

Ehsan Samei

List of Publications by Year in descending order

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633
papers

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citations

22153

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all docs

666
docs citations

666
times ranked

6729
citing authors

#	ARTICLE	IF	CITATIONS
1	A method for measuring the presampled MTF of digital radiographic systems using an edge test device. Medical Physics, 1998, 25, 102-113.	3.0	607
2	Low-Tube-Voltage, High-Tube-Current Multidetector Abdominal CT: Improved Image Quality and Decreased Radiation Dose with Adaptive Statistical Iterative Reconstruction Algorithmâ€”Initial Clinical Experience. Radiology, 2010, 254, 145-153.	7.3	470
3	Towards task-based assessment of CT performance: System and object MTF across different reconstruction algorithms. Medical Physics, 2012, 39, 4115-4122.	3.0	317
4	Assessment of display performance for medical imaging systems: Executive summary of AAPM TG18 report. Medical Physics, 2005, 32, 1205-1225.	3.0	290
5	An experimental comparison of detector performance for direct and indirect digital radiography systems. Medical Physics, 2003, 30, 608-622.	3.0	248
6	Achieving Routine Submillisievert CT Scanning: Report from the Summit on Management of Radiation Dose in CT. Radiology, 2012, 264, 567-580.	7.3	246
7	Detection of Subtle Lung Nodules: Relative Influence of Quantum and Anatomic Noise on Chest Radiographs. Radiology, 1999, 213, 727-734.	7.3	224
8	Hypervascular Liver Tumors: Low Tube Voltage, High Tube Current Multidetector CT during Late Hepatic Arterial Phase for Detectionâ€”Initial Clinical Experience. Radiology, 2009, 251, 771-779.	7.3	218
9	Recent Advances in Chest Radiography. Radiology, 2006, 241, 663-683.	7.3	176
10	Physics, 2006, 33, 1454.	3.0	172
11	Reproducibility of CT Radiomic Features within the Same Patient: Influence of Radiation Dose and CT Reconstruction Settings. Radiology, 2019, 293, 583-591.	7.3	172
12	Hypervascular Liver Tumors: Low Tube Voltage, High Tube Current Multiâ€”Detector Row CT for Enhanced Detectionâ€”Phantom Study. Radiology, 2008, 246, 125-132.	7.3	170
13	Assessment of the dose reduction potential of a modelâ€”based iterative reconstruction algorithm using a taskâ€”based performance metrology. Medical Physics, 2015, 42, 314-323.	3.0	160
14	Population of anatomically variable 4D XCAT adult phantoms for imaging research and optimization. Medical Physics, 2013, 40, 043701.	3.0	154
15	Performance evaluation of computed tomography systems: Summary of AAPM Task Group 233. Medical Physics, 2019, 46, e735-e756.	3.0	148
16	Medical Physics, 2006, 33, 1466.	3.0	137
17	Patientâ€”specific radiation dose and cancer risk estimation in CT: Part II. Application to patients. Medical Physics, 2011, 38, 408-419.	3.0	136
18	Detection of Pancreatic Tumors, Image Quality, and Radiation Dose during the Pancreatic Parenchymal Phase: Effect of a Low-Tube-Voltage, High-Tube-Current CT Techniqueâ€”Preliminary Results. Radiology, 2010, 256, 450-459.	7.3	135

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19	Diagnostic Performance of an Advanced Modeled Iterative Reconstruction Algorithm for Low-Contrast Detectability with a Third-Generation Dual-Source Multidetector CT Scanner: Potential for Radiation Dose Reduction in a Multireader Study. <i>Radiology</i> , 2015, 275, 735-745.	7.3	134
20	A framework for optimising the radiographic technique in digital X-ray imaging. <i>Radiation Protection Dosimetry</i> , 2005, 114, 220-229.	0.8	127
21	Quantitative comparison of noise texture across CT scanners from different manufacturers. <i>Medical Physics</i> , 2012, 39, 6048-6055.	3.0	120
22	An experimental comparison of detector performance for computed radiography systems. <i>Medical Physics</i> , 2002, 29, 447-459.	3.0	113
23	Noise and spatial resolution properties of a commercially available deep learning-based CT reconstruction algorithm. <i>Medical Physics</i> , 2020, 47, 3961-3971.	3.0	113
24	Experimental comparison of noise and resolution for 2k and 4k storage phosphor radiography systems. <i>Medical Physics</i> , 1999, 26, 1612-1623.	3.0	112
25	An exposure indicator for digital radiography: AAPM Task Group 116 (Executive Summary). <i>Medical Physics</i> , 2009, 36, 2898-2914.	3.0	108
26	Patient-specific Radiation Dose and Cancer Risk for Pediatric Chest CT. <i>Radiology</i> , 2011, 259, 862-874.	7.3	104
27	Patient-specific radiation dose and cancer risk estimation in CT: Part I. Development and validation of a Monte Carlo program. <i>Medical Physics</i> , 2011, 38, 397-407.	3.0	101
28	Generalized "satisfaction of search": Adverse influences on dual-target search accuracy.. <i>Journal of Experimental Psychology: Applied</i> , 2010, 16, 60-71.	1.2	100
29	Assessment of volumetric noise and resolution performance for linear and nonlinear CT reconstruction methods. <i>Medical Physics</i> , 2014, 41, 071909.	3.0	93
30	Impact of Dual-Energy Multi-Detector Row CT with Virtual Monochromatic Imaging on Renal Cyst Pseudoenhancement: In Vitro and in Vivo Study. <i>Radiology</i> , 2014, 272, 767-776.	7.3	93
31	Quantitative Features of Liver Lesions, Lung Nodules, and Renal Stones at Multi-Detector Row CT Examinations: Dependency on Radiation Dose and Reconstruction Algorithm. <i>Radiology</i> , 2016, 279, 185-194.	7.3	93
32	Virtual clinical trials in medical imaging: a review. <i>Journal of Medical Imaging</i> , 2020, 7, 1.	1.5	93
33	Automated Technique to Measure Noise in Clinical CT Examinations. <i>American Journal of Roentgenology</i> , 2015, 205, W93-W99.	2.2	89
34	A methodology for image quality evaluation of advanced CT systems. <i>Medical Physics</i> , 2013, 40, 031908.	3.0	87
35	Development of realistic physical breast phantoms matched to virtual breast phantoms based on human subject data. <i>Medical Physics</i> , 2015, 42, 4116-4126.	3.0	86
36	Characteristic image quality of a third generation dual-source MDCT scanner: Noise, resolution, and detectability. <i>Medical Physics</i> , 2015, 42, 4941-4953.	3.0	86

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37	A method for modifying the image quality parameters of digital radiographic images. <i>Medical Physics</i> , 2003, 30, 3006-3017.	3.0	84
38	Effect of Radiation Dose Reduction and Reconstruction Algorithm on Image Noise, Contrast, Resolution, and Detectability of Subtle Hypoattenuating Liver Lesions at Multidetector CT: Filtered Back Projection versus a Commercial Model-based Iterative Reconstruction Algorithm. <i>Radiology</i> , 2017, 284, 777-787.	7.3	84
39	Quantum noise properties of CT images with anatomical textured backgrounds across reconstruction algorithms: FBP and SAFIRE. <i>Medical Physics</i> , 2014, 41, 091908.	3.0	82
40	Monte Carlo reference data sets for imaging research: Executive summary of the report of AAPM Research Committee Task Group 195. <i>Medical Physics</i> , 2015, 42, 5679-5691.	3.0	76
41	Optimization of exposure parameters in full field digital mammography. <i>Medical Physics</i> , 2008, 35, 2414-2423.	3.0	75
42	An Improved Index of Image Quality for Task-based Performance of CT Iterative Reconstruction across Three Commercial Implementations. <i>Radiology</i> , 2015, 275, 725-734.	7.3	73
43	Dose dependence of mass and microcalcification detection in digital mammography: Free response human observer studies. <i>Medical Physics</i> , 2007, 34, 400-407.	3.0	72
44	Subtle Lung Nodules: Influence of Local Anatomic Variations on Detection. <i>Radiology</i> , 2003, 228, 76-84.	7.3	71
45	Chest Radiography: Optimization of X-ray Spectrum for Cesium Iodide Amorphous Silicon Flat-Panel Detector. <i>Radiology</i> , 2003, 226, 221-230.	7.3	69
46	Detection of Colorectal Hepatic Metastases Is Superior at Standard Radiation Dose CT versus Reduced Dose CT. <i>Radiology</i> , 2019, 290, 400-409.	7.3	69
47	Image quality in two phosphor-based flat panel digital radiographic detectors. <i>Medical Physics</i> , 2003, 30, 1747-1757.	3.0	68
48	Optimized image acquisition for breast tomosynthesis in projection and reconstruction space. <i>Medical Physics</i> , 2009, 36, 4859-4869.	3.0	66
49	Pencil beam coded aperture x-ray scatter imaging. <i>Optics Express</i> , 2012, 20, 16310.	3.4	66
50	How does image quality compare with conventional 2D FFDM?. <i>Medical Physics</i> , 2016, 43, 2538-2547.	3.0	66
51	Application of the 4-D XCAT Phantoms in Biomedical Imaging and Beyond. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 680-692.	8.9	65
52	Performance evaluation of computed radiography systems. <i>Medical Physics</i> , 2001, 28, 361-371.	3.0	63
53	Simulation of Mammographic Lesions. <i>Academic Radiology</i> , 2006, 13, 860-870.	2.5	63
54	Automated size-specific CT dose monitoring program: Assessing variability in CT dose. <i>Medical Physics</i> , 2012, 39, 7131-7139.	3.0	63

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55	AAPM/RSNA Tutorial on Equipment Selection: PACS Equipment Overview. Radiographics, 2004, 24, 313-334.	3.3	62
56	Determination of the detective quantum efficiency of a digital x-ray detector: Comparison of three evaluations using a common image data set. Medical Physics, 2004, 31, 2205-2211.	3.0	62
57	Does image quality matter? Impact of resolution and noise on mammographic task performance. Medical Physics, 2007, 34, 3971-3981.	3.0	62
58	Kilovoltage cone-beam CT: Comparative dose and image quality evaluations in partial and full-angle scan protocols. Medical Physics, 2010, 37, 3648-3659.	3.0	61
59	Simulation study of a quasi-monochromatic beam for x-ray computed mammotomography. Medical Physics, 2004, 31, 800-813.	3.0	60
60	Detector or System? Extending the Concept of Detective Quantum Efficiency to Characterize the Performance of Digital Radiographic Imaging Systems. Radiology, 2008, 249, 926-937.	7.3	60
61	Effective DQE (eDQE) and speed of digital radiographic systems: An experimental methodology. Medical Physics, 2009, 36, 3806-3817.	3.0	59
62	Patient-based estimation of organ dose for a population of 58 adult patients across 13 protocol categories. Medical Physics, 2014, 41, 072104.	3.0	59
63	The Effect of Contrast Material on Radiation Dose at CT: Part II. A Systematic Evaluation across 58 Patient Models. Radiology, 2017, 283, 749-757.	7.3	59
64	A Third-Generation Adaptive Statistical Iterative Reconstruction Technique: Phantom Study of Image Noise, Spatial Resolution, Lesion Detectability, and Dose Reduction Potential. American Journal of Roentgenology, 2018, 210, 1301-1308.	2.2	59
65	Simulation of subtle lung nodules in projection chest radiography.. Radiology, 1997, 202, 117-124.	7.3	58
66	Organ doses, effective doses, and risk indices in adult CT: Comparison of four types of reference phantoms across different examination protocols. Medical Physics, 2012, 39, 3404-3423.	3.0	57
67	Dual-Energy MDCT in Hypervascular Liver Tumors: Effect of Body Size on Selection of the Optimal Monochromatic Energy Level. American Journal of Roentgenology, 2014, 203, 1257-1264.	2.2	57
68	A generic framework to simulate realistic lung, liver and renal pathologies in CT imaging. Physics in Medicine and Biology, 2014, 59, 6637-6657.	3.0	56
69	Comparison of low-contrast detectability between two CT reconstruction algorithms using voxel-based 3D printed textured phantoms. Medical Physics, 2016, 43, 6497-6506.	3.0	55
70	An Anthropomorphic Breast Model for Breast Imaging Simulation and Optimization. Academic Radiology, 2011, 18, 536-546.	2.5	54
71	Fundamental imaging characteristics of a slot-scan digital chest radiographic system. Medical Physics, 2004, 31, 2687-2698.	3.0	53
72	Introduction to Grayscale Calibration and Related Aspects of Medical Imaging Grade Liquid Crystal Displays. Journal of Digital Imaging, 2008, 21, 193-207.	2.9	52

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73	Patient-specific quantification of image quality: An automated method for measuring spatial resolution in clinical CT images. <i>Medical Physics</i> , 2016, 43, 5330-5338.	3.0	52
74	Pediatric Chest and Abdominopelvic CT: Organ Dose Estimation Based on 42 Patient Models. <i>Radiology</i> , 2014, 270, 535-547.	7.3	51
75	Physical characterization of a prototype selenium-based full field digital mammography detector. <i>Medical Physics</i> , 2005, 32, 588-599.	3.0	50
76	Volumetric quantification of lung nodules in CT with iterative reconstruction (ASiR and MBIR). <i>Medical Physics</i> , 2013, 40, 111902.	3.0	50
77	Evaluating iterative reconstruction performance in computed tomography. <i>Medical Physics</i> , 2014, 41, 121913.	3.0	50
78	Radiation Dose Reduction in Abdominal Computed Tomography During the Late Hepatic Arterial Phase Using a Model-Based Iterative Reconstruction Algorithm. <i>Investigative Radiology</i> , 2012, 47, 468-474.	6.2	49
79	Virtual Unenhanced Images at Dual-Energy CT: Influence on Renal Lesion Characterization. <i>Radiology</i> , 2019, 291, 381-390.	7.3	49
80	DukeSim: A Realistic, Rapid, and Scanner-Specific Simulation Framework in Computed Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1457-1465.	8.9	49
81	Ambient illumination revisited: A new adaptation-based approach for optimizing medical imaging reading environments. <i>Medical Physics</i> , 2006, 34, 81-90.	3.0	48
82	Design and development of a fully 3D dedicated x-ray computed mamotomography system. , 2005, 5745, 189.		47
83	Technological and Psychophysical Considerations for Digital Mammographic Displays. <i>Radiographics</i> , 2005, 25, 491-501.	3.3	47
84	Assessment of Detective Quantum Efficiency: Intercomparison of a Recently Introduced International Standard with Prior Methods. <i>Radiology</i> , 2007, 243, 785-795.	7.3	46
85	Quantitative imaging in breast tomosynthesis and CT: Comparison of detection and estimation task performance. <i>Medical Physics</i> , 2010, 37, 2627-2637.	3.0	46
86	Effects of protocol and obesity on dose conversion factors in adult body CT. <i>Medical Physics</i> , 2012, 39, 6550-6571.	3.0	46
87	The development of a population of 4D pediatric XCAT phantoms for imaging research and optimization. <i>Medical Physics</i> , 2015, 42, 4719-4726.	3.0	46
88	Comparison of edge analysis techniques for the determination of the MTF of digital radiographic systems. <i>Physics in Medicine and Biology</i> , 2005, 50, 3613-3625.	3.0	45
89	Digital Mammography: Effects of Reduced Radiation Dose on Diagnostic Performance. <i>Radiology</i> , 2007, 243, 396-404.	7.3	45
90	Effect of a Noise-Optimized Second-Generation Monoenergetic Algorithm on Image Noise and Conspicuity of Hypervascular Liver Tumors: An In Vitro and In Vivo Study. <i>American Journal of Roentgenology</i> , 2016, 206, 1222-1232.	2.2	45

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91	Reduced-Dose Deep Learning Reconstruction for Abdominal CT of Liver Metastases. <i>Radiology</i> , 2022, 303, 90-98.	7.3	45
92	Relating Noise to Image Quality Indicators in CT Examinations With Tube Current Modulation. <i>American Journal of Roentgenology</i> , 2013, 200, 592-600.	2.2	44
93	Modeling Lung Architecture in the XCAT Series of Phantoms: Physiologically Based Airways, Arteries and Veins. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 693-702.	8.9	44
94	Can Texture Analysis Be Used to Distinguish Benign From Malignant Adrenal Nodules on Unenhanced CT, Contrast-Enhanced CT, or In-Phase and Opposed-Phase MRI?. <i>American Journal of Roentgenology</i> , 2019, 212, 554-561.	2.2	44
95	Can Compression Be Reduced for Breast Tomosynthesis? Monte Carlo Study on Mass and Microcalcification Conspicuity in Tomosynthesis. <i>Radiology</i> , 2009, 251, 673-682.	7.3	43
96	DQE of direct and indirect digital radiography systems. , 2001, , .		41
97	A mathematical model platform for optimizing a multiprojection breast imaging system. <i>Medical Physics</i> , 2008, 35, 1337-1345.	3.0	41
98	Comparative Scatter and Dose Performance of Slot-Scan and Full-Field Digital Chest Radiography Systems. <i>Radiology</i> , 2005, 235, 940-949.	7.3	40
99	Resolution and noise measurements of five CRT and LCD medical displays. <i>Medical Physics</i> , 2006, 33, 308-319.	3.0	40
100	The Effect of Contrast Material on Radiation Dose at CT: Part I. Incorporation of Contrast Material Dynamics in Anthropomorphic Phantoms. <i>Radiology</i> , 2017, 283, 739-748.	7.3	40
101	Patient-specific dose estimation for pediatric chest CT. <i>Medical Physics</i> , 2008, 35, 5821-5828.	3.0	39
102	The effect of breast compression on mass conspicuity in digital mammography. <i>Medical Physics</i> , 2008, 35, 4464-4473.	3.0	38
103	Medical imaging dose optimisation from ground up: expert opinion of an international summit. <i>Journal of Radiological Protection</i> , 2018, 38, 967-989.	1.1	38
104	Automated breast mass detection in 3D reconstructed tomosynthesis volumes: A featureless approach. <i>Medical Physics</i> , 2008, 35, 3626-3636.	3.0	37
105	The impact on CT dose of the variability in tube current modulation technology: a theoretical investigation. <i>Physics in Medicine and Biology</i> , 2014, 59, 4525-4548.	3.0	37
106	Effect of dose reduction on the detection of mammographic lesions: A mathematical observer model analysis. <i>Medical Physics</i> , 2007, 34, 3385-3398.	3.0	36
107	Dose coefficients in pediatric and adult abdominopelvic CT based on 100 patient models. <i>Physics in Medicine and Biology</i> , 2013, 58, 8755-8768.	3.0	36
108	CT Radiomic Features of Superior Mesenteric Artery Involvement in Pancreatic Ductal Adenocarcinoma: A Pilot Study. <i>Radiology</i> , 2021, 301, 610-622.	7.3	36

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109	Expanding the Concept of Diagnostic Reference Levels to Noise and Dose Reference Levels in CT. American Journal of Roentgenology, 2019, 213, 889-894.	2.2	34
110	Population of 224 realistic human subject-based computational breast phantoms. Medical Physics, 2015, 43, 23-32.	3.0	33
111	Patient-specific quantification of image quality: An automated technique for measuring the distribution of organ Hounsfield units in clinical chest CT images. Medical Physics, 2017, 44, 4736-4746.	3.0	33
112	Comparison of Low Dose Performance of Photon-Counting and Energy Integrating CT. Academic Radiology, 2021, 28, 1754-1760.	2.5	33
113	Digital Mammography Image Quality: Image Display. Journal of the American College of Radiology, 2006, 3, 615-627.	1.8	32
114	Imaging properties of digital magnification radiography. Medical Physics, 2006, 33, 984-996.	3.0	32
115	A technique optimization protocol and the potential for dose reduction in digital mammography. Medical Physics, 2010, 37, 962-969.	3.0	32
116	Quantitative CT: technique dependence of volume estimation on pulmonary nodules. Physics in Medicine and Biology, 2012, 57, 1335-1348.	3.0	32
117	Clinical impact of an adaptive statistical iterative reconstruction algorithm for detection of hypervascular liver tumours using a low tube voltage, high tube current MDCT technique. European Radiology, 2013, 23, 3325-3335.	4.5	32
118	Comparison of patient specific dose metrics between chest radiography, tomosynthesis, and CT for adult patients of wide ranging body habitus. Medical Physics, 2014, 41, 023901.	3.0	32
119	Development and Application of a Suite of 4-D Virtual Breast Phantoms for Optimization and Evaluation of Breast Imaging Systems. IEEE Transactions on Medical Imaging, 2014, 33, 1401-1409.	8.9	32
120	A set of 4D pediatric XCAT reference phantoms for multimodality research. Medical Physics, 2014, 41, 033701.	3.0	32
121	Object detectability at increased ambient lighting conditions. Medical Physics, 2008, 35, 2204-2213.	3.0	31
122	Estimation of Radiation Exposure for Brain Perfusion CT: Standard Protocol Compared With Deviations in Protocol. American Journal of Roentgenology, 2013, 201, W730-W734.	2.2	31
123	Three-dimensional simulation of lung nodules for paediatric multidetector array CT. British Journal of Radiology, 2009, 82, 401-411.	2.2	29
124	Assessing task performance in FFDM, DBT, and synthetic mammography using uniform and anthropomorphic physical phantoms. Medical Physics, 2016, 43, 5593-5602.	3.0	29
125	Modeling Textured Bones in Virtual Human Phantoms. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 47-53.	3.7	29
126	How accurate and precise are CT based measurements of iodine concentration? A comparison of the minimum detectable concentration difference among single source and dual source dual energy CT in a phantom study. European Radiology, 2019, 29, 2069-2078.	4.5	29

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127	U.S. Diagnostic Reference Levels and Achievable Doses for 10 Pediatric CT Examinations. <i>Radiology</i> , 2022, 302, 164-174.	7.3	29
128	Pediatric MDCT. <i>Academic Radiology</i> , 2009, 16, 872-880.	2.5	28
129	Mass detection on mammograms: influence of signal shape uncertainty on human and model observers. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2009, 26, 425.	1.5	28
130	An efficient polyenergetic SART (pSART) reconstruction algorithm for quantitative myocardial CT perfusion. <i>Medical Physics</i> , 2014, 41, 021911.	3.0	27
131	Accurate assessment and prediction of noise in clinical CT images. <i>Medical Physics</i> , 2015, 43, 475-482.	3.0	27
132	Finite-element modeling of compression and gravity on a population of breast phantoms for multimodality imaging simulation. <i>Medical Physics</i> , 2016, 43, 2207-2217.	3.0	27
133	Correlation between human detection accuracy and observer model-based image quality metrics in computed tomography. <i>Journal of Medical Imaging</i> , 2016, 3, 1.	1.5	27
134	Three-dimensionally-printed anthropomorphic physical phantom for mammography and digital breast tomosynthesis with custom materials, lesions, and uniform quality control region. <i>Journal of Medical Imaging</i> , 2019, 6, 1.	1.5	27
135	Dual-energy contrast-enhanced breast tomosynthesis: optimization of beam quality for dose and image quality. <i>Physics in Medicine and Biology</i> , 2011, 56, 6359-6378.	3.0	26
136	Awareness of medical radiation exposure among patients: A patient survey as a first step for effective communication of ionizing radiation risks. <i>Physica Medica</i> , 2017, 43, 57-62.	0.7	26
137	Special Section Guest Editorial: Special Section on 3D Printing in Medical Imaging. <i>Journal of Medical Imaging</i> , 2019, 6, 1.	1.5	26
138	Initial study of quasi-monochromatic X-ray beam performance for X-ray computed mamotomography. <i>IEEE Transactions on Nuclear Science</i> , 2005, 52, 1243-1250.	2.0	25
139	Contrast-detail analysis of three flat panel detectors for digital radiography. <i>Medical Physics</i> , 2006, 33, 1707-1719.	3.0	25
140	Prospective estimation of organ dose in CT under tube current modulation. <i>Medical Physics</i> , 2015, 42, 1575-1585.	3.0	25
141	Redefining and reinvigorating the role of physics in clinical medicine: A Report from the <sc>AAPM</sc> Medical Physics 3.0 Ad Hoc Committee. <i>Medical Physics</i> , 2018, 45, e783.	3.0	25
142	Evaluation of Coronary Plaques and Stents with Conventional and Photon-counting CT: Benefits of High-Resolution Photon-counting CT. <i>Radiology: Cardiothoracic Imaging</i> , 2021, 3, e210102.	2.5	25
143	Evaluation of a flat panel digital radiographic system for low-dose portable imaging of neonates. <i>Medical Physics</i> , 2003, 30, 601-607.	3.0	24
144	The Effects of Ambient Lighting in Chest Radiology Reading Rooms. <i>Journal of Digital Imaging</i> , 2012, 25, 520-526.	2.9	24

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145	Evaluation of Low-Contrast Detectability of Iterative Reconstruction across Multiple Institutions, CT Scanner Manufacturers, and Radiation Exposure Levels. <i>Radiology</i> , 2015, 277, 124-133.	7.3	24
146	Predictive models for observer performance in CT: applications in protocol optimization. <i>Proceedings of SPIE</i> , 2011, , .	0.8	23
147	Patient dose monitoring and the use of diagnostic reference levels for the optimization of protection in medical imaging: current status and challenges worldwide. <i>Journal of Medical Imaging</i> , 2017, 4, 1.	1.5	23
148	Assessment of flat panel LCD primary class display performance based on AAPM TG 18 acceptance protocol. <i>Medical Physics</i> , 2004, 31, 2155-2164.	3.0	22
149	Measurement of the detective quantum efficiency in digital detectors consistent with the IEC 62220-1 standard: Practical considerations regarding the choice of filter material. <i>Medical Physics</i> , 2005, 32, 2305-2311.	3.0	22
150	Simulation of Liver Lesions for Pediatric CT. <i>Radiology</i> , 2006, 238, 699-705.	7.3	22
151	Tomographic digital subtraction angiography for lung perfusion estimation in rodents. <i>Medical Physics</i> , 2007, 34, 1546-1555.	3.0	22
152	Effective dose efficiency: an application-specific metric of quality and dose for digital radiography. <i>Physics in Medicine and Biology</i> , 2011, 56, 5099-5118.	3.0	22
153	Effect of gadolinium chelate contrast agents on diffusion weighted MR imaging of the liver, spleen, pancreas and kidney at 3T. <i>European Journal of Radiology</i> , 2011, 80, e1-e7.	2.6	22
154	Task-based strategy for optimized contrast enhanced breast imaging: Analysis of six imaging techniques for mammography and tomosynthesis. <i>Medical Physics</i> , 2014, 41, 061908.	3.0	22
155	Convolution-based estimation of organ dose in tube current modulated CT. <i>Physics in Medicine and Biology</i> , 2016, 61, 3935-3954.	3.0	22
156	Quantitative breast tomosynthesis: From detectability to estimability. <i>Medical Physics</i> , 2010, 37, 6157-6165.	3.0	21
157	Review of Technical Advancements and Clinical Applications of Photon-counting Computed Tomography in Imaging of the Thorax. <i>Journal of Thoracic Imaging</i> , 2021, 36, 84-94.	1.5	21
158		3.0	20
159	Comparative performance of multiview stereoscopic and mammographic display modalities for breast lesion detection. <i>Medical Physics</i> , 2011, 38, 1972-1980.	3.0	20
160	An image-based technique to assess the perceptual quality of clinical chest radiographs. <i>Medical Physics</i> , 2012, 39, 7019-7031.	3.0	20
161	Effect of deep learning image reconstruction in the prediction of resectability of pancreatic cancer: Diagnostic performance and reader confidence. <i>European Journal of Radiology</i> , 2021, 141, 109825.	2.6	20
162	Impact of resolution and noise characteristics of digital radiographic detectors on the detectability of lung nodules. <i>Medical Physics</i> , 2004, 31, 1603-1613.	3.0	19

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163	Optimized radiographic spectra for small animal digital subtraction angiography. <i>Medical Physics</i> , 2006, 33, 4249-4257.	3.0	19
164	Multiprojection Correlation Imaging for Improved Detection of Pulmonary Nodules. <i>American Journal of Roentgenology</i> , 2007, 188, 1239-1245.	2.2	19
165	Precision of Iodine Quantification in Hepatic CT: Effects of Iterative Reconstruction With Various Imaging Parameters. <i>American Journal of Roentgenology</i> , 2013, 200, W475-W482.	2.2	19
166	DQE of wireless digital detectors: Comparative performance with differing filtration schemes. <i>Medical Physics</i> , 2013, 40, 081910.	3.0	19
167	Automated characterization of perceptual quality of clinical chest radiographs: Validation and calibration to observer preference. <i>Medical Physics</i> , 2014, 41, 111918.	3.0	19
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