

# Shuai Leng

## List of Publications by Year in descending order

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197  
papers

10,709  
citations

36203

51  
h-index

34900

98  
g-index

200  
all docs

200  
docs citations

200  
times ranked

6936  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual- and Multi-Energy CT: Principles, Technical Approaches, and Clinical Applications. <i>Radiology</i> , 2015, 276, 637-653.	3.6	1,092
2	Prior image constrained compressed sensing (PICCS): A method to accurately reconstruct dynamic CT images from highly undersampled projection data sets. <i>Medical Physics</i> , 2008, 35, 660-663.	1.6	939
3	Dual-Energy CT-Based Monochromatic Imaging. <i>American Journal of Roentgenology</i> , 2012, 199, S9-S15.	1.0	483
4	CT Dose Index and Patient Dose: They Are Not the Same Thing. <i>Radiology</i> , 2011, 259, 311-316.	3.6	377
5	Radiation dose reduction in computed tomography: techniques and future perspective. <i>Imaging in Medicine</i> , 2009, 1, 65-84.	0.0	296
6	Virtual monochromatic imaging in dual-source dual-energy CT: Radiation dose and image quality. <i>Medical Physics</i> , 2011, 38, 6371-6379.	1.6	282
7	Photon-counting Detector CT: System Design and Clinical Applications of an Emerging Technology. <i>Radiographics</i> , 2019, 39, 729-743.	1.4	270
8	Achieving Routine Submillisievert CT Scanning: Report from the Summit on Management of Radiation Dose in CT. <i>Radiology</i> , 2012, 264, 567-580.	3.6	246
9	Dual-energy CT for the diagnosis of gout: an accuracy and diagnostic yield study. <i>Annals of the Rheumatic Diseases</i> , 2015, 74, 1072-1077.	0.5	216
10	Identification of Intraarticular and Periarticular Uric Acid Crystals with Dual-Energy CT: Initial Evaluation. <i>Radiology</i> , 2011, 261, 516-524.	3.6	211
11	Human Imaging With Photon Counting-Based Computed Tomography at Clinical Dose Levels. <i>Investigative Radiology</i> , 2016, 51, 421-429.	3.5	205
12	First Clinical Photon-counting Detector CT System: Technical Evaluation. <i>Radiology</i> , 2022, 303, 130-138.	3.6	201
13	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, 1572-1595.	1.6	185
14	Prevalence of Extracoronary Vascular Abnormalities and Fibromuscular Dysplasia in Patients With Spontaneous Coronary Artery Dissection. <i>American Journal of Cardiology</i> , 2015, 115, 1672-1677.	0.7	167
15	Dual-source spiral CT with pitch up to 3.2 and 75 ms temporal resolution: Image reconstruction and assessment of image quality. <i>Medical Physics</i> , 2009, 36, 5641-5653.	1.6	155
16	Performance evaluation of computed tomography systems: Summary of AAPM Task Group 233. <i>Medical Physics</i> , 2019, 46, e735-e756.	1.6	148
17	High temporal resolution and streak-free four-dimensional cone-beam computed tomography. <i>Physics in Medicine and Biology</i> , 2008, 53, 5653-5673.	1.6	140
18	150- $\mu$ m Spatial Resolution Using Photon-Counting Detector Computed Tomography Technology. <i>Investigative Radiology</i> , 2018, 53, 655-662.	3.5	137

#	ARTICLE	IF	CITATIONS
19	Three-dimensional Physical Modeling: Applications and Experience at Mayo Clinic. <i>Radiographics</i> , 2015, 35, 1989-2006.	1.4	134
20	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.	1.6	132
21	Dual-Energy Dual-Source CT With Additional Spectral Filtration Can Improve the Differentiation of Non-Uric Acid Renal Stones: An Ex Vivo Phantom Study. <i>American Journal of Roentgenology</i> , 2011, 196, 1279-1287.	1.0	120
22	Prediction of human observer performance in a 2-alternative forced choice low-contrast detection task using channelized Hotelling observer: Impact of radiation dose and reconstruction algorithms. <i>Medical Physics</i> , 2013, 40, 041908.	1.6	117
23	Degradation of CT Low-Contrast Spatial Resolution Due to the Use of Iterative Reconstruction and Reduced Dose Levels. <i>Radiology</i> , 2015, 276, 499-506.	3.6	116
24	High-Resolution Chest Computed Tomography Imaging of the Lungs. <i>Investigative Radiology</i> , 2019, 54, 129-137.	3.5	106
25	Dose-efficient ultrahigh-resolution scan mode using a photon counting detector computed tomography system. <i>Journal of Medical Imaging</i> , 2016, 3, 043504.	0.8	105
26	Maximizing Iodine Contrast-to-Noise Ratios in Abdominal CT Imaging through Use of Energy Domain Noise Reduction and Virtual Monoenergetic Dual-Energy CT. <i>Radiology</i> , 2015, 276, 562-570.	3.6	100
27	Noise reduction in spectral CT: Reducing dose and breaking the trade-off between image noise and energy bin selection. <i>Medical Physics</i> , 2011, 38, 4946-4957.	1.6	95
28	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
29	Low-dose CT image and projection dataset. <i>Medical Physics</i> , 2021, 48, 902-911.	1.6	89
30	Streaking artifacts reduction in four-dimensional cone-beam computed tomography. <i>Medical Physics</i> , 2008, 35, 4649-4659.	1.6	88
31	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
32	Electronic Noise in CT Detectors: Impact on Image Noise and Artifacts. <i>American Journal of Roentgenology</i> , 2013, 201, W626-W632.	1.0	83
33	Correlation between model observer and human observer performance in CT imaging when lesion location is uncertain. <i>Medical Physics</i> , 2013, 40, 081908.	1.6	83
34	Anatomic modeling using 3D printing: quality assurance and optimization. <i>3D Printing in Medicine</i> , 2017, 3, 6.	1.7	83
35	Radiation Dose Levels for Interventional CT Procedures. <i>American Journal of Roentgenology</i> , 2011, 197, W97-W103.	1.0	77
36	Attenuation-based estimation of patient size for the purpose of size specific dose estimation in CT. Part I. Development and validation of methods using the CT image. <i>Medical Physics</i> , 2012, 39, 6764-6771.	1.6	76

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37	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
38	Spectral prior image constrained compressed sensing (spectral PICCS) for photon-counting computed tomography. <i>Physics in Medicine and Biology</i> , 2016, 61, 6707-6732.	1.6	75
39	Noise performance of low-dose CT: comparison between an energy integrating detector and a photon counting detector using a whole-body research photon counting CT scanner. <i>Journal of Medical Imaging</i> , 2016, 3, 043503.	0.8	74
40	Dynamic CT technique for assessment of wrist joint instabilities. <i>Medical Physics</i> , 2011, 38, S50-S56.	1.6	69
41	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.	1.2	69
42	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
43	Attenuation-based estimation of patient size for the purpose of size specific dose estimation in CT. Part II. Implementation on abdomen and thorax phantoms using cross sectional CT images and scanned projection radiograph images. <i>Medical Physics</i> , 2012, 39, 6772-6778.	1.6	67
44	Size-specific Dose Estimates for Chest, Abdominal, and Pelvic CT: Effect of Inpatient Variability in Water-equivalent Diameter. <i>Radiology</i> , 2015, 276, 184-190.	3.6	66
45	Small (< 4 cm) Renal Mass: Differentiation of Oncocytoma From Renal Cell Carcinoma on Biphasic Contrast-Enhanced CT. <i>American Journal of Roentgenology</i> , 2015, 205, 999-1007.	1.0	66
46	Update on Multienergy CT: Physics, Principles, and Applications. <i>Radiographics</i> , 2020, 40, 1284-1308.	1.4	66
47	A novel application of CT angiography to detect extracoronary vascular abnormalities in patients with spontaneous coronary artery dissection. <i>Journal of Cardiovascular Computed Tomography</i> , 2014, 8, 189-197.	0.7	64
48	Small (< 4 cm) Renal Masses: Differentiation of Angiomyolipoma Without Visible Fat From Renal Cell Carcinoma Using Unenhanced and Contrast-Enhanced CT. <i>American Journal of Roentgenology</i> , 2015, 205, 1194-1202.	1.0	59
49	Automatic Selection of Tube Potential for Radiation Dose Reduction in Vascular and Contrast-Enhanced Abdominopelvic CT. <i>American Journal of Roentgenology</i> , 2013, 201, W297-W306.	1.0	58
50	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
51	Applications of Dual-Energy CT in Urologic Imaging: An Update. <i>Radiologic Clinics of North America</i> , 2012, 50, 191-205.	0.9	53
52	Technical Note: Measuring contrast- and noise-dependent spatial resolution of an iterative reconstruction method in CT using ensemble averaging. <i>Medical Physics</i> , 2015, 42, 2261-2267.	1.6	52
53	Observer Performance in the Detection and Classification of Malignant Hepatic Nodules and Masses with CT Image-Space Denoising and Iterative Reconstruction. <i>Radiology</i> , 2015, 276, 465-478.	3.6	51
54	Use of dual-energy CT and virtual non-calcium techniques to evaluate post-traumatic bone bruises in knees in the subacute setting. <i>Skeletal Radiology</i> , 2014, 43, 1289-1295.	1.2	50

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55	A Technique for Quantifying Wrist Motion Using Four-Dimensional Computed Tomography: Approach and Validation. <i>Journal of Biomechanical Engineering</i> , 2015, 137, .	0.6	49
56	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
57	Detection and Characterization of Renal Stones by Using Photon-Counting-based CT. <i>Radiology</i> , 2018, 289, 436-442.	3.6	43
58	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
59	Correlation between human and model observer performance for discrimination task in CT. <i>Physics in Medicine and Biology</i> , 2014, 59, 3389-3404.	1.6	41
60	Feasibility of multi-energy 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
61	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
62	Observer Performance with Varying Radiation Dose and Reconstruction Methods for Detection of Hepatic Metastases. <i>Radiology</i> , 2018, 289, 455-464.	3.6	40
63	Material decomposition with prior knowledge aware iterative denoising (MD-PKAID). <i>Physics in Medicine and Biology</i> , 2018, 63, 195003.	1.6	39
64	In Vivo Pilot Study Evaluating the Thumb Carpometacarpal Joint During Circumduction. <i>Clinical Orthopaedics and Related Research</i> , 2014, 472, 1106-1113.	0.7	38
65	Estimation of Observer Performance for Reduced Radiation Dose Levels in CT. <i>Academic Radiology</i> , 2017, 24, 876-890.	1.3	38
66	Feasibility of Discriminating Uric Acid From Non-Uric Acid Renal Stones Using Consecutive Spatially Registered Low- and High-Energy Scans Obtained on a Conventional CT Scanner. <i>American Journal of Roentgenology</i> , 2015, 204, 92-97.	1.0	37
67	An effective noise reduction method for multi-energy CT images that exploit spatio-spectral features. <i>Medical Physics</i> , 2017, 44, 1610-1623.	1.6	37
68	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.	1.6	37
69	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
70	Characterization of Urinary Stone Composition by Use of Third-Generation Dual-Source Dual-Energy CT With Increased Spectral Separation. <i>American Journal of Roentgenology</i> , 2015, 205, 1203-1207.	1.0	36
71	Technical Note: Improved CT number stability across patient size using dual-energy CT virtual monoenergetic imaging. <i>Medical Physics</i> , 2016, 43, 513-517.	1.6	36
72	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

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73	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
74	The Role of Dynamic (4D) CT in the Detection of Scapholunate Ligament Injury. <i>Journal of Wrist Surgery</i> , 2016, 05, 306-310.	0.3	33
75	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
76	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.	1.0	30
77	Exact fan-beam image reconstruction algorithm for truncated projection data acquired from an asymmetric half-size detector. <i>Physics in Medicine and Biology</i> , 2005, 50, 1805-1820.	1.6	28
78	Construction of realistic phantoms from patient images and a commercial three-dimensional printer. <i>Journal of Medical Imaging</i> , 2016, 3, 033501.	0.8	28
79	Radiation Dose Reduction at CT Enterography: How Low Can We Go While Preserving Diagnostic Accuracy?. <i>American Journal of Roentgenology</i> , 2010, 195, 76-77.	1.0	27
80	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.	1.6	27
81	Evaluation of projectionâ€•and dualâ€•energyâ€•based methods for metal artifact reduction in <scp>CT</scp> using a phantom study. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 252-260.	0.8	27
82	A deep learningâ€•and partial least square regressionâ€•based model observer for a lowâ€•contrast lesion detection task in CT. <i>Medical Physics</i> , 2019, 46, 2052-2063.	1.6	27
83	Synthesizing images from multiple kernels using a deep convolutional neural network. <i>Medical Physics</i> , 2020, 47, 422-430.	1.6	26
84	Deepâ€•learningâ€•based direct inversion for material decomposition. <i>Medical Physics</i> , 2020, 47, 6294-6309.	1.6	26
85	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
86	Technical Note: Development and validation of an open data format for CT projection data. <i>Medical Physics</i> , 2015, 42, 6964-6972.	1.6	25
87	Image-based material decomposition with a general volume constraint for photon-counting CT. <i>Proceedings of SPIE</i> , 2015, 9412, .	0.8	24
88	Dual-Energy CT for Quantification of Urinary Stone Composition in Mixed Stones: A Phantom Study. <i>American Journal of Roentgenology</i> , 2016, 207, 321-329.	1.0	24
89	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
90	CT negative attenuation pixel distribution and texture analysis for detection of fat in small angiomyolipoma on unenhanced CT. <i>Abdominal Radiology</i> , 2016, 41, 1142-1151.	1.0	22

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91	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
92	Dealing with Uncertainty in CT Images. <i>Radiology</i> , 2016, 279, 5-10.	3.6	21
93	Individualized kV Selection and Tube Current Reduction in Excretory Phase Computed Tomography Urography. <i>Journal of Computer Assisted Tomography</i> , 2013, 37, 551-559.	0.5	20
94	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
95	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
96	Reducing Image Noise in Computed Tomography (CT) Colonography. <i>Journal of Computer Assisted Tomography</i> , 2014, 38, 398-403.	0.5	18
97	Lesion insertion in the projection domain: Methods and initial results. <i>Medical Physics</i> , 2015, 42, 7034-7042.	1.6	18
98	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
99	Implementation of a channelized Hotelling observer model to assess image quality of x-ray angiography systems. <i>Journal of Medical Imaging</i> , 2015, 2, 015503.	0.8	17
100	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
101	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
102	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
103	Radiation Dose Reduction for CT-Guided Renal Tumor Cryoablation. <i>American Journal of Roentgenology</i> , 2011, 196, W586-W591.	1.0	16
104	Impact of number of repeated scans on model observer performance for a low-contrast detection task in computed tomography. <i>Journal of Medical Imaging</i> , 2016, 3, 023504.	0.8	15
105	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
106	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
107	Radiation Dose Reduction in Dual-Energy CT: Does It Affect the Accuracy of Urinary Stone Characterization?. <i>American Journal of Roentgenology</i> , 2015, 205, W172-W176.	1.0	14
108	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.	1.0	14

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109	Estimation of signal and noise for a whole-body research photon-counting CT system. Journal of Medical Imaging, 2017, 4, 023505.	0.8	14
110	Multi-energy computed tomography and material quantification: Current barriers and opportunities for advancement. Medical Physics, 2020, 47, 3752-3771.	1.6	14
111	Multi-energy CT imaging for large patients using dual-source photon-counting detector CT. Physics in Medicine and Biology, 2020, 65, 17NT01.	1.6	14
112	Dual-source multienergy CT with triple or quadruple x-ray beams. Journal of Medical Imaging, 2018, 5, 1.	0.8	14
113	The influence of focal spot blooming on high-contrast spatial resolution in CT imaging. Medical Physics, 2015, 42, 6011-6020.	1.6	13
114	Use of CT Dose Notification and Alert Values in Routine Clinical Practice. Journal of the American College of Radiology, 2014, 11, 450-455.	0.9	12
115	Assessment of Low-Contrast Resolution for the American College of Radiology Computed Tomographic Accreditation Program. Journal of Computer Assisted Tomography, 2015, 39, 619-623.	0.5	12
116	Arterial wall perfusion measured with photon counting spectral x-ray CT. Proceedings of SPIE, 2016, 9967, .	0.8	12
117	Characterization of thrombus composition with multimodality CT-based imaging: an in-vitro study. Journal of NeuroInterventional Surgery, 2021, 13, 738-740.	2.0	12
118	A robust noise reduction technique for time resolved CT. Medical Physics, 2015, 43, 347-359.	1.6	11
119	Implementation and evaluation of a protocol management system for automated review of CT protocols. Journal of Applied Clinical Medical Physics, 2016, 17, 523-533.	0.8	11
120	Clinical evaluation of a phantom-based deep convolutional neural network for whole-body-low-dose and ultra-low-dose CT skeletal surveys. Skeletal Radiology, 2022, 51, 145-151.	1.2	11
121	Dual-source multi-energy CT with triple or quadruple x-ray beams. , 2016, 9783, .		10
122	Technical Note: kV-independent coronary calcium scoring: A phantom evaluation of score accuracy and potential radiation dose reduction. Medical Physics, 2021, 48, 1307-1314.	1.6	10
123	Random search as a neural network optimization strategy for Convolutional-Neural-Network (CNN)-based noise reduction in CT. , 2021, 11596, .		10
124	Impact of photon counting detector technology on kV selection and diagnostic workflow in CT. , 2018, 10573, .		10
125	Dual-Energy CT Monitoring of Cryoablation Zone Growth in the Spinal Column and Bony Pelvis: A Laboratory Study. Journal of Vascular and Interventional Radiology, 2019, 30, 1496-1503.	0.2	9
126	Localization of liver lesions in abdominal CT imaging: I. Correlation of human observer performance between anatomical and uniform backgrounds. Physics in Medicine and Biology, 2019, 64, 105011.	1.6	9



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127	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
128	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
129	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
130	Improved assessment of coronary artery luminal stenosis with heavy calcifications using high-resolution photon-counting detector CT. , 2022, , .		9
131	Construction of realistic liver phantoms from patient images using 3D printer and its application in CT image quality assessment. , 2015, 2015, .		8
132	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
133	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
134	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
135	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
136	Lesion insertion in projection domain for computed tomography image quality assessment. <i>Proceedings of SPIE</i> , 2015, 9412, .	0.8	7
137	An open library of CT patient projection data. <i>Proceedings of SPIE</i> , 2016, 9783, .	0.8	7
138	Percutaneous Renal Tumor Ablation: Radiation Exposure During Cryoablation and Radiofrequency Ablation. <i>CardioVascular and Interventional Radiology</i> , 2016, 39, 233-238.	0.9	7
139	Dynamic computed tomographic assessment of the mitral annulus in patients with and without mitral prolapse. <i>Journal of Cardiovascular Computed Tomography</i> , 2020, 14, 502-509.	0.7	7
140	Ultra-high resolution photon-counting detector CT reconstruction using spectral prior image constrained compressed-sensing (UHR-SPICCS). , 2018, 10573, .		7
141	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
142	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
143	A virtual clinical trial using projection-based nodule insertion to determine radiologist reader performance in lung cancer screening CT. , 2017, 10132, .		6
144	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

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145	Noise reduction in CT image using prior knowledge aware iterative denoising. Physics in Medicine and Biology, 2020, , .	1.6	6
146	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
147	Simulation of CT images reconstructed with different kernels using a convolutional neural network and its implications for efficient CT workflow. , 2019, , .		6
148	Validation of a Projection-domain Insertion of Liver Lesions into CT Images. Academic Radiology, 2016, 23, 1221-1229.	1.3	5
149	Evaluation of a projection-domain lung nodule insertion technique in thoracic CT. , 2016, 9783, .		5
150	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
151	Practical implementation of channelized hotelling observers: effect of ROI size. Proceedings of SPIE, 2017, 10132, .	0.8	5
152	Impact of Effective Detector Pixel and CT Voxel Size on Accurate Estimation of Blood Volume in Opacified Microvasculature. Academic Radiology, 2019, 26, 1410-1416.	1.3	5
153	X-Ray Transmittance Modeling-Based Material Decomposition Using a Photon-Counting Detector CT System. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 508-516.	2.7	5
154	High resolution, full field of view, whole body photon-counting detector CT: system assessment and initial experience. , 2021, 11595, .		5
155	Overcoming calcium blooming and improving the quantification accuracy of percent area luminal stenosis by material decomposition of multi-energy computed tomography datasets. Journal of Medical Imaging, 2020, 7, 053501.	0.8	5
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