Ehsan Samei

List of Publications by Year
in descending order

633	13,156	25423	42259
papers	citations	59 h-index	96 g-index

666	666	666	7339
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	U.S. Diagnostic Reference Levels and Achievable Doses for 10 Pediatric CT Examinations. Radiology, 2022, 302, 164-174.	3.6	29
2	Medical Physics 3.0 and Its Relevance to Radiology. Journal of the American College of Radiology, 2022, 19, 13-19.	0.9	2
3	Classification of Multiple Diseases on Body CT Scans Using Weakly Supervised Deep Learning. Radiology: Artificial Intelligence, 2022, 4, e210026.	3.0	6
4	Reduced-Dose Deep Learning Reconstruction for Abdominal CT of Liver Metastases. Radiology, 2022, 303, 90-98.	3.6	45
5	Medical physics 3.0: A renewed model for practicing medical physics in clinical imaging. Physica Medica, 2022, 94, 53-57.	0.4	3
6	Corrections to â€œiPhantom: A Framework for Automated Creation of Individualized Computational Phantoms and its Application to CT Organ Dosimetryâ€•[Aug 21 3061-3072]. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 478-478.	3.9	0
7	Quantitative analysis of changes in lung density by dynamic chest radiography in association with CT values: a virtual imaging study and initial clinical corroboration. Radiological Physics and Technology, 2022, 15, 45.	1.0	0
8	Anatomically and physiologically informed computational model of hepatic contrast perfusion for virtual imaging trials. Medical Physics, 2022, 49, 2938-2951.	1.6	7
9	Technical Note: Controlling the attenuation of 3Dâ€printed physical phantoms for computed tomography with a single material. Medical Physics, 2022, , .	1.6	1
10	Science and practice of imaging physics through 50 years of SPIE Medical Imaging conferences. Journal of Medical Imaging, 2022, 9, 012205.	0.8	2
11	Generative learning approach for radiation dose reduction in Xâ€ray guided cardiac interventions. Medical Physics, 2022, 49, 4071-4081.	1.6	2
12	Comparing two different noise magnitude estimation methods in CT using virtual imaging trials. , 2022, , .		0
13	Virtual versus reality: external validation of COVID-19 classifiers using XCAT phantoms for chest radiography. , 2022, , .		0
14	Optimization of imaging parameters of an investigational photon-counting CT prototype for lung lesion radiomics. , 2022, , .		0
15	Inter- and intra-scan variability for lung imaging quantifications via CT. , 2022, 12031, .		0
16	Development and validation of a generic image-based noise addition software for simulating reduced dose computed tomography images using synthetic projections. , 2022, , .		1
17	Scanner-specific validation of a CT simulator using a COPD-emulated anthropomorphic phantom. , 2022, 12031, .		1
18	Photon-counting CT versus conventional CT for COPD quantifications: intra-scanner optimization and inter-scanner assessments using virtual imaging trials. , 2022, 12031, .		3

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19	Development and clinical applications of a virtual imaging framework for optimizing photon-counting CT. , 2022, , .		5
20	Virtual versus reality: external validation of COVID-19 classifiers using XCAT phantoms for chest computed tomography. , 2022, , .		0
21	Optimization of imaging conditions in pediatric dynamic chest radiography: a virtual imaging trial. , 2022, , .		0
22	Quality or quantity: toward a unified approach for multi-organ segmentation in body CT. , 2022, , .		0
23	A GPUâ€accelerated framework for individualized estimation of organ doses in digital tomosynthesis. Medical Physics, 2022, 49, 891-900.	1.6	2
24	Variability of quantitative measurements of metastatic liver lesions: a multi-radiation-dose-level and multi-reader comparison. Abdominal Radiology, 2021, 46, 226-236.	1.0	3
25	Patient-based Performance Assessment for Pediatric Abdominal CT: An Automated Monitoring System Based on Lesion Detectability and Radiation Dose. Academic Radiology, 2021, 28, 217-224.	1.3	5
26	Minimum perceivable size difference: how well can radiologists visually detect a change in lung nodule size from CT images?. European Radiology, 2021, 31, 1947-1955.	2.3	6
27	A Clinically Driven Task-Based Comparison of Photon Counting and Conventional Energy Integrating CT for Soft Tissue, Vascular, and High-Resolution Tasks. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 588-595.	2.7	6
28	Virtual Imaging Trials for Coronavirus Disease (COVID-19). American Journal of Roentgenology, 2021, 216, 362-368.	1.0	9
29	Task-dependent estimability index to assess the quality of cardiac computed tomography angiography for quantifying coronary stenosis. Journal of Medical Imaging, 2021, 8, 013501.	0.8	2
30	Clinical concordance with Image Gently guidelines for pediatric computed tomography: a study across 663,417 CT scans at 53 clinical facilities. Pediatric Radiology, 2021, 51, 800-810.	1.1	5
31	Review of Technical Advancements and Clinical Applications of Photon-counting Computed Tomography in Imaging of the Thorax. Journal of Thoracic Imaging, 2021, 36, 84-94.	0.8	21
32	Structured mentorship program for the ABR international medical graduates alternate pathway for medical physicists in diagnostic imaging. Journal of Applied Clinical Medical Physics, 2021, 22, 351-353.	0.8	0
33	iPhantom: an automated framework in generating personalized computational phantoms for organ-based radiation dosimetry. , 2021, , .		1
34	Comparison of 12 surrogates to characterize CT radiation risk across a clinical population. European Radiology, 2021, 31, 7022-7030.	2.3	16
35	Optimization of CT angiography using physiologically informed computational plaques, dynamic XCAT phantoms, and physics-based CT simulation. , 2021, , .		1
36	A framework to simulate CT images with tube current modulation. , 2021, , .		2

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37	Automated patient-specific and organ-based image quality metrics on dual-energy CT datasets for large scale studies. , 2021, , .		0
38	A probabilistic conditional adversarial neural network to reduce imaging variation in radiography. , 2021, , .		1
39	COPD quantifications via CT imaging: ascertaining the effects of acquisition protocol using virtual imaging trial. , 2021, , .		4
40	An analysis of radiomics features in lung lesions in COVID-19. , 2021, , .		0
41	Estimation of in vivo noise in clinical CT images: comparison and validation of three different methods against ensemble noise gold-standard. , 2021, , .		0
42	Correlation of respiratory changes in lung density on dynamic chest radiographs with changes in the CT value: a computational phantom study. , 2021, , .		0
43	Estimation of lung volume changes from frontal and lateral views of dynamic chest radiography using a convolutional neural network model: a computational phantom study. , 2021, , .		0
44	Classification of COVID-19 in chest radiographs: assessing the impact of imaging parameters using clinical and simulated images. , 2021, , .		1
45	Multi-factorial optimization of imaging parameters for quantifying coronary stenosis in cardiac CT. , 2021, , .		1
46	An experimental evaluation of material separability in photon-counting CT. , 2021, , .		0
47	Multivariate SNR in spectral computed tomography. , 2021, , .		0
48	Cell and extracellular matrix growth theory and its implications for tumorigenesis. BioSystems, 2021, 201, 104331.	0.9	6
49	Assessment of pleural invasion and adhesion of lung tumors with dynamic chest radiography: A virtual clinical imaging study. Medical Physics, 2021, 48, 1616-1623.	1.6	5
50	Patient-Informed Organ Dose Estimation in Clinical CT: Implementation and Effective Dose Assessment in 1048 Clinical Patients. American Journal of Roentgenology, 2021, 216, 824-834.	1.0	15
51	Variability in image quality and radiation dose within and across 97 medical facilities. Journal of Medical Imaging, 2021, 8, 052105.	0.8	6
52	Correction for Systematic Bias in Radiomics Measurements Due to Variation in Imaging Protocols. Academic Radiology, 2021, , .	1.3	0
53	Effect of deep learning image reconstruction in the prediction of resectability of pancreatic cancer: Diagnostic performance and reader confidence. European Journal of Radiology, 2021, 141, 109825.	1.2	20
54	iPhantom: A Framework for Automated Creation of Individualized Computational Phantoms and Its Application to CT Organ Dosimetry. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3061-3072.	3.9	15

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55	CT Radiomic Features of Superior Mesenteric Artery Involvement in Pancreatic Ductal Adenocarcinoma: A Pilot Study. Radiology, 2021, 301, 610-622.	3.6	36
56	Design and implementation of a practical quality control program for dualâ€energy CT. Journal of Applied Clinical Medical Physics, 2021, 22, 249-260.	0.8	6
57	A scanner-specific framework for simulating CT images with tube current modulation. Physics in Medicine and Biology, 2021, 66, 185010.	1.6	10
58	Comparison of Low Dose Performance of Photon-Counting and Energy Integrating CT. Academic Radiology, 2021, 28, 1754-1760.	1.3	33
59	Development and validation of an automated methodology to assess perceptual in vivo noise texture in liver CT. Journal of Medical Imaging, 2021, 8, 052113.	0.8	4
60	Evaluation of Coronary Plaques and Stents with Conventional and Photon-counting CT: Benefits of High-Resolution Photon-counting CT. Radiology: Cardiothoracic Imaging, 2021, 3, e210102.	0.9	25
61	Development, validation, and relevance of in vivo lowâ€contrast task transfer function to estimate detectability in clinical CT images. Medical Physics, 2021, 48, 7698.	1.6	0
62	Patient Communication for Medical Physicists. Journal of the American College of Radiology, 2021, 18, 1601-1604.	0.9	2
63	Key Performance Indicators for Quality Imaging Practice: Why, What, and How. Journal of the American College of Radiology, 2021, , .	0.9	2
64	Deep learning classification of COVID-19 in chest radiographs: performance and influence of supplemental training. Journal of Medical Imaging, 2021, 8, 064501.	0.8	1
65	Correlation of Algorithmic and Visual Assessment of Lesion Detection in Clinical Images. Academic Radiology, 2020, 27, 847-855.	1.3	7
66	Impact of Colorized Display of Mammograms on Lesion Detection. Journal of Breast Imaging, 2020, 2, 22-28.	0.5	1
67	Noise and spatial resolution properties of a commercially available deep learningâ€based CT reconstruction algorithm. Medical Physics, 2020, 47, 3961-3971.	1.6	113
68	Is regulatory compliance enough to ensure excellence in medicine?. Radiologia Medica, 2020, 125, 904-905.	4.7	12
69	A database of 40 patientâ€based computational models for benchmarking organ dose estimates in CT. Medical Physics, 2020, 47, 6562-6566.	1.6	5
70	Technical Note: Validation of TG 233 phantom methodology to characterize noise and dose in patient CT data. Medical Physics, 2020, 47, 1633-1639.	1.6	12
71	Automated quality control in nuclear medicine using the structured noise index. Journal of Applied Clinical Medical Physics, 2020, 21, 80-86.	0.8	1
72	Quantification of Minimum Detectable Difference in Radiomics Features Across Lesions and CT Imaging Conditions. Academic Radiology, 2020, 28, 1570-1581.	1.3	2

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73	A comparison of COVID-19 and imaging radiation risk in clinical patient populations. Journal of Radiological Protection, 2020, , .	0.6	5
74	Virtual Clinical Trials: Why and What (Special Section Guest Editorial). Journal of Medical Imaging, 2020, 7, 1.	0.8	9
75	Virtual clinical trials in medical imaging: a review. Journal of Medical Imaging, 2020, 7, 1.	0.8	93
76	CT Performance Optimization. , 2020, , 143-164.		0
77	CT-Based Quantification. , 2020, , 289-304.		0
78	CT Practice Monitoring. , 2020, , 199-220.		0
79	A method to assess the performance and the relevance of segmentation in radiomic characterization. , 2020, , .		0
80	CT phantom with 3D anthropomorphic, contrast-enhanced texture. , 2020, , .		0
81	In vivo noise texture estimation: development and validation of an automated methodology. , 2020, , .		2
82	Virtual clinical trial for quantifying the effects of beam collimation and pitch on image quality in computed tomography. Journal of Medical Imaging, 2020, 7, 1.	0.8	2
83	Prediction of pleural invasion of lung cancer with dynamic chest radiography: a simulation study. , 2020, , .		0
84	Virtual imaging trials: an emerging experimental paradigm in imaging research and practice. , 2020, , .		4
85	Optimization of energy thresholds in photon-counting CT via a virtual clinical trial. , 2020, , .		2
86	Automatic phantom test pattern classification through transfer learning with deep neural networks. , 2020, , .		0
87	Patient-informed modelling of hepatic contrast dynamics in contrast-enhanced CT imaging. , 2020, , .		0
88	Hallway Conversations in Physics. American Journal of Roentgenology, 2020, 215, W50-W52.	1.0	4
89	Modeling Patient-Informed Liver Contrast Perfusion in Contrast-enhanced Computed Tomography. Journal of Computer Assisted Tomography, 2020, 44, 882-886.	0.5	1
90	Performance evaluation of computed tomography systems: Summary of AAPM Task Group 233. Medical Physics, 2019, 46, e735-e756.	1.6	148

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91	A Simulation Paradigm for Evaluation of Subtle Liver Lesions at Pediatric CT: Performance and Confidence. Radiology Imaging Cancer, 2019, 1, e190027.	0.7	1
92	Validation of algorithmic CT image quality metrics with preferences of radiologists. Medical Physics, 2019, 46, 4837-4846.	1.6	18
93	Why physics in medicine?. Physica Medica, 2019, 64, 319-322.	0.4	4
94	A real-time Monte Carlo tool for individualized dose estimations in clinical CT. Physics in Medicine and Biology, 2019, 64, 215020.	1.6	18
95	Organ doses from CT localizer radiographs: Development, validation, and application of a Monte Carlo estimation technique. Medical Physics, 2019, 46, 5262-5272.	1.6	11
96	Development of a scanner-specific simulation framework for photon-counting computed tomography. Biomedical Physics and Engineering Express, 2019, 5, 055008.	0.6	14
97	Reproducibility of CT Radiomic Features within the Same Patient: Influence of Radiation Dose and CT Reconstruction Settings. Radiology, 2019, 293, 583-591.	3.6	172
98	Evaluation of Simulated Lesions as Surrogates to Clinical Lesions for Thoracic CT Volumetry: The Results of an International Challenge. Academic Radiology, 2019, 26, e161-e173.	1.3	4
99	Validation of lesion simulations in clinical CT data for anonymized chest and abdominal CT databases. Medical Physics, 2019, 46, 1931-1937.	1.6	2
100	High-Pitch Wide-Coverage Fast-Kilovoltage-Switching Dual-Energy CT: Impact of Pitch on Noise, Spatial Resolution, and Iodine Quantification in a Phantom Study. American Journal of Roentgenology, 2019, 212, W64-W72.	1.0	8
101	Can Realistic Liver Tissue Surrogates Accurately Quantify the Impact of Reduced-kV Imaging on Attenuation and Contrast of Parenchyma and Lesions?. Academic Radiology, 2019, 26, 640-650.	1.3	2
102	Automation, regulation, and collaboration: Threats and opportunities for clinical medical physics careers in diagnostic imaging and nuclear medicine. Journal of Applied Clinical Medical Physics, 2019, 20, 4-6.	0.8	1
103	Expanding the Concept of Diagnostic Reference Levels to Noise and Dose Reference Levels in CT. American Journal of Roentgenology, 2019, 213, 889-894.	1.0	34
104	Imaging Operation and Infrastructure. , 2019, , 181-216.		0
105	Volumetric X-ray Imaging. , 2019, , 243-269.		0
106	Virtual Unenhanced Images at Dual-Energy CT: Influence on Renal Lesion Characterization. Radiology, 2019, 291, 381-390.	3.6	49
107	Automated Early Identification of an Excessive Air-in-Oil X-ray Tube Artifact That Mimics Acute Cerebral Infarct. Journal of Computer Assisted Tomography, 2019, 43, 18-21.	0.5	1
108	Medical Physics 3.0: Ensuring Quality and Safety in Medical Imaging. Health Physics, 2019, 116, 247-255.	0.3	2

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109	Improved Dose Estimates for Fluoroscopically Guided Lumbar Epidural Injections. Pain Medicine, 2019, 20, 971-978.	0.9	0
110	The Need for Practical and Accurate Measures of Value for Radiology. Journal of the American College of Radiology, 2019, 16, 810-813.	0.9	7
111	Detection of Colorectal Hepatic Metastases Is Superior at Standard Radiation Dose CT versus Reduced Dose CT. Radiology, 2019, 290, 400-409.	3.6	69
112	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?. American Journal of Roentgenology, 2019, 212, 554-561.	1.0	44
113	DukeSim: A Realistic, Rapid, and Scanner-Specific Simulation Framework in Computed Tomography. IEEE Transactions on Medical Imaging, 2019, 38, 1457-1465.	5.4	49
114	Modeling â€œTexturedâ€•Bones in Virtual Human Phantoms. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 47-53.	2.7	29
115	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.	2.3	29
116	Incorporation of the Living Heart Model Into the 4-D XCAT Phantom for Cardiac Imaging Research. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 54-60.	2.7	13
117	Systematic analysis of bias and variability of morphologic features for lung lesions in computed tomography. Journal of Medical Imaging, 2019, 6, 1.	0.8	9
118	Three-dimensionally-printed anthropomorphic physical phantom for mammography and digital breast tomosynthesis with custom materials, lesions, and uniform quality control region. Journal of Medical Imaging, 2019, 6, 1.	0.8	27
119	Design and fabrication of heterogeneous lung nodule phantoms for assessing the accuracy and variability of measured texture radiomics features in CT. Journal of Medical Imaging, 2019, 6, 1.	0.8	10
120	Systematic analysis of bias and variability of texture measurements in computed tomography. Journal of Medical Imaging, 2019, 6, 1.	0.8	8
121	Multi-organ segmentation in clinical-computed tomography for patient-specific image quality and dose metrology. , 2019, , .		7
122	Deep learning of 3D CT images for organ segmentation using 2D multi-channel SegNet model. , 2019, , .		3
123	Utilizing deformable image registration to create new living human heart models for imaging simulation. , 2019, , .		2
124	Impact of energy threshold on material quantification of contrast agents in photon-counting CT. , 2019, , .		1
125	Modeling dynamic, nutrient-access-based lesion progression using stochastic processes. , 2019, , .		2
126	Anatomically- and computationally-informed hepatic contrast perfusion simulations for use in virtual clinical trials. , 2019, , .		3

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127	Trade-off between spatial details and motion artifact in multi-detector CT: A virtual clinical trial with 4D textured human models. , 2019, , .		0
128	Controlling the position-dependent contrast of 3D printed physical phantoms with a single material. , 2019, , .		1
129	Quantifying truth-based change in radiomics features between CT imaging conditions. , 2019, , .		1
130	Image quality in photon-counting CT images as a function of energy threshold. , 2019, , .		0
131	Cardiac CT estimability index: an ideal estimator in the presence of noise and motion. , 2019, , .		0
132	A framework for realistic virtual clinical trials in photon counting computed tomography. , 2019, , .		0
133	Patient-informed and physiology-based modelling of contrast dynamics in cross-sectional imaging. , 2019, , .		1
134	A comprehensive GPU-based framework for scatter estimation in single source, dual source, and photon-counting CT. , 2019, , .		1
135	Dynamic chest radiography for pulmonary function diagnosis: A validation study using 4D extended cardiac-torso (XCAT) phantom. , 2019, , .		1
136	Accuracy and variability of radiomics in photon-counting CT: texture features and lung lesion morphology. , 2019, , .		1
137	Using inkjet 3D printing to create contrast-enhanced textured physical phantoms for CT. , 2019, , .		4
138	Special Section Guest Editorial: Special Section on 3D Printing in Medical Imaging. Journal of Medical Imaging, 2019, 6, 1.	0.8	26
139	Modeling Lung Architecture in the XCAT Series of Phantoms: Physiologically Based Airways, Arteries and Veins. IEEE Transactions on Medical Imaging, 2018, 37, 693-702.	5.4	44
140	Interâ€laboratory comparison of channelized hotelling observer computation. Medical Physics, 2018, 45, 3019-3030.	1.6	15
141	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.	1.0	59
142	Clinically Acceptable Optimized Dose Reduction in Computed Tomographic Imaging of Necrotizing Pancreatitis Using a Noise Addition Software Tool. Journal of Computer Assisted Tomography, 2018, 42, 197-203.	0.5	1
143	Application of the 4-D XCAT Phantoms in Biomedical Imaging and Beyond. IEEE Transactions on Medical Imaging, 2018, 37, 680-692.	5.4	65
144	Report of <scp>AAPM</scp> Task Group 162: Software for planar image quality metrology. Medical Physics, 2018, 45, e32-e39.	1.6	11

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145	The First Moments of Medical Image Perception. , 2018, , 188-196.		2
146	Image Quality and Its Clinical Relevance. , 2018, , 197-212.		0
147	Value and Limitations of Observer Models. , 2018, , 300-304.		0
148	Breast Screen Reader Assessment Strategy (BREAST): A Research Infrastructure with a Translational Objective. , 2018, , 343-356.		4
149	Signal Detection in Radiology. , 2018, , 49-75.		1
150	Perceptual Factors in Reading Medical Images. , 2018, , 95-106.		0
151	Cognitive Factors in Reading Medical Images: Thinking Processes in Image Interpretation. , 2018, , 107-120.		0
152	Satisfaction of Search in Radiology. , 2018, , 121-166.		2
153	Memory Effects and Experimental Design. , 2018, , 263-275.		0
154	Perception of Volumetric Data. , 2018, , 307-327.		1
155	Performance Assessment Using Standardized Data Sets: The PERFORMS Scheme in Breast Screening and Other Domains. , 2018, , 328-342.		5
156	CAD: An Image Perception Perspective. , 2018, , 359-373.		0
157	Evaluation of CAD and Radiomic Tools. , 2018, , 389-406.		0
158	Quantitative Imaging: Images to Numbers. , 2018, , 407-414.		2
159	Ergonomics 2.0: Fatigue in Medical Imaging. , 2018, , 483-494.		1
160	Perception Issues in Pathology. , 2018, , 495-505.		0
161	Perception in Context. , 2018, , 82-92.		0
162	Display Optimization from a Physics Perspective. , 2018, , 440-451.		0

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163	Multireader ROC Analysis. , 2018, , 245-262.		0
164	Display Optimization from a Perception Perspective. , 2018, , 452-469.		0
165	Receiver Operating Characteristic Analysis: Basic Concepts and Practical Applications. , 2018, , 227-244.		2
166	Optimization of 2D and 3D Radiographic Imaging Systems. , 2018, , 417-439.		1
167	Implementation of Observer Models. , 2018, , 289-299.		0
168	Medical Image Perception. , 2018, , 1-8.		0
169	A Short History of Image Perception in Medical Radiology. , 2018, , 11-22.		1
170	Spatial Vision Research without Noise. , 2018, , 23-27.		0
171	Signal Detection Theory: A Brief History. , 2018, , 28-48.		3
172	Lessons from Dinners with the Giants of Modern Image Science*. , 2018, , 76-81.		0
173	Acquiring Expertise in Radiologic Image Interpretation. , 2018, , 167-187.		2
174	Designing Perception Experiments. , 2018, , 215-226.		0
175	Observer Models as a Surrogate to Perception Experiments. , 2018, , 276-288.		0
176	Common Designs of CAD Studies. , 2018, , 374-388.		0
177	Perception and Training. , 2018, , 470-482.		1
178	Medical Image Perception from a Clinical Perspective. , 2018, , 506-512.		0
179	Future of Medical Image Perception. , 2018, , 513-516.		0
180	Medical Physics 3.0, physics for every patient. Journal of Applied Clinical Medical Physics, 2018, 19, 4-5.	0.8	3

#	Article	IF	Citations
181	Dependency of prescribed CT dose on table height, patient size, and localizer acquisition for one clinical MDCT. Physica Medica, 2018, 55, 56-60.	0.4	7
182	3D taskâ€transfer function representation of the signal transfer properties of lowâ€contrast lesions in FBPâ€and iterativeâ€reconstructed CT. Medical Physics, 2018, 45, 4977-4985.	1.6	11
183	Medical physics 3.0 versus 1.0: A case study in digital radiography quality control. Journal of Applied Clinical Medical Physics, 2018, 19, 694-707.	0.8	1
184	Why Physics in Medicine?. Journal of the American College of Radiology, 2018, 15, 1008-1012.	0.9	6
185	Medical imaging dose optimisation from ground up: expert opinion of an international summit. Journal of Radiological Protection, 2018, 38, 967-989.	0.6	38
186	Automated quality control assessment of clinical chest images. Medical Physics, 2018, 45, 4377-4391.	1.6	10
187	Redefining and reinvigorating the role of physics in clinical medicine: AÂReport from the <scp>AAPM</scp> Medical Physics 3.0 Ad Hoc Committee. Medical Physics, 2018, 45, e783.	1.6	25
188	Local complexity metrics to quantify the effect of anatomical noise on detectability of lung nodules in chest CT imaging. Journal of Medical Imaging, 2018, 5, 1.	0.8	6
189	3D printed anthropomorphic physical phantom for mammography and DBT with high contrast custom materials, lesions and uniform chest wall region. , 2018, , .		2
190	Can a 3D task transfer function accurately represent the signal transfer properties of low-contrast lesions in non-linear CT systems?. , 2018, , .		2
191	How reliable are texture measurements?. , 2018, , .		4
192	Virtual clinical trial in action: textured XCAT phantoms and scanner-specific CT simulator to characterize noise across CT reconstruction algorithms. , 2018, , .		3
193	From patient-informed to patient-specific organ dose estimation in clinical computed tomography. , 2018, , .		6
194	A rapid GPU-based Monte-Carlo simulation tool for individualized dose estimations in CT. , 2018, , .		6
195	Quantification of uncertainty in the assessment of coronary plaque in CCTA through a dynamic cardiac phantom and 3D-printed plaque model. Journal of Medical Imaging, 2018, 5, 1.	0.8	5
196	Variability of stenosis characterization: impact of coronary vessel motion in cardiac CT. , 2018, , .		1
197	Realistic lesion simulation: application of hyperelastic deformation to lesion-local environment in lung CT. , 2018, , .		2
198	Bias and variability in morphology features of lung lesions across CT imaging conditions. , 2018, , .		1

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199	Development of a fast, voxel-based, and scanner-specific CT simulator for image-quality-based virtual clinical trials. , 2018, , .		4
200	Interchangeability between real and three-dimensional simulated lung tumors in computed tomography: an interalgorithm volumetry study. Journal of Medical Imaging, 2018, 5, 1.	0.8	2
201	The Effect of Contrast Material on Radiation Dose at CT: Part I. Incorporation of Contrast Material Dynamics in Anthropomorphic Phantoms. Radiology, 2017, 283, 739-748.	3.6	40
202	Size-specific optimization of CT protocols based on minimum detectability. Medical Physics, 2017, 44, 1301-1311.	1.6	15
203	Image noise and dose performance across a clinical population: Patient size adaptation as a metric of CT performance. Medical Physics, 2017, 44, 2141-2147.	1.6	19
204	An atlas-based organ dose estimator for tomosynthesis and radiography. Proceedings of SPIE, 2017, , .	0.8	0
205	In-vivo detectability index: development and validation of an automated methodology. Proceedings of SPIE, 2017, , .	0.8	0
206	Comparison of effects of dose on image quality in digital breast tomosynthesis across multiple vendors. , 2017, , .		0
207	Improved virtual cardiac phantom with variable diastolic filling rates and coronary artery velocities. Proceedings of SPIE, 2017, , .	0.8	0
208	Quantification of the uncertainty in coronary CTA plaque measurements using dynamic cardiac phantom and 3D-printed plaque models. , 2017, , .		0
209	Accuracy and variability of texture-based radiomics features of lung lesions across CT imaging conditions. Proceedings of SPIE, 2017, , .	0.8	5
210	Third generation anthropomorphic physical phantom for mammography and DBT: incorporating voxelized 3D printing and uniform chest wall QC region. Proceedings of SPIE, 2017, , .	0.8	6
211	Adaptability index: quantifying CT tube current modulation performance from dose and quality informatics. , 2017, , .		0
212	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 Modelâ€“based Iterative Reconstruction Algorithm. Radiology, 2017, 284, 777-787.	3.6	84
213	Variability in Radiation Dose From Repeat Identical CT Examinations: Longitudinal Analysis of 2851 Patients Undergoing 12,635 Thoracoabdominal CT Scans in an Academic Health System. American Journal of Roentgenology, 2017, 208, 1285-1296.	1.0	11
214	Automated, patient-specific estimation of regional imparted energy and dose from tube current modulated computed tomography exams across 13 protocols. Journal of Medical Imaging, 2017, 21, 013503.	0.8	4
215	Airways, vasculature, and interstitial tissue: anatomically informed computational modeling of human lungs for virtual clinical trials. Proceedings of SPIE, 2017, , .	0.8	7
216	Accuracy assessment and characterization of x-ray coded aperture coherent scatter spectral imaging for breast cancer classification. Journal of Medical Imaging, 2017, 4, 013505.	0.8	2

#	Article	IF	Citations
217	The Effect of Contrast Material on Radiation Dose at CT: Part II. A Systematic Evaluation across 58 Patient Models. Radiology, 2017, 283, 749-757.	3.6	59
218	<scp>CT</scp> breast dose reduction with the use of breast positioning and organâ€based tube current modulation. Medical Physics, 2017, 44, 665-678.	1.6	17
219	Dual-Source Single-Energy Multidetector CT Used to Obtain Multiple Radiation Exposure Levels within the Same Patient: Phantom Development and Clinical Validation. Radiology, 2017, 283, 526-537.	3.6	11
220	Radiation risk index for pediatric CT: a patient-derived metric. Pediatric Radiology, 2017, 47, 1737-1744.	1.1	18
221	A method for characterizing and matching <scp>CT</scp> image quality across <scp>CT</scp> scanners from different manufacturers. Medical Physics, 2017, 44, 5705-5717.	1.6	16
222	Optimizing window settings for improved presentation of virtual monoenergetic images in dualâ€energy computed tomography. Medical Physics, 2017, 44, 5686-5696.	1.6	10
223	Techniques for virtual lung nodule insertion: volumetric and morphometric comparison of projection-based and image-based methods for quantitative CT. Physics in Medicine and Biology, 2017, 62, 7280-7299.	1.6	12
224	Awareness of medical radiation exposure among patients: A patient survey as a first step for effective communication of ionizing radiation risks. Physica Medica, 2017, 43, 57-62.	0.4	26
225	Estimation of breast dose reduction potential for organ-based tube current modulated CT with wide dose reduction arc. Proceedings of SPIE, 2017, , .	0.8	0
226	Patientâ€specific quantification of image quality: An automated technique for measuring the distribution of organ Hounsfield units in clinical chest <scp>CT</scp> images. Medical Physics, 2017, 44, 4736-4746.	1.6	33
227	Hallway Conversations in Physics.. American Journal of Roentgenology, 2017, 208, W24-W27.	1.0	3
228	Effect of Iodine-based Contrast Material on Radiation Dose at CT. Radiology, 2017, 285, 1053-1054.	3.6	0
229	Patient dose monitoring and the use of diagnostic reference levels for the optimization of protection in medical imaging: current status and challenges worldwide. Journal of Medical Imaging, 2017, 4, 1.	0.8	23
230	Breast dose reduction with organ-based, wide-angle tube current modulated CT. Journal of Medical Imaging, 2017, 4, 031208.	0.8	7
231	Special Section Guest Editorial: Visions of Safety: Perspectives on Radiation Exposure and Risk in Medical Imaging. Journal of Medical Imaging, 2017, 4, 1.	0.8	1
232	Size-based quality-informed framework for quantitative optimization of pediatric CT. Journal of Medical Imaging, 2017, 4, 1.	0.8	6
233	Estimating detectability index in vivo: development and validation of an automated methodology. Journal of Medical Imaging, 2017, 5, 1.	0.8	17
234	Inter-algorithm lesion volumetry comparison of real and 3D simulated lung lesions in CT. Proceedings of SPIE, 2017, , .	0.8	2

#	Article	IF	Citations
235	Development of local complexity metrics to quantify the effect of anatomical noise on detectability of lung nodules in chest CT imaging. Proceedings of SPIE, 2017, , .	0.8	1
236	Organ dose variability and trends in tomosynthesis and radiography. Journal of Medical Imaging, 2017, 4, 031207.	0.8	4
237	Estimability index for volume quantification of homogeneous spherical lesions in computed tomography. Journal of Medical Imaging, 2017, 5, 1.	0.8	2
238	Development of a Hausdorff distance based 3D quantification technique to evaluate the CT imaging system impact on depiction of lesion morphology. Proceedings of SPIE, 2016, , .	0.8	0
239	Second generation anthropomorphic physical phantom for mammography and DBT: Incorporating voxelized 3D printing and inkjet printing of iodinated lesion inserts. Proceedings of SPIE, 2016, , .	0.8	9
240	Technical Note: Gray tracking in medical color displays-A report of Task Group 196. Medical Physics, 2016, 43, 4017-4022.	1.6	4
241	Patientâ€specific quantification of image quality: An automated method for measuring spatial resolution in clinical CT images. Medical Physics, 2016, 43, 5330-5338.	1.6	52
242	Finite-element modeling of compression and gravity on a population of breast phantoms for multimodality imaging simulation. Medical Physics, 2016, 43, 2207-2217.	1.6	27
243	Assessing task performance in FFDM, DBT, and synthetic mammography using uniform and anthropomorphic physical phantoms. Medical Physics, 2016, 43, 5593-5602.	1.6	29
244	How does<scp>c</scp>-<scp>view</scp>image quality compare with conventional 2D FFDM?. Medical Physics, 2016, 43, 2538-2547.	1.6	66
245	Comparison of lowâ€contrast detectability between two CT reconstruction algorithms using voxelâ€based 3D printed textured phantoms. Medical Physics, 2016, 43, 6497-6506.	1.6	55
246	A quantitative metrology for performance characterization of five breast tomosynthesis systems based on an anthropomorphic phantom. Medical Physics, 2016, 43, 1627-1638.	1.6	10
247	An automated technique for estimating patient-specific regional imparted energy and dose in TCM CT exams. , 2016, , .		0
248	Comparison of model and human observer performance in FFDM, DBT, and synthetic mammography. Proceedings of SPIE, 2016, , .	0.8	3
249	Convolution-based estimation of organ dose in tube current modulated CT. Physics in Medicine and Biology, 2016, 61, 3935-3954.	1.6	22
250	A technique for multi-dimensional optimization of radiation dose, contrast dose, and image quality in CT imaging. , 2016, , .		0
251	Design, fabrication, and implementation of voxel-based 3D printed textured phantoms for task-based image quality assessment in CT. Proceedings of SPIE, 2016, , .	0.8	2
252	Organ dose conversion coefficients for tube current modulated CT protocols for an adult population. Proceedings of SPIE, 2016, , .	0.8	1

#	Article	IF	Citations
253	Development and comparison of projection and image space 3D nodule insertion techniques. Proceedings of SPIE, 2016, , .	0.8	2
254	Estimation of breast dose saving potential using a breast positioning technique for organ-based tube current modulated CT. Proceedings of SPIE, 2016, , .	0.8	2
255	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. American Journal of Roentgenology, 2016, 206, 1222-1232.	1.0	45
256	Synthesized interstitial lung texture for use in anthropomorphic computational phantoms. Proceedings of SPIE, 2016, , .	0.8	2
257	Quantitative Features of Liver Lesions, Lung Nodules, and Renal Stones at Multiâ€“Detector Row CT Examinations: Dependency on Radiation Dose and Reconstruction Algorithm. Radiology, 2016, 279, 185-194.	3.6	93
258	Coded aperture coherent scatter imaging for breast cancer detection: a Monte Carlo evaluation. Proceedings of SPIE, 2016, , .	0.8	2
259	Design and implementation of coded aperture coherent scatter spectral imaging of cancerous and healthy breast tissue samples. Journal of Medical Imaging, 2016, 3, 013505.	0.8	10
260	Determination of contrast media administration to achieve a targeted contrast enhancement in computed tomography. Journal of Medical Imaging, 2016, 3, 013501.	0.8	5
261	Estimation of Radiation Dose in CT Based on Projection Data. Journal of Digital Imaging, 2016, 29, 615-621.	1.6	1
262	Cutting to the Chase: With So Much Physics â€œStuff,â€•What Do Radiologists Really Need to Know?. American Journal of Roentgenology, 2016, 206, W9-W9.	1.0	6
263	Effects of automatic tube potential selection on radiation dose index, image quality, and lesion detectability in pediatric abdominopelvic CT and CTA: a phantom study. European Radiology, 2016, 26, 157-166.	2.3	10
264	Impact of breast structure on lesion detection in breast tomosynthesis, a simulation study. Journal of Medical Imaging, 2016, 3, 1.	0.8	8
265	Correlation between human detection accuracy and observer model-based image quality metrics in computed tomography. Journal of Medical Imaging, 2016, 3, 1.	0.8	27
266	SU-G-206-13: Validating Dose Split: A Method to Image the Same Patient at Multiple Doses with a Single CT Acquisition. Medical Physics, 2016, 43, 3642-3642.	1.6	1
267	TU-FG-209-07: Medical Physics 1.0 Versus Medical Physics 2.0: A Case Study. Medical Physics, 2016, 43, 3762-3762.	1.6	1
268	TU-H-207A-05: Automated Early Identification of An Excessive Air-In-Oil X-Ray Tube Artifact That Mimics Acute Cerebral Infarct. Medical Physics, 2016, 43, 3772-3772.	1.6	2
269	TH-AB-207A-01: Contrast-Enhanced CT: Correlation of Radiation Dose and Biological Effect. Medical Physics, 2016, 43, 3859-3859.	1.6	2
270	TU-FG-209-06: Quantitative Evaluation of the Temporal Performance of Clinical Fluoroscopic Imaging Systems: The Temporal Modulation Transfer Function (TMTF). Medical Physics, 2016, 43, 3761-3762.	1.6	0

#	Article	IF	Citations
271	TH-CD-207B-04: Is TTF a True Representation of the Sharpness Property of a Non-Linear CT System?. Medical Physics, 2016, 43, 3889-3889.	1.6	0
272	SU-F-R-11: Designing Quality and Safety Informatics Through Implementation of a CT Radiation Dose Monitoring Program. Medical Physics, 2016, 43, 3375-3375.	1.6	0
273	TU-D-207A-02: Quantitative Assessment of CT Systems with Iterative Image Reconstruction Algorithms. Medical Physics, 2016, 43, 3747-3748.	1.6	0
274	TU-H-206-01: An Automated Approach for Identifying Geometric Distortions in Gamma Cameras. Medical Physics, 2016, 43, 3773-3774.	1.6	0
275	TU-H-207A-09: An Automated Technique for Estimating Patient-Specific Regional Imparted Energy and Dose From TCM CT Exams Across 13 Protocols. Medical Physics, 2016, 43, 3773-3773.	1.6	0
276	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.	1.6	160
277	Population of 224 realistic human subject-based computational breast phantoms. Medical Physics, 2015, 43, 23-32.	1.6	33
278	Accurate assessment and prediction of noise in clinical CT images. Medical Physics, 2015, 43, 475-482.	1.6	27
279	The development of a population of 4D pediatric XCAT phantoms for imaging research and optimization. Medical Physics, 2015, 42, 4719-4726.	1.6	46
280	Comment on â€œComparison of patient specific dose metrics between chest radiography, tomosynthesis, and CT for adult patients of wide ranging body habitusâ€•[Med. Phys. 41(2), 023901 (12pp.) (2014)]. Medical Physics, 2015, 42, 2094-2095.	1.6	3
281	Tri-plane correlation imaging for the detection of breast cancer: Effects of angular separation and correlation rule. International Journal of Diagnostic Imaging, 2015, 2, .	0.1	0
282	A Case for Wide-Angle Breast Tomosynthesis. Academic Radiology, 2015, 22, 860-869.	1.3	7
283	An Improved Index of Image Quality for Task-based Performance of CT Iterative Reconstruction across Three Commercial Implementations. Radiology, 2015, 275, 725-734.	3.6	73
284	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. Radiology, 2015, 275, 735-745.	3.6	134
285	A multireader diagnostic performance study of low-contrast detectability on a third-generation dual-source CT scanner: filtered back projection versus advanced modeled iterative reconstruction. , 2015, , .		0
286	Convolution-based estimation of organ dose in tube current modulated CT. Proceedings of SPIE, 2015, , .	0.8	0
287	What observer models best reflect low-contrast detectability in CT?. Proceedings of SPIE, 2015, , .	0.8	5
288	Experimental implementation of coded aperture coherent scatter spectral imaging of cancerous and healthy breast tissue samples. Proceedings of SPIE, 2015, , .	0.8	4

#	Article	IF	Citations
289	The impact of breast structure on lesion detection in breast tomosynthesis. Proceedings of SPIE, 2015, , .	0.8	0
290	A quantitative metrology for performance characterization of breast tomosynthesis systems based on an anthropomorphic phantom. , 2015, , .		0
291	Development of realistic physical breast phantoms matched to virtual breast phantoms based on human subject data. Medical Physics, 2015, 42, 4116-4126.	1.6	86
292	Automated Technique to Measure Noise in Clinical CT Examinations. American Journal of Roentgenology, 2015, 205, W93-W99.	1.0	89
293	Implementation of the ACR Dose Index Registry. Journal of the American College of Radiology, 2015, 12, 312-313.	0.9	4
294	Evaluation of Low-Contrast Detectability of Iterative Reconstruction across Multiple Institutions, CT Scanner Manufacturers, and Radiation Exposure Levels. Radiology, 2015, 277, 124-133.	3.6	24
295	Monte Carlo reference data sets for imaging research: Executive summary of the report of AAPM Research Committee Task Group 195. Medical Physics, 2015, 42, 5679-5691.	1.6	76
296	Prospective estimation of organ dose in CT under tube current modulation. Medical Physics, 2015, 42, 1575-1585.	1.6	25
297	Volumetric x-ray coherent scatter imaging of cancer in resected breast tissue: a Monte Carlo study using virtual anthropomorphic phantoms. Physics in Medicine and Biology, 2015, 60, 6355-6370.	1.6	16
298	Characteristic image quality of a third generation dualâ€source MDCT scanner: Noise, resolution, and detectability. Medical Physics, 2015, 42, 4941-4953.	1.6	86
299	Determination of contrast media administration to achieve a targeted contrast enhancement in CT. , 2015, , .		0
300	TU-CD-207-08: Intrinsic Image Quality Comparison of Synthesized 2-D and FFDM Images. Medical Physics, 2015, 42, 3611-3612.	1.6	2
301	WEâ€Câ€204â€09: Medical Physics 2.0 in Practice: Automated QC Assessment of Clinical Chest Images. Medical Physics, 2015, 42, 3695-3696.	1.6	1
302	TH-AB-201-12: A Consumer Report for Mobile Digital Radiography: A Holistic Comparative Evaluation Across Four Systems. Medical Physics, 2015, 42, 3720-3720.	1.6	2
303	MOâ€Fâ€CAMPUSâ€Iâ€03: GPU Accelerated Monte Carlo Technique for Fast Concurrent Image and Dose Simulation. Medical Physics, 2015, 42, 3583-3583.	1.6	0
304	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.	1.0	57
305	Pros and cons of organ shielding for CT imaging. Pediatric Radiology, 2014, 44, 495-500.	1.1	9
306	Evaluating iterative reconstruction performance in computed tomography. Medical Physics, 2014, 41, 121913.	1.6	50

#	Article	IF	Citations
307	Validation of an image-based technique to assess the perceptual quality of clinical chest radiographs with an observer study. Proceedings of SPIE, 2014, , .	0.8	0
308	A second generation of physical anthropomorphic 3D breast phantoms based on human subject data. Proceedings of SPIE, 2014, , .	0.8	2
309	A task-based comparison of two reconstruction algorithms for digital breast tomosynthesis. , 2014, , .		1
310	Population of 100 realistic, patient-based computerized breast phantoms for multi-modality imaging research. Proceedings of SPIE, 2014, , .	0.8	9
311	Quantum noise properties of CT images with anatomical textured backgrounds across reconstruction algorithms: FBP and SAFIRE. Medical Physics, 2014, 41, 091908.	1.6	82
312	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.	1.6	32
313	An angle-dependent estimation of CT x-ray spectrum from rotational transmission measurements. Medical Physics, 2014, 41, 062104.	1.6	17
314	Assessment of volumetric noise and resolution performance for linear and nonlinear CT reconstruction methods. Medical Physics, 2014, 41, 071909.	1.6	93
315	Modelâ€based CT performance assessment and optimization for iodinated and noniodinated imaging tasks as a function of kVp and body size. Medical Physics, 2014, 41, 081910.	1.6	15
316	Patient-based estimation of organ dose for a population of 58 adult patients across 13 protocol categories. Medical Physics, 2014, 41, 072104.	1.6	59
317	An efficient polyenergetic SART (pSART) reconstruction algorithm for quantitative myocardial CT perfusion. Medical Physics, 2014, 41, 021911.	1.6	27
318	Automated characterization of perceptual quality of clinical chest radiographs: Validation and calibration to observer preference. Medical Physics, 2014, 41, 111918.	1.6	19
319	The impact on CT dose of the variability in tube current modulation technology: a theoretical investigation. Physics in Medicine and Biology, 2014, 59, 4525-4548.	1.6	37
320	A generic framework to simulate realistic lung, liver and renal pathologies in CT imaging. Physics in Medicine and Biology, 2014, 59, 6637-6657.	1.6	56
321	X-ray coherent scatter imaging for surgical margin detection: a Monte Carlo study. Proceedings of SPIE, 2014, , .	0.8	4
322	Determining organ dose: the holy grail. Pediatric Radiology, 2014, 44, 460-467.	1.1	13
323	Task-based strategy for optimized contrast enhanced breast imaging: Analysis of six imaging techniques for mammography and tomosynthesis. Medical Physics, 2014, 41, 061908.	1.6	22
324	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.	5.4	32

#	Article	IF	Citations
325	An X-ray scatter system for material identification in cluttered objects: A Monte Carlo simulation study. Nuclear Instruments & Methods in Physics Research B, 2014, 335, 31-38.	0.6	11
326	Dose Index Analytics: More Than a Low Number. Journal of the American College of Radiology, 2014, 11, 832-834.	0.9	6
327	Impact of Dual-Energy Multiâ€"Detector Row CT with Virtual Monochromatic Imaging on Renal Cyst Pseudoenhancement: In Vitro and in Vivo Study. Radiology, 2014, 272, 767-776.	3.6	93
328	Improved Nuclear Medicine Uniformity Assessment with Noise Texture Analysis. Journal of Nuclear Medicine, 2014, 55, 169-174.	2.8	9
329	A set of 4D pediatric XCAT reference phantoms for multimodality research. Medical Physics, 2014, 41, 033701.	1.6	32
330	Pediatric Chest and Abdominopelvic CT: Organ Dose Estimation Based on 42 Patient Models. Radiology, 2014, 270, 535-547.	3.6	51
331	Organ localization: Toward prospective patient-specific organ dosimetry in computed tomography. Medical Physics, 2014, 41, 121908.	1.6	0
332	Design of anthropomorphic textured phantoms for CT performance evaluation. Proceedings of SPIE, 2014, , .	0.8	10
333	Prospective optimization of CT under tube current modulation: I. organ dose. , 2014, , .		3
334	The development of a population of 4D pediatric XCAT phantoms for CT imaging research and optimization. , 2014, , .		1
335	A refined methodology for modeling volume quantification performance in CT. Proceedings of SPIE, 2014, , .	0.8	0
336	SU-C-12A-03: The Impact of Contrast Medium On Radiation Dose in CT: A Systematic Evaluation Across 58 Patient Models. Medical Physics, 2014, 41, 106-106.	1.6	4
337	MO-E-17A-02: Incorporation of Contrast Medium Dynamics in Anthropomorphic Phantoms: The Advent of 5D XCAT Models. Medical Physics, 2014, 41, 424-424.	1.6	1
338	TU-C-18C-01: Medical Physics 1.0 to 2.0: Introduction and Panel Discussion. Medical Physics, 2014, 41, 461-462.	1.6	2
339	WE-D-18A-02: Performance Evaluation of Automatic Exposure Control (AEC) Across 12 Clinical CT Systems. Medical Physics, 2014, 41, 498-498.	1.6	2
340	TH-E-9A-01: Medical Physics 1.0 to 2.0, Session 4: Computed Tomography, Ultrasound and Nuclear Medicine. Medical Physics, 2014, 41, 574-575.	1.6	1
341	SU-F-18C-07: Automated CT QC Program with Analytics, Archival, and Notification Capabilities. Medical Physics, 2014, 41, 404-404.	1.6	0
342	MO-C-18A-01: Advances in Model-Based 3D Image Reconstruction. Medical Physics, 2014, 41, 416-417.	1.6	0

#	Article	IF	Citations
343	SU-E-I-94: Automated Image Quality Assessment of Radiographic Systems Using An Anthropomorphic Phantom. Medical Physics, 2014, 41, 152-152.	1.6	0
344	SU-E-I-91: Reproducibility in Prescribed Dose in AEC CT Scans Due to Table Height, Patient Size, and Localizer Acquisition Order. Medical Physics, 2014, 41, 151-151.	1.6	0
345	Population of anatomically variable 4D XCAT adult phantoms for imaging research and optimization. Medical Physics, 2013, 40, 043701.	1.6	154
346	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.	2.3	32
347	Monte-Carlo simulations of a coded-aperture x-ray scatter imaging system for molecular imaging. Proceedings of SPIE, 2013, , .	0.8	3
348	Relating Noise to Image Quality Indicators in CT Examinations With Tube Current Modulation. American Journal of Roentgenology, 2013, 200, 592-600.	1.0	44
349	The effect of dose heterogeneity on radiation risk in medical imaging. Radiation Protection Dosimetry, 2013, 155, 42-58.	0.4	7
350	Preliminary Evaluation of Biplane Correlation (BCI) Stereographic Imaging for Lung Nodule Detection. Journal of Digital Imaging, 2013, 26, 109-114.	1.6	2
351	Dose coefficients in pediatric and adult abdominopelvic CT based on 100 patient models. Physics in Medicine and Biology, 2013, 58, 8755-8768.	1.6	36
352	EVALUATION OF TWO OBJECTIVE METHODS TO OPTIMIZE <scp>KVP</scp> AND PERSONNEL EXPOSURE USING A DIGITAL INDIRECT FLAT PANEL DETECTOR AND SIMULATED VETERINARY PATIENTS. Veterinary Radiology and Ultrasound, 2013, 54, 9-16.	0.4	5
353	Precision of Iodine Quantification in Hepatic CT: Effects of Iterative Reconstruction With Various Imaging Parameters. American Journal of Roentgenology, 2013, 200, W475-W482.	1.0	19
354	Projection-based dose metric: accuracy testing and applications for CT design. , 2013, , .		5
355	Estimating breast density with dual energy mammography: a simple model based on calibration phantoms. , 2013, , .		0
356	Organ dose in chest CT: effect of modulation scheme on estimation accuracy. Proceedings of SPIE, 2013, , .	0.8	0
357	Development of a phantom-based methodology for the assessment of quantification performance in CT. , 2013, , .		3
358	Comparative dosimetry of radiography, tomosynthesis, and CT for chest imaging across 59 adult patients. Proceedings of SPIE, 2013, , .	0.8	1
359	Are uniform phantoms sufficient to characterize the performance of iterative reconstruction in CT?. Proceedings of SPIE, 2013, , .	0.8	14
360	Development of matched virtual and physical breast phantoms based on patient data. , 2013, , .		4

#	Article	IF	Citations
361	Volumetric quantification of lung nodules in CT with iterative reconstruction (ASiR and MBIR). Medical Physics, 2013, 40, 111902.	1.6	50
362	Estimation of Radiation Exposure for Brain Perfusion CT: Standard Protocol Compared With Deviations in Protocol. American Journal of Roentgenology, 2013, 201, W730-W734.	1.0	31
363	Simulation of anatomical texture in voxelized XCAT phantoms. Proceedings of SPIE, 2013, , .	0.8	4
364	Digital breast tomosynthesis: a concise overview. Imaging in Medicine, 2013, 5, 467-476.	0.0	5
365	DQE of wireless digital detectors: Comparative performance with differing filtration schemes. Medical Physics, 2013, 40, 081910.	1.6	19
366	Effective DQE (eDQE) for monoscopic and stereoscopic chest radiography imaging systems with the incorporation of anatomical noise. Medical Physics, 2013, 40, 091916.	1.6	5
367	Comparison of Conventional and Simulated Reducedâ€“Tube Current MDCT for Evaluation of Suspected Appendicitis in the Pediatric Population. American Journal of Roentgenology, 2013, 201, 651-658.	1.0	6
368	Assessment of multi-directional MTF for breast tomosynthesis. Physics in Medicine and Biology, 2013, 58, 1649-1661.	1.6	18
369	A methodology for image quality evaluation of advanced CT systems. Medical Physics, 2013, 40, 031908.	1.6	87
370	TU-C-103-10: An Automated Technique to Measure CT Noise in Patient Images. Medical Physics, 2013, 40, 438-438.	1.6	0
371	MO-D-141-10: Development of 4D XCAT Pediatric Reference Phantoms for Multi-Modality Imaging Research and Optimization. Medical Physics, 2013, 40, 401-401.	1.6	0
372	TU-C-103-07: Prospective Estimation of Diagnostic Performance and Radiation Dose for Individual CT Scans. Medical Physics, 2013, 40, 438-438.	1.6	0
373	TU-C-103-01: A Framework for 3D Modeling of Anthropomorphic Lesions in CT. Medical Physics, 2013, 40, 436-436.	1.6	1
374	MO-A-141-01: Memorial to Fearghus O' tFoghludha - Memorial Lecture. Medical Physics, 2013, 40, 390-390.	1.6	0
375	Visual Expertise: Insights Gained by Comparing Professional Populations. Journal of Vision, 2013, 13, 300-300.	0.1	0
376	Achieving Routine Submillisievert CT Scanning: Report from the Summit on Management of Radiation Dose in CT. Radiology, 2012, 264, 567-580.	3.6	246
377	CT performance as a variable function of resolution, noise, and task property for iterative reconstructions. , 2012, , .		7
378	Effects of protocol and obesity on dose conversion factors in adult body CT. Medical Physics, 2012, 39, 6550-6571.	1.6	46

#	Article	IF	Citations
379	An imageâ€based technique to assess the perceptual quality of clinical chest radiographs. Medical Physics, 2012, 39, 7019-7031.	1.6	20
380	3D biopsy for tomosynthesis: simulation of prior information based reconstruction for dose and artifact reduction. , 2012, , .		1
381	Task-based strategy for optimized contrast enhanced breast imaging: analysis of six imaging techniques for mammography and tomosynthesis. , 2012, , .		4
382	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.	1.6	57
383	Pencil beam coded aperture x-ray scatter imaging. Optics Express, 2012, 20, 16310.	1.7	66
384	Automated sizeâ€specific CT dose monitoring program: Assessing variability in CT dose. Medical Physics, 2012, 39, 7131-7139.	1.6	63
385	Quantitative CT: technique dependence of volume estimation on pulmonary nodules. Physics in Medicine and Biology, 2012, 57, 1335-1348.	1.6	32
386	Plate-specific gain map correction for the improvement of detective quantum efficiency in computed radiography. Medical Physics, 2012, 39, 1495-1504.	1.6	5
387	Radiation Dose Reduction in Abdominal Computed Tomography During the Late Hepatic Arterial Phase Using a Model-Based Iterative Reconstruction Algorithm. Investigative Radiology, 2012, 47, 468-474.	3.5	49
388	Series of 4D adult XCAT phantoms for imaging research and dosimetry. Proceedings of SPIE, 2012, , .	0.8	3
389	Relevance of MTF and NPS in quantitative CT: towards developing a predictable model of quantitative performance. Proceedings of SPIE, 2012, , .	0.8	7
390	Patient- and cohort-specific dose and risk estimation for abdominopelvic CT: a study based on 100 patients. , 2012, , .		1
391	Development of a dynamic 4D anthropomorphic breast phantom for contrast-based breast imaging. Proceedings of SPIE, 2012, , .	0.8	5
392	Towards task-based assessment of CT performance: System and object MTF across different reconstruction algorithms. Medical Physics, 2012, 39, 4115-4122.	1.6	317
393	Quantitative comparison of noise texture across CT scanners from different manufacturers. Medical Physics, 2012, 39, 6048-6055.	1.6	120
394	A computerized scheme for lung nodule detection in multiprojection chest radiography. Medical Physics, 2012, 39, 2001-2012.	1.6	3
395	The 2014 initiative can have potentially unintended negative consequences for medical physics in diagnostic imaging and nuclear medicine. Medical Physics, 2012, 39, 1167-1169.	1.6	1
396	The Effects of Ambient Lighting in Chest Radiology Reading Rooms. Journal of Digital Imaging, 2012, 25, 520-526.	1.6	24

#	Article	IF	Citations
397	Biplane Correlation Imaging: A Feasibility Study Based on Phantom and Human Data. Journal of Digital Imaging, 2012, 25, 137-147.	1.6	0
398	SU-C-217BCD-02: Evaluating the Impact of Iterative Reconstruction for Three Major CT Vendors. Medical Physics, 2012, 39, 3605-3606.	1.6	1
399	MO-D-BRA-01: Limits of Dose Reduction in CT: Where are They and How Will We Know When We Get There?. Medical Physics, 2012, 39, 3868-3868.	1.6	1
400	TH-E-217BCD-09: Task-Based Image Quality of CT Iterative Reconstruction Across Three Commercial Implementations. Medical Physics, 2012, 39, 4016-4016.	1.6	3
401	Application of a Dynamic 4D Anthropomorphic Breast Phantom in Contrast-Based Imaging System Optimization: Dual-Energy or Temporal Subtraction?. Lecture Notes in Computer Science, 2012, , 658-665.	1.0	0
402	TH-E-217BCD-02: Defining Performance-Based, Size-Specific, Optimized Protocols for Pediatric CT. Medical Physics, 2012, 39, 4014-4015.	1.6	0
403	TU-F-217A-01: Informatics 2: Dose Monitoring. Medical Physics, 2012, 39, 3917-3917.	1.6	0
404	TH-E-217BCD-07: Quantitative Comparison of Noise Texture Across CT Scanners from Different Vendors. Medical Physics, 2012, 39, 4016-4016.	1.6	1
405	SU-C-217BCD-03: CT QA Revisited in Context of Tube Current Modulation and Iterative Reconstruction. Medical Physics, 2012, 39, 3606-3606.	1.6	0
406	WE-A-218-08: Comparison of Automated Methods to Measure Patient Size for Dose- Monitoring in Computed Tomography. Medical Physics, 2012, 39, 3940-3940.	1.6	0
407	SU-C-217A-05: The Design of An Institution Wide Comprehensive Technique Chart for Size- Specific Radiography from Pediatrics to Adults. Medical Physics, 2012, 39, 3608-3608.	1.6	0
408	TH-E-217BCD-04: MA Modulation and Iterative Reconstruction: Evaluation Using a New CT Phantom. Medical Physics, 2012, 39, 4015-4015.	1.6	0
409	SU-C-217A-02: An Effective Dose Monitoring Program for Computed Radiography. Medical Physics, 2012, 39, 3607-3607.	1.6	0
410	SU-D-217A-03: Nuclear Medicine Uniformity Assessment Using 2D Noise Power Spectrum. Medical Physics, 2012, 39, 3621-3621.	1.6	0
411	SUâ€Eâ€â€47: Comparison of Risks for Two Medical Imaging Procedures. Medical Physics, 2012, 39, 3635-3635.	1.6	0
412	SUâ€Eâ€â€77: Xâ€Ray Coherent Scatter Diffraction Pattern Modeling in GEANT4. Medical Physics, 2012, 39, 3642-3643.	1.6	0
413	Patientâ€specific radiation dose and cancer risk estimation in CT: Part II. Application to patients. Medical Physics, 2011, 38, 408-419.	1.6	136
414	Patientâ€specific radiation dose and cancer risk estimation in CT: Part I. Development and validation of a Monte Carlo program. Medical Physics, 2011, 38, 397-407.	1.6	101

#	Article	IF	Citations
415	Effective dose efficiency: an application-specific metric of quality and dose for digital radiography. Physics in Medicine and Biology, 2011, 56, 5099-5118.	1.6	22
416	An Anthropomorphic Breast Model for Breast Imaging Simulation and Optimization. Academic Radiology, 2011, 18, 536-546.	1.3	54
417	Predictive models for observer performance in CT: applications in protocol optimization. Proceedings of SPIE, 2011, , .	0.8	23
418	Effect of gadolinium chelate contrast agents on diffusion weighted MR imaging of the liver, spleen, pancreas and kidney at 3T. European Journal of Radiology, 2011, 80, e1-e7.	1.2	22
419	Synthetic Positron Emission Tomography-Computed Tomography Images for Use in Perceptual Studies. Seminars in Nuclear Medicine, 2011, 41, 437-448.	2.5	5
420	Lung nodule detection in pediatric chest CT: Quantitative relationship between image quality and radiologist performance. Medical Physics, 2011, 38, 2609-2618.	1.6	17
421	Patient-specific Radiation Dose and Cancer Risk for Pediatric Chest CT. Radiology, 2011, 259, 862-874.	3.6	104
422	Comparative performance of multiview stereoscopic and mammographic display modalities for breast lesion detection. Medical Physics, 2011, 38, 1972-1980.	1.6	20
423	Dual-energy contrast-enhanced breast tomosynthesis: optimization of beam quality for dose and image quality. Physics in Medicine and Biology, 2011, 56, 6359-6378.	1.6	26
424	3D task-based performance assessment metrics for optimization of performance and dose in breast tomosynthesis. , 2011, , .		3
425	The feasibility of universal DLP-to-risk conversion coefficients for body CT protocols. , 2011, , .		1
426	A new iodinated liver phantom for the quantitative evaluation of advanced CT acquisition and reconstruction techniques. Proceedings of SPIE, 2011, , .	0.8	1
427	A patient image-based technique to assess the image quality of clinical chest radiographs. , 2011, , .		0
428	TU-C-110-01: Patient Dose in CT: Calculating Patient Specific Doses in CT(Joint with Education). Medical Physics, 2011, 38, 3759-3759.	1.6	0
429	WE-C-110-08: A Novel Phantom for CT Performance Assessment: Towards a Task-Based Measure of Image Quality. Medical Physics, 2011, 38, 3810-3810.	1.6	0
430	TU-A-110-01: Resolution in Digital Radiography. Medical Physics, 2011, 38, 3744-3744.	1.6	0
431	SU-D-301-06: Impact of Non-Stationarity in Breast Tomosynthesis on Task-Based Imaging Performance. Medical Physics, 2011, 38, 3389-3389.	1.6	0
432	TH-A-214-03: Automated Patient-Specific CT Dose Monitoring System: Assessing Variability in CT Dose. Medical Physics, 2011, 38, 3843-3843.	1.6	0

#	Article	IF	Citations
433	WE-G-110-06: Introduction to the AAPM Task Group No. 195 - Monte Carlo Reference Data Sets for Imaging Research. Medical Physics, 2011, 38, 3834-3834.	1.6	0
434	WE-G-110-03: Directional MTF Measurement of Tomosynthesis Images Using a Cone-Based Technique. Medical Physics, 2011, 38, 3833-3833.	1.6	0
435	SU-C-220-01: Comparative MTF and DQE Performance of Wireless Digital Image Receptors. Medical Physics, 2011, 38, 3379-3379.	1.6	0
436	TH-A-214-02: Organ Dose, Effective Dose, and Dose Conversion Coefficients in Adult CT: Comparison of Mathematical, XCAT, and ICRP Reference Phantoms. Medical Physics, 2011, 38, 3842-3843.	1.6	0
437	A technique optimization protocol and the potential for dose reduction in digital mammography. Medical Physics, 2010, 37, 962-969.	1.6	32
438	Quantitative imaging in breast tomosynthesis and CT: Comparison of detection and estimation task performance. Medical Physics, 2010, 37, 2627-2637.	1.6	46
439	The quantitative potential for breast tomosynthesis imaging. Medical Physics, 2010, 37, 1004-1016.	1.6	14
440	Generalized â€œsatisfaction of searchâ€• Adverse influences on dual-target search accuracy.. Journal of Experimental Psychology: Applied, 2010, 16, 60-71.	0.9	100
441	Quantitative breast tomosynthesis: From detectability to estimability. Medical Physics, 2010, 37, 6157-6165.	1.6	21
442	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.	3.6	135
443	Kilovoltage coneâ€beam CT: Comparative dose and image quality evaluations in partial and fullâ€angle scan protocols. Medical Physics, 2010, 37, 3648-3659.	1.6	61
444	Patient-specific radiation dose and cancer risk estimation in pediatric chest CT: a study in 30 patients. , 2010, , .		0
445	Toward an international consensus strategy for periodic quality control of digital breast tomosynthesis systems. Proceedings of SPIE, 2010, , .	0.8	2
446	Extending the detectability index to quantitative imaging performance: applications in tomosynthesis and CT. , 2010, , .		1
447	Quantitative CT: technique dependency of volume assessment for pulmonary nodules. , 2010, , .		0
448	Quantification of radiographic image quality based on patient anatomical contrast-to-noise ratio: a preliminary study with chest images. Proceedings of SPIE, 2010, , .	0.8	2
449	Wide-angle breast tomosynthesis: initial comparative evaluation. Proceedings of SPIE, 2010, , .	0.8	0
450	The myth of mean dose as a surrogate for radiation risk?. , 2010, , .		1

#	Article	IF	Citations
451	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.	3.6	470
452	SU-GG-I-57: Dose and Image Quality Evaluation for Partial and Full-Angle Kilovoltage Cone-Beam CT Protocols. Medical Physics, 2010, 37, 3114-3114.	1.6	0
453	SU-GG-I-14: A Method to Estimate Cone-Beam CT Dose Index and Cone-Beam Dose Length Product. Medical Physics, 2010, 37, 3104-3104.	1.6	0
454	MOâ€Bâ€201Câ€01: Color Monitors for Medical Workstations. Medical Physics, 2010, 37, 3337-3337.	1.6	0
455	Can Compression Be Reduced for Breast Tomosynthesis? Monte Carlo Study on Mass and Microcalcification Conspicuity in Tomosynthesis. Radiology, 2009, 251, 673-682.	3.6	43
456	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.	3.6	218
457	Three-dimensional simulation of lung nodules for paediatric multidetector array CT. British Journal of Radiology, 2009, 82, 401-411.	1.0	29
458	Optimized image acquisition for breast tomosynthesis in projection and reconstruction space. Medical Physics, 2009, 36, 4859-4869.	1.6	66
459	Pediatric MDCT. Academic Radiology, 2009, 16, 872-880.	1.3	28
460	Mass detection on mammograms: influence of signal shape uncertainty on human and model observers. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 425.	0.8	28
461	The Influence of Increased Ambient Lighting on Mass Detection in Mammograms. Academic Radiology, 2009, 16, 299-304.	1.3	15
462	Towards Optimized Acquisition Scheme for Multiprojection Correlation Imaging of Breast Cancer. Academic Radiology, 2009, 16, 456-463.	1.3	3
463	Design and Development of a New Multi-Projection X-Ray System for Chest Imaging. IEEE Transactions on Nuclear Science, 2009, 56, 36-45.	1.2	8
464	The effect of dose reductions on lesion detection in head CT. , 2009, , .		2
465	An exposure indicator for digital radiography: AAPM Task Group 116 (Executive Summary). Medical Physics, 2009, 36, 2898-2914.	1.6	108
466	Effective DQE (eDQE) and speed of digital radiographic systems: An experimental methodology. Medical Physics, 2009, 36, 3806-3817.	1.6	59
467	Optimized lesion detection in digital breast tomosynthesis. , 2009, , .		0
468	Patient-specific dose estimation for pediatric abdomen-pelvis CT. , 2009, , .		0

#	Article	IF	Citations
469	Patient specific computerized phantoms to estimate dose in pediatric CT. , 2009, , .		14
470	Contrast detail curves in head CT examinations. Proceedings of SPIE, 2009, , .	0.8	1
471	Use of effective detective quantum efficiency to optimise radiographic exposures for chest imaging with computed radiography. , 2009, , .		6
472	Extension of DQE to include scatter, grid, magnification, and focal spot blur: a new experimental technique and metric. , 2009, , .		9
473	Comparison of patient sizeâ€based methods for estimating quantum noise in CT images of the lung. Medical Physics, 2009, 36, 541-546.	1.6	11
474	SU-FF-I-109: Quantitative Breast Tomosynthesis: Development of An Estimation Performance Metric and Optimization Framework. Medical Physics, 2009, 36, 2459-2460.	1.6	0
475	MO-FF-A4-01: Evaluation of Background Trend Correction Technique in Breast Tomosynthesis Quantitation. Medical Physics, 2009, 36, 2713-2713.	1.6	0
476	Micro-CT imaging of breast tumors in rodents using a liposomal, nanoparticle contrast agent. International Journal of Nanomedicine, 2009, 4, 277-82.	3.3	17
477	Introduction to Grayscale Calibration and Related Aspects of Medical Imaging Grade Liquid Crystal Displays. Journal of Digital Imaging, 2008, 21, 193-207.	1.6	52
478	Optimization of dual energy contrast enhanced breast tomosynthesis for improved mammographic lesion detection and diagnosis. Proceedings of SPIE, 2008, , .	0.8	10
479	Optimized acquisition scheme for multi-projection correlation imaging of breast cancer. Proceedings of SPIE, 2008, , .	0.8	0
480	Mass detection on mammograms: signal variations and performance changes for human and model observers. , 2008, , .		2
481	Inter-reader variability in alternate forced choice studies. , 2008, , .		4
482	Toward assessing the diagnostic influence of dose reduction in pediatric CT: a study based on simulated lung nodules. Proceedings of SPIE, 2008, , .	0.8	0
483	Utility of a prototype liposomal contrast agent for x-ray imaging of breast cancer: a proof of concept using micro-CT in small animals. , 2008, , .		4
484	Reconstruction filters and contrast detail curves in CT. Proceedings of SPIE, 2008, , .	0.8	4
485	Toward quantification of breast tomosynthesis imaging. Proceedings of SPIE, 2008, , .	0.8	3
486	Computer-aided detection of breast masses in tomosynthesis reconstructed volumes using information-theoretic similarity measures. , 2008, , .		4

#	Article	IF	Citations
487	Detector or System? Extending the Concept of Detective Quantum Efficiency to Characterize the Performance of Digital Radiographic Imaging Systems. Radiology, 2008, 249, 926-937.	3.6	60
488	Hypervascular Liver Tumors: Low Tube Voltage, High Tube Current Multiâ€“Detector Row CT for Enhanced Detectionâ€”Phantom Study. Radiology, 2008, 246, 125-132.	3.6	170
489	Patientâ€specific dose estimation for pediatric chest CT. Medical Physics, 2008, 35, 5821-5828.	1.6	39
490	The effect of breast compression on mass conspicuity in digital mammography. Medical Physics, 2008, 35, 4464-4473.	1.6	38
491	Object detectability at increased ambient lighting conditions. Medical Physics, 2008, 35, 2204-2213.	1.6	31
492	Automated breast mass detection in 3D reconstructed tomosynthesis volumes: A featureless approach. Medical Physics, 2008, 35, 3626-3636.	1.6	37
493		1.6	20
494	Optimization of exposure parameters in full field digital mammography. Medical Physics, 2008, 35, 2414-2423.	1.6	75
495	The effect of increased ambient lighting on detection accuracy in uniform and anatomical backgrounds. Proceedings of SPIE, 2008, , .	0.8	0
496	A mathematical model platform for optimizing a multiprojection breast imaging system. Medical Physics, 2008, 35, 1337-1345.	1.6	41
497	Knowledge Transfer across Breast Cancer Screening Modalities: A Pilot Study Using an Information-Theoretic CADe System for Mass Detection. Lecture Notes in Computer Science, 2008, , 292-298.	1.0	2
498	Multi-projection Correlation Imaging as a New Diagnostic Tool for Improved Breast Cancer Detection. Lecture Notes in Computer Science, 2008, , 635-642.	1.0	2
499	Breast Mass Detection under Increased Ambient Lighting. Lecture Notes in Computer Science, 2008, , 243-248.	1.0	2
500	Assessment of Low Energies and Slice Depth in the Quantification of Breast Tomosynthesis. Lecture Notes in Computer Science, 2008, , 530-536.	1.0	0
501	Multiprojection Correlation Imaging for Improved Detection of Pulmonary Nodules. American Journal of Roentgenology, 2007, 188, 1239-1245.	1.0	19
502	Digital Mammography: Effects of Reduced Radiation Dose on Diagnostic Performance. Radiology, 2007, 243, 396-404.	3.6	45
503	Assessment of Detective Quantum Efficiency: Intercomparison of a Recently Introduced International Standard with Prior Methods¹. Radiology, 2007, 243, 785-795.	3.6	46
504	Design of a new multi-projection imaging system for chest radiography. , 2007, , .		3

#	Article	IF	Citations
505	Does image quality matter? Impact of resolution and noise on mammographic task performance. Medical Physics, 2007, 34, 3971-3981.	1.6	62
506	Effect of dose reduction on the detection of mammographic lesions: A mathematical observer model analysis. Medical Physics, 2007, 34, 3385-3398.	1.6	36
507	Dose dependence of mass and microcalcification detection in digital mammography: Free response human observer studies. Medical Physics, 2007, 34, 400-407.	1.6	72
508	Tomographic digital subtraction angiography for lung perfusion estimation in rodents. Medical Physics, 2007, 34, 1546-1555.	1.6	22
509	A contrast-detail comparison of computed mammotomography and digital mammography. , 2007, , .		4
510	Experimental benchmarking of a Monte Carlo dose simulation code for pediatric CT. , 2007, , .		7
511	Effect of increased ambient lighting on detectability: a psychophysical study. , 2007, , .		2
512	Methodology of NEQ (f) analysis for optimization and comparison of digital breast tomosynthesis acquisition techniques and reconstruction algorithms. , 2007, , .		7
513	Visual image quality metrics for optimization of breast tomosynthesis acquisition technique. , 2007, , .		1
514	Initial human subject results for breast bi-plane correlation imaging technique. , 2007, , .		5
515	Validation of software for QC assessment of MTF and NPS. , 2007, , .		0
516	Digital Mammography: Comparative Performance of Color LCD and Monochrome CRT Displays. Academic Radiology, 2007, 14, 539-546.	1.3	12
517	An Anger-Camera Study of Scatter Effects in Single-photon-Emission Imaging With Flat-Panel Detectors. International Journal of Radiation Oncology Biology Physics, 2007, 69, S727.	0.4	0
518	A mathematical model approach toward combining information from multiple image projections of the same patient. , 2007, , .		3
519	TH-D-M100F-01: An Evaluation of Noise in Radiotracer Emission Imaging Using Flat-Panel Detectors. Medical Physics, 2007, 34, 2636-2636.	1.6	0
520	MOâ€Dâ€L100Fâ€03: New Developments in Digital Breast Tomosynthesis. Medical Physics, 2007, 34, 2518-2518.	1.6	0
521	SUâ€FFâ€Iâ€28: Evaluation of a Noise Addition Software for Simulating Low Dose MDCT Images. Medical Physics, 2007, 34, 2344-2344.	1.6	0
522	TUâ€Bâ€M100Jâ€01: Optimizing Mammography Image Quality and Dose: Xâ€Ray Spectrum and Exposure Parameter Selection. Medical Physics, 2007, 34, 2540-2541.	1.6	0

#	Article	IF	Citations
523	TU-E-L100E-01: Image Quality Measurement Workshop. Medical Physics, 2007, 34, 2570-2571.	1.6	0
524	TUâ€EEâ€A4â€06: Experimental Evaluation of Effective Detective Quantum Efficiency for Digital Radiographic Imaging Systems. Medical Physics, 2007, 34, 2564-2564.	1.6	0
525	Simulation of Mammographic Lesions. Academic Radiology, 2006, 13, 860-870.	1.3	63
526	Why Medical Image Perception?. Journal of the American College of Radiology, 2006, 3, 400-401.	0.9	8
527	Beam Optimization for Digital Mammography â€“ II. Lecture Notes in Computer Science, 2006, , 273-280.	1.0	2
528	Performance evaluation of a commercial system for quantitative measurement of display resolution. , 2006, , .		1
529	Digital Mammography Image Quality: Image Display. Journal of the American College of Radiology, 2006, 3, 615-627.	0.9	32
530	Geometrical Repeatability and Motion Blur Analysis of a New Multi-projection X-ray Imaging System. , 2006, , .		1
531	Comparison of LCD and CRT Displays Based on Efficacy for Digital Mammography. Academic Radiology, 2006, 13, 1317-1326.	1.3	16
532	In-field assessment of display resolution and noise: Performance evaluation of a commercial measurement system. Journal of the Society for Information Display, 2006, 14, 839.	0.8	0
533	In-field evaluation of the modulation transfer function and the signal-to-noise ratio of electronic-display devices. Journal of the Society for Information Display, 2006, 14, 847.	0.8	0
534	A photographic technique for assessing the viewing-angle performance of liquid-crystal displays. Journal of the Society for Information Display, 2006, 14, 867.	0.8	2
535	A method for reduction of eye fatigue by optimizing the ambient light conditions in radiology reading rooms. , 2006, 6145, 10.		5
536	A Monte Carlo investigation on the impact of scattered radiation on mammographic resolution and noise. , 2006, , .		6
537	X-ray tube voltage and image quality in adult and pediatric CT. , 2006, , .		1
538	The impact of angular separation on the performance of biplane correlation imaging for lung nodule detection. , 2006, , .		2
539	Analyzing the effect of dose reduction on the detection of mammographic lesions using mathematical observer models. , 2006, , .		5
540	A novel method to characterize the MTF in 3D for computed mammotomography. , 2006, 6142, 697.		5

#	Article	IF	Citations
541	Biplane correlation imaging for lung nodule detection: initial human subject results. , 2006, 6144, 646.		0
542	Analysis of a novel offset cone-beam computed mammotomography system geometry for accomodating various breast sizes. Physica Medica, 2006, 21, 48-55.	0.4	18
543	1032. International Journal of Radiation Oncology Biology Physics, 2006, 66, S147-S148.	0.4	0
544	Visual Assessment of Angular Response in Medical Liquid Crystal Displays. Journal of Digital Imaging, 2006, 19, 240-248.	1.6	2
545	Potential for lower absorbed dose in digital mammography: A JAFROC experiment using clinical hybrid images with simulated dose reduction. , 2006, , .		6
546	Improving mammographic decision accuracy by incorporating observer ratings with interpretation time. British Journal of Radiology, 2006, 79, S117-S122.	1.0	14
547	Simulation of Liver Lesions for Pediatric CT. Radiology, 2006, 238, 699-705.	3.6	22
548	Recent Advances in Chest Radiography. Radiology, 2006, 241, 663-683.	3.6	176
549	Optimized radiographic spectra for small animal digital subtraction angiography. Medical Physics, 2006, 33, 4249-4257.	1.6	19
550	Physics, 2006, 33, 1454.	1.6	172
551	Imaging properties of digital magnification radiography. Medical Physics, 2006, 33, 984-996.	1.6	32
552	Viewing angle performance of medical liquid crystal displays. Medical Physics, 2006, 33, 645-654.	1.6	18
553	Ambient illumination revisited: A new adaptation-based approach for optimizing medical imaging reading environments. Medical Physics, 2006, 34, 81-90.	1.6	48
554	Resolution and noise measurements of five CRT and LCD medical displays. Medical Physics, 2006, 33, 308-319.	1.6	40
555	Contrast-detail analysis of three flat panel detectors for digital radiography. Medical Physics, 2006, 33, 1707-1719.	1.6	25
556	Medical Physics, 2006, 33, 1466.	1.6	137
557	SU-FF-I-48: Assessment of Detective Quantum Efficiency: Inter-Comparison of IEC 62220-1 with Representative Prior Methods. Medical Physics, 2006, 33, 2007-2007.	1.6	0
558	TU-FF-A3-02: Preliminary Investigations Into Combined CT/SPECT Imaging Onboard Therapy Machines. Medical Physics, 2006, 33, 2221-2221.	1.6	0

#	Article	IF	Citations
559	MO-D-230C-01: Evaluation of Medical Displays. Medical Physics, 2006, 33, 2169-2169.	1.6	0
560	TH-C-330A-02: Does Image Quality Impact Mammographic Accuracy?. Medical Physics, 2006, 33, 2265-2266.	1.6	1
561	MO-E-230C-00: Display Evaluation Demonstration Workshop: Part II. Medical Physics, 2006, 33, 2176-2177.	1.6	0
562	Photographic measurement of the effects of viewing angle on the luminance and contrast of liquid crystal displays. , 2005, , .		2
563	Design and development of a fully 3D dedicated x-ray computed mammotomography system. , 2005, 5745, 189.		47
564	A Study of CRT (5-Mpixel) vs. LCD (9-Mpixel) Displays for Breast Lesion Detection in Full-Field Digital Mammography and Ultrasound (FFDMUS) Data Sets via Image-Enhancement Algorithms. Digest of Technical Papers SID International Symposium, 2005, 36, 368.	0.1	0
565	Detector evaluation of a prototype amorphous selenium-based full field digital mammography system. , 2005, , .		3
566	Effect of display resolution on the detection of mammographic lesions. , 2005, , .		5
567	13.3: MTF and NPS Study of High-Resolution LCDs and CRTs for Mammography. Digest of Technical Papers SID International Symposium, 2005, 36, 196.	0.1	0
568	Physical evaluation of a high-frame-rate extended dynamic range flat panel detector for real-time cone beam computed tomography applications. , 2005, , .		5
569	Comparative Scatter and Dose Performance of Slot-Scan and Full-Field Digital Chest Radiography Systems. Radiology, 2005, 235, 940-949.	3.6	40
570	Technological and Psychophysical Considerations for Digital Mammographic Displays. Radiographics, 2005, 25, 491-501.	1.4	47
571	Physical characterization of a prototype selenium-based full field digital mammography detector. Medical Physics, 2005, 32, 588-599.	1.6	50
572	Assessment of display performance for medical imaging systems: Executive summary of AAPM TG18 report. Medical Physics, 2005, 32, 1205-1225.	1.6	290
573	Measurement of the detective quantum efficiency in digital detectors consistent with the IEC 62220-1 standard: Practical considerations regarding the choice of filter material. Medical Physics, 2005, 32, 2305-2311.	1.6	22
574	Initial study of quasi-monochromatic X-ray beam performance for X-ray computed mammotomography. IEEE Transactions on Nuclear Science, 2005, 52, 1243-1250.	1.2	25
575	Comparison of edge analysis techniques for the determination of the MTF of digital radiographic systems. Physics in Medicine and Biology, 2005, 50, 3613-3625.	1.6	45
576	A framework for optimising the radiographic technique in digital X-ray imaging. Radiation Protection Dosimetry, 2005, 114, 220-229.	0.4	127

#	Article	IF	Citations
577	MO-D-W-608-01: Display Evaluation Demonstration Workshop. Medical Physics, 2005, 32, 2063-2063.	1.6	1
578	WE-E-I-609-01: Advances In Perception & Visualization. Medical Physics, 2005, 32, 2142-2142.	1.6	0
579	MO-E-W-608-01: Display Evaluation Demonstration Workshop. Medical Physics, 2005, 32, 2073-2073.	1.6	0
580	AAPM/RSNA Tutorial on Equipment Selection: PACS Equipment Overview. Radiographics, 2004, 24, 313-334.	1.4	62
581	Fundamental imaging characteristics of a slot-scan digital chest radiographic system. Medical Physics, 2004, 31, 2687-2698.	1.6	53
582	Assessment of flat panel LCD primary class display performance based on AAPM TG 18 acceptance protocol. Medical Physics, 2004, 31, 2155-2164.	1.6	22
583	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.	1.6	62
584	Simulation study of a quasi-monochromatic beam for x-ray computed mammotomography. Medical Physics, 2004, 31, 800-813.	1.6	60
585	Measurements of an optimized beam for x-ray computed mammotomography. , 2004, 5368, 311.		8
586	Luminance and Contrast Performance of Liquid Crystal Displays for Mammographic Applications. Technology in Cancer Research and Treatment, 2004, 3, 429-436.	0.8	6
587	Toward Clinically Relevant Standardization of Image Quality. Journal of Digital Imaging, 2004, 17, 271-278.	1.6	10
588	Development of an optimal X-ray beam for dual-mode emission and transmission mammotomography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 527, 102-109.	0.7	10
589	Impact of resolution and noise characteristics of digital radiographic detectors on the detectability of lung nodules. Medical Physics, 2004, 31, 1603-1613.	1.6	19
590	Characterization of breast masses for simulation purposes. , 2004, , .		10
591	Effect of viewing angle response on DICOM compliance of liquid crystal displays. , 2004, , .		11
592	Liquid-crystal displays for medical imaging: a discussion of monochrome versus color. , 2004, , .		3
593	An experimental comparison of detector performance for direct and indirect digital radiography systems. Medical Physics, 2003, 30, 608-622.	1.6	248
594	Image quality in two phosphor-based flat panel digital radiographic detectors. Medical Physics, 2003, 30, 1747-1757.	1.6	68

#	Article	IF	Citations
595	Evaluation of a flat panel digital radiographic system for low-dose portable imaging of neonates. Medical Physics, 2003, 30, 601-607.	1.6	24
596	Subtle Lung Nodules: Influence of Local Anatomic Variations on Detection. Radiology, 2003, 228, 76-84.	3.6	71
597	A method for modifying the image quality parameters of digital radiographic images. Medical Physics, 2003, 30, 3006-3017.	1.6	84
598	Clinical verification of TG18 methodology for display quality evaluation. , 2003, 5029, 484.		4
599	Simulation study of quasi-monochromatic X- ray beam performance for X-ray computed mammotomography given various breast compositions and lesion sizes. , 2003, , .		0
600	Chest Radiography: Optimization of X-ray Spectrum for Cesium Iodideâ€“Amorphous Silicon Flat-Panel Detector. Radiology, 2003, 226, 221-230.	3.6	69
601	Fast search and localization algorithm based on human visual perception modeling: an application for fast localization of structures in mammograms. , 2003, 5034, 270.		0
602	Bi-plane correlation imaging for improved detection of lung nodules. , 2003, 5030, 284.		8
603	Impact of resolution and noise characteristics of digital radiographic detectors on the detectability of lung nodules. , 2003, , .		2
604	Optimizing beam quality for x-ray computed mammotomography. , 2003, , .		5
605	Sonography of Fetal Choroid Plexus Cysts. Journal of Ultrasound in Medicine, 2003, 22, 1219-1227.	0.8	10
606	An experimental comparison of detector performance for computed radiography systems. Medical Physics, 2002, 29, 447-459.	1.6	113
607	Performance evaluation of computed radiography systems. Medical Physics, 2001, 28, 361-371.	1.6	63
608	<title>Objective performance evaluation of medical image displays: a preliminary report of the AAPM TG18</title>. , 2001, 4295, 159.		0
609	<title>Optimal display processing for digital radiography</title>. , 2001, , .		5
610	<title>Method for in-field evaluation of the modulation transfer function of electronic display devices</title>. , 2001, 4319, 599.		9
611	Evaluation of a quality control phantom for digital chest radiography. Journal of Applied Clinical Medical Physics, 2001, 2, 90-101.	0.8	11
612	DQE of direct and indirect digital radiography systems. , 2001, , .		41

#	Article	IF	Citations
613	Evaluation of a quality control phantom for digital chest radiography. Journal of Applied Clinical Medical Physics, 2001, 2, 90.	0.8	12
614	Health Physics Consequences of Out-Patient Treatment of Non-HodgkinÊ¼s Lymphoma with 131I-radiolabeled Anti-B1 Antibody. Health Physics, 2000, 79, S52-S55.	0.3	7
615	Use of Wiener filtering in the measurement of the two-dimensional modulation transfer function. , 2000, 3977, 670.		4
616	Numerical simulation of a TLD pulsed laser-heating scheme for determination of shallow dose and deep dose in low-LET radiation fields. Applied Radiation and Isotopes, 2000, 52, 1419-1429.	0.7	2
617	Detection of Subtle Lung Nodules: Relative Influence of Quantum and Anatomic Noise on Chest Radiographs. Radiology, 1999, 213, 727-734.	3.6	224
618	Experimental comparison of noise and resolution for 2k and 4k storage phosphor radiography systems. Medical Physics, 1999, 26, 1612-1623.	1.6	112
619	A method for measuring the presampled MTF of digital radiographic systems using an edge test device. Medical Physics, 1998, 25, 102-113.	1.6	607
620	Chest radiographic image quality: comparison of asymmetric screen-film, digital storage phosphor, and digital selenium drum systems--preliminary study.. Radiographics, 1998, 18, 745-754.	1.4	10
621	The performance of digital x-ray imaging systems in detection of subtle lung nodules. Medical Physics, 1998, 25, 2077-2077.	1.6	1
622	<title>Effect of local background anatomical patterns on the detection of subtle lung nodules in chest radiographs</title>. , 1998, 3340, 44.		2
623	Simulation of subtle lung nodules in projection chest radiography.. Radiology, 1997, 202, 117-124.	3.6	58
624	<title>Physical measures of image quality in photostimulable phosphor radiographic systems</title>. , 1997, , .		16
625	<title>Comparison of observer performance for real and simulated nodules in chest radiography</title>. , 1996, 2712, 60.		8
626	<title>Performance of low-voltage phosphors in emissive flat panel displays for radiologic applications</title>. , 1996, 2707, 312.		2
627	An atlas of selected beta-ray spectra and depth-dose distributions in lithium fluoride and soft tissue generated by a fast Monte Carlo-based sampling method. Radiation Physics and Chemistry, 1996, 48, 719-725.	1.4	3
628	A Limited Bibliography of the Federal Government-Funded Human Radiation Experiments. Health Physics, 1995, 69, 885-891.	0.3	3
629	Sensitivity of a Mixed Field Dosimetry Algorithm to Uncertainties in Thermoluminescent Element Readings. Health Physics, 1995, 68, 340-349.	0.3	8
630	Impact of variations in physical parameters on glow curves for planchet heating of TL dosimeters. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 353, 415-419.	0.7	17

#	Article	IF	Citations
631	Initial study of quasimonochromatic X-ray beam performance for X-ray computed mammotomography. , 0, , .		0
632	Imaging Science. , 0, , 89-141.		1
633	Dose coefficients for organ dosimetry in tomosynthesis imaging of adults and pediatrics across diverse protocols. Medical Physics, 0, , .	1.6	2