John M Boone

List of Publications by Citations

184 papers	7,545 citations	45 h-index	82 g-index
198 ext. papers	8,522 ext. citations	5 avg, IF	6.14 L-index

#	Paper	IF	Citations
184	An accurate method for computer-generating tungsten anode x-ray spectra from 30 to 140 kV. *Medical Physics*, **1997**, 24, 1661-70	4.4	482
183	Dedicated breast CT: radiation dose and image quality evaluation. *Radiology*, **2001**, 221, 657-67	20.5	395
182	Molybdenum, rhodium, and tungsten anode spectral models using interpolating polynomials with application to mammography. *Medical Physics*, **1997**, 24, 1863-74	4.4	330
181	Dedicated breast CT: initial clinical experience. *Radiology*, **2008**, 246, 725-33	20.5	288
180	Pulmonary embolism in pregnant patients: fetal radiation dose with helical CT. *Radiology*, **2002**, 224, 487-92	20.5	265
179	Dose reduction in pediatric CT: a rational approach. *Radiology*, **2003**, 228, 352-60	20.5	213
178	Glandular breast dose for monoenergetic and high-energy X-ray beams: Monte Carlo assessment. *Radiology*, **1999**, 213, 23-37	20.5	209
177	Contrast-enhanced dedicated breast CT: initial clinical experience. *Radiology*, **2010**, 256, 714-23	20.5	153
176	Small-animal X-ray dose from micro-CT. *Molecular Imaging*, **2004**, 3, 149-58	3.7	149
175	Normalized glandular dose (DgN) coefficients for arbitrary X-ray spectra in mammography: computer-fit values of Monte Carlo derived data. *Medical Physics*, **2002**, 29, 869-75	4.4	148
174	Comparison of x-ray cross sections for diagnostic and therapeutic medical physics. *Medical Physics*, **1996**, 23, 1997-2005	4.4	144
173	A geometric calibration method for cone beam CT systems. *Medical Physics*, **2006**, 33, 1695-706	4.4	130
172	The trouble with CTD100. *Medical Physics*, **2007**, 34, 1364-71	4.4	129
171	Computed tomography for imaging the breast. *Journal of Mammary Gland Biology and Neoplasia*, **2006**, 11, 103-11	2.4	125
170	Determination of the presampled MTF in computed tomography. *Medical Physics*, **2001**, 28, 356-60	4.4	119
169	Scatter/primary in mammography: comprehensive results. *Medical Physics*, **2000**, 27, 2408-16	4.4	111
168	High-resolution spiral CT of the breast at very low dose: concept and feasibility considerations. *European Radiology*, **2012**, 22, 1-8	8	105

167	Evaluation of the spatial resolution characteristics of a cone-beam breast CT scanner. *Medical Physics*, **2007**, 34, 275-81	4.4	102
166	Tungsten anode spectral model using interpolating cubic splines: unfiltered x-ray spectra from 20 kV to 640 kV. *Medical Physics*, **2014**, 41, 042101	4.4	100
165	Technique factors and their relationship to radiation dose in pendant geometry breast CT. *Medical Physics*, **2005**, 32, 3767-76	4.4	97
164	Initial characterization of a dedicated breast PET/CT scanner during human imaging. *Journal of Nuclear Medicine*, **2009**, 50, 1401-8	8.9	90
163	The effect of skin thickness determined using breast CT on mammographic dosimetry. *Medical Physics*, **2008**, 35, 1199-206	4.4	85
162	An analytical model of the scattered radiation distribution in diagnostic radiology. *Medical Physics*, **1988**, 15, 721-5	4.4	83
161	Use of Water Equivalent Diameter for Calculating Patient Size and Size-Specific Dose Estimates (SSDE) in CT: The Report of AAPM Task Group 220 **2014**, 2014, 6-23		83
160	Evaluation of x-ray scatter properties in a dedicated cone-beam breast CT scanner. *Medical Physics*, **2005**, 32, 2967-75	4.4	82
159	Scatter/primary in mammography: Monte Carlo validation. *Medical Physics*, **2000**, 27, 1818-31	4.4	80
158	Methodology for generating a 3D computerized breast phantom from empirical data. *Medical Physics*, **2009**, 36, 3122-31	4.4	76
157	Characterizing anatomical variability in breast CT images. *Medical Physics*, **2008**, 35, 4685-94	4.4	75
156	Analysis and correction of imperfections in the image intensifier-TV-digitizer imaging chain. *Medical Physics*, **1991**, 18, 236-42	4.4	71
155	A fully automated algorithm for the segmentation of lung fields on digital chest radiographic images. *Medical Physics*, **1995**, 22, 183-91	4.4	70
154	Radiation exposure from CT scans: how to close our knowledge gaps, monitor and safeguard exposure--proceedings and recommendations of the Radiation Dose Summit, sponsored by NIBIB, February 24-25, 2011. *Radiology*, **2012**, 265, 544-54	20.5	69
153	Dual-energy mammography: a detector analysis. *Medical Physics*, **1990**, 17, 665-75	4.4	67
152	An analytical edge spread function model for computer fitting and subsequent calculation of the LSF and MTF. *Medical Physics*, **1994**, 21, 1541-5	4.4	65
151	Monte Carlo simulation of the scattered radiation distribution in diagnostic radiology. *Medical Physics*, **1988**, 15, 713-20	4.4	60
150	Monte Carlo reference data sets for imaging research: Executive summary of the report of AAPM Research Committee Task Group 195. *Medical Physics*, **2015**, 42, 5679-91	4.4	58

149	Overview of patient dosimetry in diagnostic radiology in the USA for the past 50 years. *Medical Physics*, **2008**, 35, 5713-28	4.4	55
148	Constrained TV Minimization for Enhanced Exploitation of Gradient Sparsity: Application to CT Image Reconstruction. *IEEE Journal of Translational Engineering in Health and Medicine*, **2014**, 2,	3	54
147	Anatomical complexity in breast parenchyma and its implications for optimal breast imaging strategies. *Medical Physics*, **2012**, 39, 1435-41	4.4	52
146	Grid and slot scan scatter reduction in mammography: comparison by using Monte Carlo techniques. *Radiology*, **2002**, 222, 519-27	20.5	51
145	Neural networks in radiology: an introduction and evaluation in a signal detection task. *Medical Physics*, **1990**, 17, 234-41	4.4	50
144	Cone beam CT dosimetry: a unified and self-consistent approach including all scan modalities--with or without phantom motion. *Medical Physics*, **2010**, 37, 2703-18	4.4	49
143	Classification of breast computed tomography data. *Medical Physics*, **2008**, 35, 1078-86	4.4	49
142	Monte Carlo assessment of computed tomography dose to tissue adjacent to the scanned volume. *Medical Physics*, **2000**, 27, 2393-407	4.4	47
141	Method for evaluating bow tie filter angle-dependent attenuation in CT: theory and simulation results. *Medical Physics*, **2010**, 37, 40-8	4.4	46
140	Breast dose in mammography is about 30% lower when realistic heterogeneous glandular distributions are considered. *Medical Physics*, **2015**, 42, 6337-48	4.4	44
139	Dedicated breast computed tomography: the optimal cross-sectional imaging solution?. *Radiologic Clinics of North America*, **2010**, 48, 1043-54	2.3	42
138	Noise power properties of a cone-beam CT system for breast cancer detection. *Medical Physics*, **2008**, 35, 5317-27	4.4	42
137	Monte Carlo validation in diagnostic radiological imaging. *Medical Physics*, **2000**, 27, 1294-304	4.4	42
136	PET characteristics of a dedicated breast PET/CT scanner prototype. *Physics in Medicine and Biology*, **2009**, 54, 4273-87	3.8	41
135	Investigation of iterative image reconstruction in low-dose breast CT. *Physics in Medicine and Biology*, **2014**, 59, 2659-85	3.8	40
134	Association between power law coefficients of the anatomical noise power spectrum and lesion detectability in breast imaging modalities. *Physics in Medicine and Biology*, **2013**, 58, 1663-81	3.8	40
133	Computed tomography use in a tertiary care university hospital. *Journal of the American College of Radiology*, **2008**, 5, 132-8	3.5	40
132	Experimental validation of a method characterizing bow tie filters in CT scanners using a real-time dose probe. *Medical Physics*, **2011**, 38, 1406-15	4.4	39

131	Breast CT: potential for breast cancer screening and diagnosis. *Future Oncology*, **2006**, 2, 351-6	3.6	39
130	Simulation of mechanical compression of breast tissue. *IEEE Transactions on Biomedical Engineering*, **2007**, 54, 1885-91	5	35
129	Radiological interpretation 2020: toward quantitative image assessment. *Medical Physics*, **2007**, 34, 4173-9	4.4	35
128	An edge spread technique for measurement of the scatter-to-primary ratio in mammography. *Medical Physics*, **2000**, 27, 845-53	4.4	35
127	A Monte Carlo study of x-ray fluorescence in x-ray detectors. *Medical Physics*, **1999**, 26, 905-16	4.4	35
126	Recognition of chest radiograph orientation for picture archiving and communications systems display using neural networks. *Journal of Digital Imaging*, **1992**, 5, 190-3	5.3	35
125	Evaluation of scatter effects on image quality for breast tomosynthesis. *Medical Physics*, **2009**, 36, 4425-32	4.4	34
124	The three parameter equivalent spectra as an index of beam quality. *Medical Physics*, **1988**, 15, 304-10	4.4	34
123	Evolution of spatial resolution in breast CT at UC Davis. *Medical Physics*, **2015**, 42, 1973-81	4.4	33
122	Monte Carlo evaluation of CTD(infinity) in infinitely long cylinders of water, polyethylene and PMMA with diameters from 10 mm to 500 mm. *Medical Physics*, **2008**, 35, 2424-31	4.4	32
121	Dose spread functions in computed tomography: a Monte Carlo study. *Medical Physics*, **2009**, 36, 4547-54	4.4	31
120	Computer modeling of the spatial resolution properties of a dedicated breast CT system. *Medical Physics*, **2007**, 34, 2059-69	4.4	31
119	A comparison of mono- and poly-energetic x-ray beam performance for radiographic and fluoroscopic imaging. *Medical Physics*, **1994**, 21, 1853-63	4.4	30
118	Generation and analysis of clinically relevant breast imaging x-ray spectra. *Medical Physics*, **2017**, 44, 2148-2160	4.4	29
117	Predictors of CT Radiation Dose and Their Effect on Patient Care: A Comprehensive Analysis Using Automated Data. *Radiology*, **2017**, 282, 182-193	20.5	29
116	High-resolution (18)F-FDG PET/CT for assessing disease activity in rheumatoid and psoriatic arthritis: findings of a prospective pilot study. *British Journal of Radiology*, **2016**, 89, 20160138	3.4	28
115	Differentiation of ductal carcinoma in-situ from benign micro-calcifications by dedicated breast computed tomography. *European Journal of Radiology*, **2016**, 85, 297-303	4.7	27
114	3D-printed breast phantom for multi-purpose and multi-modality imaging. *Quantitative Imaging in Medicine and Surgery*, **2019**, 9, 63-74	3.6	25

113	Methods for CT automatic exposure control protocol translation between scanner platforms. *Journal of the American College of Radiology*, **2014**, 11, 285-91	3.5	25
112	Level set segmentation of breast masses in contrast-enhanced dedicated breast CT and evaluation of stopping criteria. *Journal of Digital Imaging*, **2014**, 27, 237-47	5.3	22
111	Investigation of asphalt concrete rutting mechanisms by X-ray computed tomography imaging and micromechanical finite element modeling. *Materials and Structures/Materiaux Et Constructions*, **2013**, 46, 1027-1043	3.4	22
110	Dose is not always what it seems: where very misleading values can result from volume CT dose index and dose length product. *Journal of the American College of Radiology*, **2014**, 11, 233-7	3.5	22
109	Analytical equations for CT dose profiles derived using a scatter kernel of Monte Carlo parentage with broad applicability to CT dosimetry problems. *Medical Physics*, **2011**, 38, 4251-64	4.4	22
108	Kilovoltage rotational external beam radiotherapy on a breast computed tomography platform: a feasibility study. *International Journal of Radiation Oncology Biology Physics*, **2012**, 84, 533-9	4	21
107	Effect of slice thickness on detectability in breast CT using a prewhitened matched filter and simulated mass lesions. *Medical Physics*, **2012**, 39, 1818-30	4.4	21
106	Studies of a prototype linear stationary x-ray source for tomosynthesis imaging. *Physics in Medicine and Biology*, **2014**, 59, 2393-413	3.8	20
105	Experimentally determined spectral optimization for dedicated breast computed tomography. *Medical Physics*, **2011**, 38, 646-55	4.4	20
104	Dedicated breast computed tomography: volume image denoising via a partial-diffusion equation based technique. *Medical Physics*, **2008**, 35, 1950-8	4.4	20
103	Scatter correction algorithm for digitally acquired radiographs: theory and results. *Medical Physics*, **1986**, 13, 319-28	4.4	20
102	Mean glandular dose coefficients (D(g)N) for x-ray spectra used in contemporary breast imaging systems. *Physics in Medicine and Biology*, **2015**, 60, 7179-90	3.8	19
101	Reply to "Comment on the 'Report of AAPM TG 204: Size-specific dose estimates (SSDE) in pediatric and adult body CT examinations'" [AAPM Report 204, 2011]. *Medical Physics*, **2012**, 39, 4615-4616	4.4	19
100	A breast density index for digital mammograms based on radiologists' ranking. *Journal of Digital Imaging*, **1998**, 11, 101-15	5.3	19
99	A survey of fluoroscopic exposure rates: AAPM Task Group No. 11 Report. *Medical Physics*, **1993**, 20, 789-94	4.4	19
98	Parametrized x-ray absorption in diagnostic radiology from Monte Carlo calculations: implications for x-ray detector design. *Medical Physics*, **1992**, 19, 1467-73	4.4	19
97	An unsupervised automatic segmentation algorithm for breast tissue classification of dedicated breast computed tomography images. *Medical Physics*, **2018**, 45, 2542-2559	4.4	17
96	Scintillating fiber optic screens: a comparison of MTF, light conversion efficiency, and emission angle with Gd2O2S:Tb screens. *Medical Physics*, **1997**, 24, 279-85	4.4	17

95	Radiation dose reduction for augmentation mammography. *American Journal of Roentgenology*, **2007**, 188, 1414-21	5.4	17
94	Opportunistic Screening for Osteoporosis Using Computed Tomography: State of the Art and Argument for Paradigm Shift. *Current Rheumatology Reports*, **2018**, 20, 74	4.9	17
93	Augmented Reality: Advances in Diagnostic Imaging. *Multimodal Technologies and Interaction*, **2017**, 1, 29	1.7	16
92	Non-Gaussian statistical properties of breast images. *Medical Physics*, **2012**, 39, 7121-30	4.4	16
91	Development and Monte Carlo analysis of antiscatter grids for mammography. *Technology in Cancer Research and Treatment*, **2002**, 1, 441-7	2.7	16
90	Monte Carlo evaluation of glandular dose in cone-beam X-ray computed tomography dedicated to the breast: Homogeneous and heterogeneous breast models. *Physica Medica*, **2018**, 51, 99-107	2.7	15
89	Segmentation of breast masses on dedicated breast computed tomography and three-dimensional breast ultrasound images. *Journal of Medical Imaging*, **2014**, 1, 014501	2.6	15
88	Comprehensive assessment of the slice sensitivity profiles in breast tomosynthesis and breast CT. *Medical Physics*, **2012**, 39, 7254-61	4.4	15
87	Local curvature analysis for classifying breast tumors: Preliminary analysis in dedicated breast CT. *Medical Physics*, **2015**, 42, 5479-89	4.4	14
86	An X-Ray computed tomography/positron emission tomography system designed specifically for breast imaging. *Technology in Cancer Research and Treatment*, **2010**, 9, 29-44	2.7	14
85	Equivalent spectra as a measure of beam quality. *Medical Physics*, **1986**, 13, 861-8	4.4	14
84	Estimating the relative utility of screening mammography. *Medical Decision Making*, **2013**, 33, 510-20	2.5	13
83	Performance assessment of a pendant-geometry CT scanner for breast cancer detection **2005**,		13
82	Mammography spectrum measurement using an x-ray diffraction device. *Physics in Medicine and Biology*, **1998**, 43, 2569-82	3.8	13
81	Cassette-based digital mammography. *Technology in Cancer Research and Treatment*, **2004**, 3, 413-27	2.7	12
80	Sinusoidal modulation analysis for optical system MTF measurements. *Medical Physics*, **1996**, 23, 1955-63	4.4	12
79	Conspicuity of suspicious breast lesions on contrast enhanced breast CT compared to digital breast tomosynthesis and mammography. *British Journal of Radiology*, **2019**, 92, 20181034	3.4	11
78	Real-time dosimeter employed to evaluate the half-value layer in CT. *Physics in Medicine and Biology* , **2014**, 59, 363-77	3.8	11

77	Average glandular dose coefficients for pendant-geometry breast CT using realistic breast phantoms. *Medical Physics*, **2017**, 44, 5096-5105	4.4	11
76	Stationary table CT dosimetry and anomalous scanner-reported values of CTDIvol. *Medical Physics*, **2014**, 41, 011907	4.4	11
75	Lens coupling efficiency: derivation and application under differing geometrical assumptions. *Medical Physics*, **1997**, 24, 565-70	4.4	11
74	Updated breast CT dose coefficients (DgN) using patient-derived breast shapes and heterogeneous fibroglandular distributions. *Medical Physics*, **2019**, 46, 1455-1466	4.4	10
73	Shading artifact correction in breast CT using an interleaved deep learning segmentation and maximum-likelihood polynomial fitting approach. *Medical Physics*, **2019**, 46, 3414-3430	4.4	10
72	An open environment CT-US fusion for tissue segmentation during interventional guidance. *PLoS ONE*, **2011**, 6, e27372	3.7	10
71	An Ideal Observer for a Model of X-Ray Imaging in Breast Parenchymal Tissue. *Lecture Notes in Computer Science*, **2008**, 393-400	0.9	10
70	Effects of kV, filtration, dose, and object size on soft tissue and iodine contrast in dedicated breast CT. *Medical Physics*, **2020**, 47, 2869-2880	4.4	9
69	Non-rigid registration of serial dedicated breast CT, longitudinal dedicated breast CT and PET/CT images using the diffeomorphic demons method. *Physica Medica*, **2014**, 30, 713-7	2.7	9
68	Radiation dose and safety: informatics standards and tools. *Journal of the American College of Radiology*, **2014**, 11, 1286-97	3.5	9
67	Development of a patient-specific two-compartment anthropomorphic breast phantom. *Physics in Medicine and Biology*, **2012**, 57, 4293-307	3.8	9
66	A multiple detector array helical x-ray microtomography system for specimen imaging. *Medical Physics*, **1999**, 26, 1708-13	4.4	9
65	Dataset of patient-derived digital breast phantoms for in silico studies in breast computed tomography, digital breast tomosynthesis, and digital mammography. *Medical Physics*, **2021**, 48, 2682-2693	4.4	9
64	The Effect of Iodine-based Contrast Material on Radiation Dose at CT: It's Complicated. *Radiology*, **2017**, 283, 624-627	20.5	8
63	Impact of lesion segmentation metrics on computer-aided diagnosis/detection in breast computed tomography. *Journal of Medical Imaging*, **2014**, 1, 031012	2.6	8
62	Two-dimensional breast dosimetry improved using three-dimensional breast image data. *Radiological Physics and Technology*, **2017**, 10, 129-141	1.7	7
61	Angiographic film subtraction using a laser digitizer and computer processing. *Journal of Digital Imaging*, **1998**, 11, 159-67	5.3	7
60	A Figure of Merit Comparison between Bremsstrahlung and Monoenergetic X-Ray Sources for Angiography. *Journal of X-Ray Science and Technology*, **1994**, 4, 334-45	2.1	7

59	Estimating a size-specific dose for helical head CT examinations using Monte Carlo simulation methods. *Medical Physics*, **2019**, 46, 902-912	4.4	7
58	JOURNAL CLUB: Quantification of Fetal Dose Reduction if Abdominal CT Is Limited to the Top of the Iliac Crests in Pregnant Patients With Trauma. *American Journal of Roentgenology*, **2016**, 206, 705-12	5.4	6
57	What parameters are most accurate in predicting appropriate technique factors for CT scanning?. *Radiology*, **2005**, 236, 377-8	20.5	6
56	Optimal reconstruction and quantitative image features for computer-aided diagnosis tools for breast CT. *Medical Physics*, **2017**, 44, 1846-1856	4.4	5
55	Analysis of breast CT lesions using computer-aided diagnosis: an application of neural networks on extracted morphologic and texture features **2012**,		5
54	Three-dimensional computer generated breast phantom based on empirical data **2008**,		5
53	Characteristics of the PET Component of a Dedicated Breast PET/CT Scanner Prototype **2006**,		5
52	Filter wheel equalization for chest radiography: a computer simulation. *Medical Physics*, **1995**, 22, 1029-37	4.4	5
51	Dedicated Breast CT: Screening Technique of the Future. *Current Breast Cancer Reports*, **2016**, 8, 242-247	0.8	4
50	Small-Animal X-ray Dose from Micro-CT. *Molecular Imaging*, **2004**, 3, 153535002004041	3.7	4
49	The Effect of Breast Density on Cancer Detection Performance in Mammography. *Journal of Women's Imaging*, **2001**, 3, 122-128		4
48	Neutrosophic segmentation of breast lesions for dedicated breast computed tomography. *Journal of Medical Imaging*, **2018**, 5, 014505	2.6	4
47	Anthropomorphic Physical Breast Phantom Based on Patient Breast CT Data: Preliminary Results. *IFMBE Proceedings*, **2020**, 367-374	0.2	4
46	Multi-marker quantitative radiomics for mass characterization in dedicated breast CT imaging. *Medical Physics*, **2021**, 48, 313-328	4.4	4
45	Fibroglandular tissue distribution in the breast during mammography and tomosynthesis based on breast CT data: A patient-based characterization of the breast parenchyma. *Medical Physics*, **2021**, 48, 1436-1447	4.4	4
44	Monte Carlo Basics for Radiation Dose Assessment in Diagnostic Radiology. *Journal of the American College of Radiology*, **2017**, 14, 793-794	3.5	3
43	Classification images for localization performance in ramp-spectrum noise. *Medical Physics*, **2018**, 45, 1970-1984	4.4	3
42	A Call for the Structured Physicist Report. *Journal of the American College of Radiology*, **2016**, 13, 307-9	3.5	3

41	Comparative statistical properties of expected utility and area under the ROC curve for laboratory studies of observer performance in screening mammography. *Academic Radiology*, **2014**, 21, 481-90	4.3	3
40	Improving the spatial resolution characteristics of dedicated cone-beam breast CT technology **2014** ,		3
39	Dose equations for shift-variant CT acquisition modes using variable pitch, tube current, and aperture, and the meaning of their associated CTDI(vol). *Medical Physics*, **2014**, 41, 111906	4.4	3
38	A semiempirical linear model of indirect, flat-panel x-ray detectors. *Medical Physics*, **2012**, 39, 2108-18	4.4	3
37	Multimodality high resolution wrist imaging for monitoring response to therapy in rheumatoid arthritis: Instrumentation and techniques **2008**,		3
36	Evaluation of non-Gaussian statistical properties in virtual breast phantoms. *Journal of Medical Imaging*, **2019**, 6, 025502	2.6	3
35	Cone beam CT multisource configurations: evaluating image quality, scatter, and dose using phantom imaging and Monte Carlo simulations. *Physics in Medicine and Biology*, **2020**, 65, 235032	3.8	3
34	Location and direction dependence in the 3D MTF for a high-resolution CT system. *Medical Physics*, **2021**, 48, 2760-2771	4.4	3
33	The Napoli-Varna-Davis project for virtual clinical trials in X-ray breast imaging **2019**,		3
32	Contrast-enhanced dedicated breast CT detection of invasive breast cancer preceding mammographic diagnosis. *Radiology Case Reports*, **2015**, 10, 936	1	2
31	NPS comparison of anatomical noise characteristics in mammography, tomosynthesis, and breast CT images using power law metrics **2011**,		2
30	A preliminary investigation of reduced-view image reconstruction from low dose breast CT data **2012**,		2
29	Computerized 3D breast phantom with enhanced high-resolution detail **2009**,		2
28	Fast arbitrary-slice CT reconstruction with GPUs **2007**,		2
27	Dedicated Breast CT for Breast Cancer Screening. *AIP Conference Proceedings*, **2003**,	0	2
26	Determining sensitivity of mammography from screening data, cancer incidence, and receiver-operating characteristic curve parameters. *Medical Decision Making*, **2002**, 22, 228-37	2.5	2
25	Multi-x-ray source array for stationary tomosynthesisor multi-cone angle cone beam CT **2019**,		2
24	Mammography dose estimates do not reflect any specific patient's breast dose. *European Journal of Radiology*, **2020**, 131, 109216	4.7	2

23	Validation of synthesized normal-resolution image data generated from high-resolution acquisitions on a commercial CT scanner. *Medical Physics*, **2020**, 47, 4775-4785	4.4	2
22	Computed tomography turns 50. *Physics Today*, **2021**, 74, 34-40	0.9	2
21	Lack of agreement between radiologists: implications for image-based model observers. *Journal of Medical Imaging*, **2017**, 4, 025502	2.6	1
20	A Utility/Cost Analysis of Breast Cancer Risk Prediction Algorithms. *Proceedings of SPIE*, **2016**, 9787,	1.7	1
19	Neutrosophic segmentation of breast lesions for dedicated breast CT **2017**,		1
18	Higher-order scene statistics of breast images **2009**,		1
17	Evaluation of the additive noise of a flat panel detector and its effect on cone-beam CT applications **2009**,		1
16	Scattered energy deposition under shielding. *Investigative Radiology*, **1988**, 23, 627-31	10.1	1
15	Numerically estimating rock frame properties of a mixed calcite and dolomite hand sample using computed tomography (CT) **2019**,		1
14	Augmented Reality Imaging System: 3D Viewing of a Breast Cancer. *Journal of Nature and Science*, **2016**, 2,		1
13	Breast Cancer Screening using a Dedicated Breast CT Scanner: A Feasibility Study **2003**, 6-11		1
12	Multisource x-ray system for artifact reduction in dedicated breast CT **2018**,		1
11	Simulation and Phantom Studies of Contrast-Enhanced Dual Energy Mammography (CEDEM). *Lecture Notes in Computer Science*, **2008**, 124-129	0.9	1
10	Ideal Observer Comparison between Tomographic and Projection x-Ray Images of the Breast. *Lecture Notes in Computer Science*, **2010**, 591-597	0.9	1
9	A prototype Multi-X-ray-source array (MXA) for digital breast tomosynthesis. *Physics in Medicine and Biology*, **2020**, 65, 235033	3.8	1
8	High-resolution imaging for characterizing microcalcification detection performance in breast CT. *Journal of Medical Imaging*, **2021**, 8, 052107	2.6	1
7	Quantification of airway dimensions using a high-resolution CT scanner: A phantom study. *Medical Physics*, **2021**, 48, 5874-5883	4.4	1
6	Phantom-based standardization of CT angiography images for spot sign detection. *Neuroradiology*, **2017**, 59, 839-844	3.2	0

5	Computer-aided diagnosis of masses in breast computed tomography imaging: deep learning model with combined handcrafted and convolutional radiomic features. *Journal of Medical Imaging*, **2021**, 8, 024501	2.6	0
4	Theory, method, and test tools for determination of 3D MTF characteristics in cone-beam CT. *Medical Physics*, **2021**, 48, 2772-2789	4.4	0
3	Comparisons of glandular breast dose between digital mammography, tomosynthesis and breast CT based on anthropomorphic patient-derived breast phantoms.. *Physica Medica*, **2022**, 97, 50-58	2.7	0
2	Relationship between computer segmentation performance and computer classification performance in breast CT: A simulation study using RGI segmentation and LDA classification. *Medical Physics*, **2018**, 45, 3650	4.4	
1	Response to Comment on A Monte Carlo study of x-ray fluorescence in x-ray detectors[Med. Phys. 26, 2706 (1999)]. *Medical Physics*, **1999**, 26, 2707-2707	4.4	