clinical Applications of an Emerging Technology. <i>Radiographics</i> , 2019, 39, 729-743.	1.4	270
83	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.	1.6	9
84	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.	1.6	18
85	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.	1.6	8
86	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.	1.6	27
87	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.	1.6	19
88	Understanding, justifying, and optimizing radiation exposure for CT imaging in nephrourology. <i>Nature Reviews Urology</i> , 2019, 16, 231-244.	1.9	28
89	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.	1.0	15
90	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.	0.5	8

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91	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.	1.2	9
92	High-Resolution Chest Computed Tomography Imaging of the Lungs. <i>Investigative Radiology</i> , 2019, 54, 129-137.	3.5	106
93	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.	3.5	76
94	Estimating a size-specific dose for helical head CT examinations using Monte Carlo simulation methods. <i>Medical Physics</i> , 2019, 46, 902-912.	1.6	10
95	Robustness of Textural Features to Predict Stone Fragility Across Computed Tomography Acquisition and Reconstruction Parameters. <i>Academic Radiology</i> , 2019, 26, 885-892.	1.3	3
96	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.	0.9	11
97	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.	1.0	16
98	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.	1.3	5
99	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.	1.0	20
100	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.	0.6	4
101	Impact of prior information on material decomposition in dual- and multienergy computed tomography. <i>Journal of Medical Imaging</i> , 2019, 6, 1.	0.8	7
102	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, 1.	0.8	3
103	Simulation of CT images reconstructed with different kernels using a convolutional neural network and its implications for efficient CT workflow. , 2019, , .		6
104	Correlation between a deep-learning-based model observer and human observer for a realistic lung nodule localization task in chest CT. , 2019, , .		3
105	Multi-contrast imaging on dual-source photon-counting-detector (PCD) CT. , 2019, , .		3
106	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.	0.9	9
107	Characterization of Urinary Stone Composition by Use of Whole-body, Photon-counting Detector CT. <i>Academic Radiology</i> , 2018, 25, 1270-1276.	1.3	17
108	Targeted Imaging of Renal Fibrosis Using Antibody-Conjugated Gold Nanoparticles in Renal Artery Stenosis. <i>Investigative Radiology</i> , 2018, 53, 623-628.	3.5	15

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109	The Changing Incidence and Presentation of Urinary Stones Over 3 Decades. Mayo Clinic Proceedings, 2018, 93, 291-299.	1.4	107
110	Intrarenal fat deposition does not interfere with the measurement of single-kidney perfusion in obese swine using multi-detector computed tomography. Journal of Cardiovascular Computed Tomography, 2018, 12, 149-152.	0.7	9
111	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. Abdominal Radiology, 2018, 43, 1404-1412.	1.0	30
112	Reproducible imaging features of biologically aggressive gastrointestinal stromal tumors of the small bowel. Abdominal Radiology, 2018, 43, 1567-1574.	1.0	21
113	Concern about a recently published paper in the European Journal of Radiology. European Journal of Radiology, 2018, 109, 203.	1.2	0
114	Comparison of a Photon-Counting-Detector CT with an Energy-Integrating-Detector CT for Temporal Bone Imaging: A Cadaveric Study. American Journal of Neuroradiology, 2018, 39, 1733-1738.	1.2	69
115	Observer Performance with Varying Radiation Dose and Reconstruction Methods for Detection of Hepatic Metastases. Radiology, 2018, 289, 455-464.	3.6	40
116	Theoretical and experimental analysis of photon counting detector CT for proton stopping power prediction. Medical Physics, 2018, 45, 5186-5196.	1.6	11
117	Prospective Pilot Evaluation of Radiologists and Computer-aided Pulmonary Nodule Detection on Ultra-low-Dose CT With Tin Filtration. Journal of Thoracic Imaging, 2018, 33, 396-401.	0.8	21
118	Detection and Characterization of Renal Stones by Using Photon-Counting-based CT. Radiology, 2018, 289, 436-442.	3.6	43
119	Evaluation of projection and dual-energy based methods for metal artifact reduction in CT using a phantom study. Journal of Applied Clinical Medical Physics, 2018, 19, 252-260.	0.8	27
120	Material decomposition with prior knowledge aware iterative denoising (MD-PKAID). Physics in Medicine and Biology, 2018, 63, 195003.	1.6	39
121	Estimating lung, breast, and effective dose from low-dose lung cancer screening CT exams with tube current modulation across a range of patient sizes. Medical Physics, 2018, 45, 4667-4682.	1.6	7
122	150- $\mu$ m Spatial Resolution Using Photon-Counting Detector Computed Tomography Technology. Investigative Radiology, 2018, 53, 655-662.	3.5	137
123	Dual-source multienergy CT with triple or quadruple x-ray beams. Journal of Medical Imaging, 2018, 5, 1.	0.8	14
124	Evaluation of a photon counting Medipix3RX cadmium zinc telluride spectral x-ray detector. Journal of Medical Imaging, 2018, 5, 1.	0.8	4
125	Ultra-high resolution photon-counting detector CT reconstruction using spectral prior image constrained compressed-sensing (UHR-SPICCS). , 2018, 10573, .		7
126	Determination of optimal image type and lowest detectable concentration for iodine detection on a photon counting detector-based multi-energy CT system. , 2018, 10573, .		6



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127	Impact of photon counting detector technology on kV selection and diagnostic workflow in CT. , 2018, 10573, .		10
128	Three-material decomposition in multi-energy CT: impact of prior information on noise and bias. , 2018, 10573, .		8
129	Correlation between model observers in uniform background and human observer in patient liver background for a low-contrast detection task in CT. , 2018, 10577, .		2
130	Advocating for use of the <sc>ALARA</sc> principle in the context of medical imaging fails to recognize that the risk is hypothetical and so serves to reinforce patients' fears of radiation. Medical Physics, 2017, 44, 3-6.	1.6	27
131	An effective noise reduction method for multi-energy <sc>CT</sc> images that exploit spatio-spectral features. Medical Physics, 2017, 44, 1610-1623.	1.6	37
132	Reducing Iodine Contrast Volume in CT Angiography of the Abdominal Aorta Using Integrated Tube Potential Selection and Weight-Based Method Without Compromising Image Quality. American Journal of Roentgenology, 2017, 208, 552-563.	1.0	21
133	Detection of increased vasa vasorum in artery walls: improving CT number accuracy using image deconvolution. , 2017, 10132, .		1
134	Technical Note: Insertion of digital lesions in the projection domain for dual-source, dual-energy <sc>CT</sc>. Medical Physics, 2017, 44, 1655-1660.	1.6	3
135	Low-Dose CT for Craniosynostosis: Preserving Diagnostic Benefit with Substantial Radiation Dose Reduction. American Journal of Neuroradiology, 2017, 38, 672-677.	1.2	29
136	Selection of optimal tube potential settings for dual-energy CT virtual mono-energetic imaging of iodine in the abdomen. Abdominal Radiology, 2017, 42, 2289-2296.	1.0	14
137	A virtual clinical trial using projection-based nodule insertion to determine radiologist reader performance in lung cancer screening CT. , 2017, 10132, .		6
138	Consistency of Renal Stone Volume Measurements Across CT Scanner Model and Reconstruction Algorithm Configurations. American Journal of Roentgenology, 2017, 209, 116-121.	1.0	5
139	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 (<math>4\text{-}6\text{ mm}</math>) renal stones. Acta Radiologica, 2017, 58, 1012-1019.	0.5	2
140	Estimating patient dose from CT exams that use automatic exposure control: Development and validation of methods to accurately estimate tube current values. Medical Physics, 2017, 44, 4262-4275.	1.6	27
141	Anatomic modeling using 3D printing: quality assurance and optimization. 3D Printing in Medicine, 2017, 3, 6.	1.7	83
142	Correlation between a 2D channelized Hotelling observer and human observers in a low-contrast detection task with multislice reading in <sc>CT</sc>. Medical Physics, 2017, 44, 3990-3999.	1.6	37
143	Evaluation of a projection-domain lung nodule insertion technique in thoracic computed tomography. Journal of Medical Imaging, 2017, 4, 013510.	0.8	4
144	Estimation of Observer Performance for Reduced Radiation Dose Levels in CT. Academic Radiology, 2017, 24, 876-890.	1.3	38

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145	Subjective and objective heterogeneity scores for differentiating small renal masses using contrast-enhanced CT. <i>Abdominal Radiology</i> , 2017, 42, 1485-1492.	1.0	34
146	Utility of single-energy and dual-energy computed tomography in clot characterization: An in-vitro study. <i>Interventional Neuroradiology</i> , 2017, 23, 279-284.	0.7	17
147	A comparison of relative proton stopping power measurements across patient size using dual- and single-energy CT. <i>Acta OncolÃ³gica</i> , 2017, 56, 1465-1471.	0.8	22
148	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.	1.6	90
149	Estimation of signal and noise for a whole-body research photon-counting CT system. <i>Journal of Medical Imaging</i> , 2017, 4, 023505.	0.8	14
150	Practical implementation of channelized hotelling observers: effect of ROI size. <i>Proceedings of SPIE</i> , 2017, 10132, .	0.8	5
151	Low-dose <sc>CT</sc> for the detection and classification of metastatic liver lesions: Results of the 2016 Low Dose <sc>CT</sc> Grand Challenge. <i>Medical Physics</i> , 2017, 44, e339-e352.	1.6	132
152	CT Dental Artifact: Comparison of an Iterative Metal Artifact Reduction Technique with Weighted Filtered Back-Projection. <i>Acta Radiologica Open</i> , 2017, 6, 205846011774327.	0.3	29
153	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, 1.	0.8	9
154	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, 1.	0.8	20
155	Phase-contrast imaging with a compact x-ray light source: system design. <i>Journal of Medical Imaging</i> , 2017, 4, 1.	0.8	1
156	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, 1.	0.8	7
157	How Low Can We Go in Radiation Dose for the Data-Completion Scan on a Research Whole-Body Photon-Counting Computed Tomography System. <i>Journal of Computer Assisted Tomography</i> , 2016, 40, 663-670.	0.5	47
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