

John M Boone

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Comparisons of glandular breast dose between digital mammography, tomosynthesis and breast CT based on anthropomorphic patient-derived breast phantoms.. <i>Physica Medica</i> , 2022 , 97, 50-58	2.7	0
183	Computer-aided diagnosis of masses in breast computed tomography imaging: deep learning model with combined handcrafted and convolutional radiomic features. <i>Journal of Medical Imaging</i> , 2021 , 8, 024501	2.6	0
182	Dataset of patient-derived digital breast phantoms for in silico studies in breast computed tomography, digital breast tomosynthesis, and digital mammography. <i>Medical Physics</i> , 2021 , 48, 2682-2694	4.4	9
181	Location and direction dependence in the 3D MTF for a high-resolution CT system. <i>Medical Physics</i> , 2021 , 48, 2760-2771	4.4	3
180	Theory, method, and test tools for determination of 3D MTF characteristics in cone-beam CT. <i>Medical Physics</i> , 2021 , 48, 2772-2789	4.4	0
179	Multi-marker quantitative radiomics for mass characterization in dedicated breast CT imaging. <i>Medical Physics</i> , 2021 , 48, 313-328	4.4	4
178	Fibroglandular tissue distribution in the breast during mammography and tomosynthesis based on breast CT data: A patient-based characterization of the breast parenchyma. <i>Medical Physics</i> , 2021 , 48, 1436-1447	4.4	4
177	High-resolution imaging for characterizing microcalcification detection performance in breast CT. <i>Journal of Medical Imaging</i> , 2021 , 8, 052107	2.6	1
176	Quantification of airway dimensions using a high-resolution CT scanner: A phantom study. <i>Medical Physics</i> , 2021 , 48, 5874-5883	4.4	1
175	Computed tomography turns 50. <i>Physics Today</i> , 2021 , 74, 34-40	0.9	2
174	Effects of kV, filtration, dose, and object size on soft tissue and iodine contrast in dedicated breast CT. <i>Medical Physics</i> , 2020 , 47, 2869-2880	4.4	9
173	Anthropomorphic Physical Breast Phantom Based on Patient Breast CT Data: Preliminary Results. <i>IFMBE Proceedings</i> , 2020 , 367-374	0.2	4
172	Mammography dose estimates do not reflect any specific patient's breast dose. <i>European Journal of Radiology</i> , 2020 , 131, 109216	4.7	2
171	A prototype Multi-X-ray-source array (MXA) for digital breast tomosynthesis. <i>Physics in Medicine and Biology</i> , 2020 , 65, 235033	3.8	1
170	Cone beam CT multisource configurations: evaluating image quality, scatter, and dose using phantom imaging and Monte Carlo simulations. <i>Physics in Medicine and Biology</i> , 2020 , 65, 235032	3.8	3
169	Validation of synthesized normal-resolution image data generated from high-resolution acquisitions on a commercial CT scanner. <i>Medical Physics</i> , 2020 , 47, 4775-4785	4.4	2
168	Updated breast CT dose coefficients (DgN) using patient-derived breast shapes and heterogeneous fibroglandular distributions. <i>Medical Physics</i> , 2019 , 46, 1455-1466	4.4	10

167	Shading artifact correction in breast CT using an interleaved deep learning segmentation and maximum-likelihood polynomial fitting approach. <i>Medical Physics</i> , 2019 , 46, 3414-3430	4.4	10
166	Conspicuity of suspicious breast lesions on contrast enhanced breast CT compared to digital breast tomosynthesis and mammography. <i>British Journal of Radiology</i> , 2019 , 92, 20181034	3.4	11
165	3D-printed breast phantom for multi-purpose and multi-modality imaging. <i>Quantitative Imaging in Medicine and Surgery</i> , 2019 , 9, 63-74	3.6	25
164	Numerically estimating rock frame properties of a mixed calcite and dolomite hand sample using computed tomography (CT) 2019 ,		1
163	Multi-x-ray source array for stationary tomosynthesis or multi-cone angle cone beam CT 2019 ,		2
162	Evaluation of non-Gaussian statistical properties in virtual breast phantoms. <i>Journal of Medical Imaging</i> , 2019 , 6, 025502	2.6	3
161	The Napoli-Varna-Davis project for virtual clinical trials in X-ray breast imaging 2019 ,		3
160	Estimating a size-specific dose for helical head CT examinations using Monte Carlo simulation methods. <i>Medical Physics</i> , 2019 , 46, 902-912	4.4	7
159	An unsupervised automatic segmentation algorithm for breast tissue classification of dedicated breast computed tomography images. <i>Medical Physics</i> , 2018 , 45, 2542-2559	4.4	17
158	Classification images for localization performance in ramp-spectrum noise. <i>Medical Physics</i> , 2018 , 45, 1970-1984	4.4	3
157	Monte Carlo evaluation of glandular dose in cone-beam X-ray computed tomography dedicated to the breast: Homogeneous and heterogeneous breast models. <i>Physica Medica</i> , 2018 , 51, 99-107	2.7	15
156	Relationship between computer segmentation performance and computer classification performance in breast CT: A simulation study using RGI segmentation and LDA classification. <i>Medical Physics</i> , 2018 , 45, 3650	4.4	
155	Neutrosophic segmentation of breast lesions for dedicated breast computed tomography. <i>Journal of Medical Imaging</i> , 2018 , 5, 014505	2.6	4
154	Multisource x-ray system for artifact reduction in dedicated breast CT 2018 ,		1
153	Opportunistic Screening for Osteoporosis Using Computed Tomography: State of the Art and Argument for Paradigm Shift. <i>Current Rheumatology Reports</i> , 2018 , 20, 74	4.9	17
152	Lack of agreement between radiologists: implications for image-based model observers. <i>Journal of Medical Imaging</i> , 2017 , 4, 025502	2.6	1
151	Monte Carlo Basics for Radiation Dose Assessment in Diagnostic Radiology. <i>Journal of the American College of Radiology</i> , 2017 , 14, 793-794	3.5	3
150	The Effect of Iodine-based Contrast Material on Radiation Dose at CT: It's Complicated. <i>Radiology</i> , 2017 , 283, 624-627	20.5	8

149	Optimal reconstruction and quantitative image features for computer-aided diagnosis tools for breast CT. <i>Medical Physics</i> , 2017 , 44, 1846-1856	4.4	5
148	Generation and analysis of clinically relevant breast imaging x-ray spectra. <i>Medical Physics</i> , 2017 , 44, 2148-2160	4.7	29
147	Augmented Reality: Advances in Diagnostic Imaging. <i>Multimodal Technologies and Interaction</i> , 2017 , 1, 29	1.7	16
146	Average glandular dose coefficients for pendant-geometry breast CT using realistic breast phantoms. <i>Medical Physics</i> , 2017 , 44, 5096-5105	4.4	11
145	Phantom-based standardization of CT angiography images for spot sign detection. <i>Neuroradiology</i> , 2017 , 59, 839-844	3.2	0
144	Neutrosophic segmentation of breast lesions for dedicated breast CT 2017 ,		1
143	Two-dimensional breast dosimetry improved using three-dimensional breast image data. <i>Radiological Physics and Technology</i> , 2017 , 10, 129-141	1.7	7
142	Predictors of CT Radiation Dose and Their Effect on Patient Care: A Comprehensive Analysis Using Automated Data. <i>Radiology</i> , 2017 , 282, 182-193	20.5	29
141	Dedicated Breast CT: Screening Technique of the Future. <i>Current Breast Cancer Reports</i> , 2016 , 8, 242-247	0.8	4
140	A Utility/Cost Analysis of Breast Cancer Risk Prediction Algorithms. <i>Proceedings of SPIE</i> , 2016 , 9787,	1.7	1
139	JOURNAL CLUB: Quantification of Fetal Dose Reduction if Abdominal CT Is Limited to the Top of the Iliac Crests in Pregnant Patients With Trauma. <i>American Journal of Roentgenology</i> , 2016 , 206, 705-125	4	6
138	A Call for the Structured Physicist Report. <i>Journal of the American College of Radiology</i> , 2016 , 13, 307-9	3.5	3
137	Differentiation of ductal carcinoma in-situ from benign micro-calcifications by dedicated breast computed tomography. <i>European Journal of Radiology</i> , 2016 , 85, 297-303	4.7	27
136	Augmented Reality Imaging System: 3D Viewing of a Breast Cancer. <i>Journal of Nature and Science</i> , 2016 , 2,		1
135	High-resolution (18)F-FDG PET/CT for assessing disease activity in rheumatoid and psoriatic arthritis: findings of a prospective pilot study. <i>British Journal of Radiology</i> , 2016 , 89, 20160138	3.4	28
134	Evolution of spatial resolution in breast CT at UC Davis. <i>Medical Physics</i> , 2015 , 42, 1973-81	4.4	33
133	Monte Carlo reference data sets for imaging research: Executive summary of the report of AAPM Research Committee Task Group 195. <i>Medical Physics</i> , 2015 , 42, 5679-91	4.4	58
132	Contrast-enhanced dedicated breast CT detection of invasive breast cancer preceding mammographic diagnosis. <i>Radiology Case Reports</i> , 2015 , 10, 936	1	2

131	Breast dose in mammography is about 30% lower when realistic heterogeneous glandular distributions are considered. <i>Medical Physics</i> , 2015 , 42, 6337-48	4.4	44
130	Local curvature analysis for classifying breast tumors: Preliminary analysis in dedicated breast CT. <i>Medical Physics</i> , 2015 , 42, 5479-89	4.4	14
129	Mean glandular dose coefficients (D(g)N) for x-ray spectra used in contemporary breast imaging systems. <i>Physics in Medicine and Biology</i> , 2015 , 60, 7179-90	3.8	19
128	Level set segmentation of breast masses in contrast-enhanced dedicated breast CT and evaluation of stopping criteria. <i>Journal of Digital Imaging</i> , 2014 , 27, 237-47	5.3	22
127	Real-time dosimeter employed to evaluate the half-value layer in CT. <i>Physics in Medicine and Biology</i> , 2014 , 59, 363-77	3.8	11
126	Studies of a prototype linear stationary x-ray source for tomosynthesis imaging. <i>Physics in Medicine and Biology</i> , 2014 , 59, 2393-413	3.8	20
125	Investigation of iterative image reconstruction in low-dose breast CT. <i>Physics in Medicine and Biology</i> , 2014 , 59, 2659-85	3.8	40
124	Non-rigid registration of serial dedicated breast CT, longitudinal dedicated breast CT and PET/CT images using the diffeomorphic demons method. <i>Physica Medica</i> , 2014 , 30, 713-7	2.7	9
123	Methods for CT automatic exposure control protocol translation between scanner platforms. <i>Journal of the American College of Radiology</i> , 2014 , 11, 285-91	3.5	25
122	Comparative statistical properties of expected utility and area under the ROC curve for laboratory studies of observer performance in screening mammography. <i>Academic Radiology</i> , 2014 , 21, 481-90	4.3	3
121	Improving the spatial resolution characteristics of dedicated cone-beam breast CT technology 2014 ,		3
120	Impact of lesion segmentation metrics on computer-aided diagnosis/detection in breast computed tomography. <i>Journal of Medical Imaging</i> , 2014 , 1, 031012	2.6	8
119	Radiation dose and safety: informatics standards and tools. <i>Journal of the American College of Radiology</i> , 2014 , 11, 1286-97	3.5	9
118	Dose equations for shift-variant CT acquisition modes using variable pitch, tube current, and aperture, and the meaning of their associated CTDI(vol). <i>Medical Physics</i> , 2014 , 41, 111906	4.4	3
117	Tungsten anode spectral model using interpolating cubic splines: unfiltered x-ray spectra from 20 kV to 640 kV. <i>Medical Physics</i> , 2014 , 41, 042101	4.4	100
116	Constrained TV Minimization for Enhanced Exploitation of Gradient Sparsity: Application to CT Image Reconstruction. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2014 , 2,	3	54
115	Segmentation of breast masses on dedicated breast computed tomography and three-dimensional breast ultrasound images. <i>Journal of Medical Imaging</i> , 2014 , 1, 014501	2.6	15
114	Dose is not always what it seems: where very misleading values can result from volume CT dose index and dose length product. <i>Journal of the American College of Radiology</i> , 2014 , 11, 233-7	3.5	22

113	Stationary table CT dosimetry and anomalous scanner-reported values of CT DIvol. <i>Medical Physics</i> , 2014 , 41, 011907	4.4	11
112	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
111	Investigation of asphalt concrete rutting mechanisms by X-ray computed tomography imaging and micromechanical finite element modeling. <i>Materials and Structures/Materiaux Et Constructions</i> , 2013 , 46, 1027-1043	3.4	22
110	Estimating the relative utility of screening mammography. <i>Medical Decision Making</i> , 2013 , 33, 510-20	2.5	13
109	Association between power law coefficients of the anatomical noise power spectrum and lesion detectability in breast imaging modalities. <i>Physics in Medicine and Biology</i> , 2013 , 58, 1663-81	3.8	40
108	Kilovoltage rotational external beam radiotherapy on a breast computed tomography platform: a feasibility study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 84, 533-9	4	21
107	High-resolution spiral CT of the breast at very low dose: concept and feasibility considerations. <i>European Radiology</i> , 2012 , 22, 1-8	8	105
106	Non-Gaussian statistical properties of breast images. <i>Medical Physics</i> , 2012 , 39, 7121-30	4.4	16
105	Comprehensive assessment of the slice sensitivity profiles in breast tomosynthesis and breast CT. <i>Medical Physics</i> , 2012 , 39, 7254-61	4.4	15
104	A semiempirical linear model of indirect, flat-panel x-ray detectors. <i>Medical Physics</i> , 2012 , 39, 2108-18	4.4	3
103	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. <i>Radiology</i> , 2012 , 265, 544-54	20.5	69
102	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]. <i>Medical Physics</i> , 2012 , 39, 4615-4616	4.4	19
101	Development of a patient-specific two-compartment anthropomorphic breast phantom. <i>Physics in Medicine and Biology</i> , 2012 , 57, 4293-307	3.8	9
100	A preliminary investigation of reduced-view image reconstruction from low dose breast CT data 2012 ,		2
99	Anatomical complexity in breast parenchyma and its implications for optimal breast imaging strategies. <i>Medical Physics</i> , 2012 , 39, 1435-41	4.4	52
98	Analysis of breast CT lesions using computer-aided diagnosis: an application of neural networks on extracted morphologic and texture features 2012 ,		5
97	Effect of slice thickness on detectability in breast CT using a prewhitened matched filter and simulated mass lesions. <i>Medical Physics</i> , 2012 , 39, 1818-30	4.4	21
96	An open environment CT-US fusion for tissue segmentation during interventional guidance. <i>PLoS ONE</i> , 2011 , 6, e27372	3.7	10

95	Experimentally determined spectral optimization for dedicated breast computed tomography. <i>Medical Physics</i> , 2011 , 38, 646-55	4.4	20
94	Experimental validation of a method characterizing bow tie filters in CT scanners using a real-time dose probe. <i>Medical Physics</i> , 2011 , 38, 1406-15	4.4	39
93	Analytical equations for CT dose profiles derived using a scatter kernel of Monte Carlo parentage with broad applicability to CT dosimetry problems. <i>Medical Physics</i> , 2011 , 38, 4251-64	4.4	22
92	NPS comparison of anatomical noise characteristics in mammography, tomosynthesis, and breast CT images using power law metrics 2011 ,		2
91	An X-Ray computed tomography/positron emission tomography system designed specifically for breast imaging. <i>Technology in Cancer Research and Treatment</i> , 2010 , 9, 29-44	2.7	14
90	Contrast-enhanced dedicated breast CT: initial clinical experience. <i>Radiology</i> , 2010 , 256, 714-23	20.5	153
89	Dedicated breast computed tomography: the optimal cross-sectional imaging solution?. <i>Radiologic Clinics of North America</i> , 2010 , 48, 1043-54	2.3	42
88	Method for evaluating bow tie filter angle-dependent attenuation in CT: theory and simulation results. <i>Medical Physics</i> , 2010 , 37, 40-8	4.4	46
87	Cone beam CT dosimetry: a unified and self-consistent approach including all scan modalities--with or without phantom motion. <i>Medical Physics</i> , 2010 , 37, 2703-18	4.4	49
86	Ideal Observer Comparison between Tomographic and Projection x-Ray Images of the Breast. <i>Lecture Notes in Computer Science</i> , 2010 , 591-597	0.9	1
85	Initial characterization of a dedicated breast PET/CT scanner during human imaging. <i>Journal of Nuclear Medicine</i> , 2009 , 50, 1401-8	8.9	90
84	Methodology for generating a 3D computerized breast phantom from empirical data. <i>Medical Physics</i> , 2009 , 36, 3122-31	4.4	76
83	Dose spread functions in computed tomography: a Monte Carlo study. <i>Medical Physics</i> , 2009 , 36, 4547-54	4.4	31
82	PET characteristics of a dedicated breast PET/CT scanner prototype. <i>Physics in Medicine and Biology</i> , 2009 , 54, 4273-87	3.8	41
81	Evaluation of scatter effects on image quality for breast tomosynthesis. <i>Medical Physics</i> , 2009 , 36, 4425-34	4.4	34
80	Computerized 3D breast phantom with enhanced high-resolution detail 2009 ,		2
79	Higher-order scene statistics of breast images 2009 ,		1
78	Evaluation of the additive noise of a flat panel detector and its effect on cone-beam CT applications 2009 ,		1

77	Noise power properties of a cone-beam CT system for breast cancer detection. <i>Medical Physics</i> , 2008 , 35, 5317-27	4.4	42
76	Computed tomography use in a tertiary care university hospital. <i>Journal of the American College of Radiology</i> , 2008 , 5, 132-8	3.5	40
75	Three-dimensional computer generated breast phantom based on empirical data 2008 ,		5
74	Multimodality high resolution wrist imaging for monitoring response to therapy in rheumatoid arthritis: Instrumentation and techniques 2008 ,		3
73	Overview of patient dosimetry in diagnostic radiology in the USA for the past 50 years. <i>Medical Physics</i> , 2008 , 35, 5713-28	4.4	55
72	Classification of breast computed tomography data. <i>Medical Physics</i> , 2008 , 35, 1078-86	4.4	49
71	Characterizing anatomical variability in breast CT images. <i>Medical Physics</i> , 2008 , 35, 4685-94	4.4	75
70	Dedicated breast CT: initial clinical experience. <i>Radiology</i> , 2008 , 246, 725-33	20.5	288
69	Monte Carlo evaluation of CTD(infinity) in infinitely long cylinders of water, polyethylene and PMMA with diameters from 10 mm to 500 mm. <i>Medical Physics</i> , 2008 , 35, 2424-31	4.4	32
68	Dedicated breast computed tomography: volume image denoising via a partial-diffusion equation based technique. <i>Medical Physics</i> , 2008 , 35, 1950-8	4.4	20
67	The effect of skin thickness determined using breast CT on mammographic dosimetry. <i>Medical Physics</i> , 2008 , 35, 1199-206	4.4	85
66	Simulation and Phantom Studies of Contrast-Enhanced Dual Energy Mammography (CEDEM). <i>Lecture Notes in Computer Science</i> , 2008 , 124-129	0.9	1
65	An Ideal Observer for a Model of X-Ray Imaging in Breast Parenchymal Tissue. <i>Lecture Notes in Computer Science</i> , 2008 , 393-400	0.9	10
64	Simulation of mechanical compression of breast tissue. <i>IEEE Transactions on Biomedical Engineering</i> , 2007 , 54, 1885-91	5	35
63	Evaluation of the spatial resolution characteristics of a cone-beam breast CT scanner. <i>Medical Physics</i> , 2007 , 34, 275-81	4.4	102
62	Radiation dose reduction for augmentation mammography. <i>American Journal of Roentgenology</i> , 2007 , 188, 1414-21	5.4	17
61	Radiological interpretation 2020: toward quantitative image assessment. <i>Medical Physics</i> , 2007 , 34, 4173-9	4.4	35
60	The trouble with CTD100. <i>Medical Physics</i> , 2007 , 34, 1364-71	4.4	129

59	Computer modeling of the spatial resolution properties of a dedicated breast CT system. <i>Medical Physics</i> , 2007 , 34, 2059-69	4.4	31
58	Fast arbitrary-slice CT reconstruction with GPUs 2007 ,		2
57	Characteristics of the PET Component of a Dedicated Breast PET/CT Scanner Prototype 2006 ,		5
56	Breast CT: potential for breast cancer screening and diagnosis. <i>Future Oncology</i> , 2006 , 2, 351-6	3.6	39
55	A geometric calibration method for cone beam CT systems. <i>Medical Physics</i> , 2006 , 33, 1695-706	4.4	130
54	Computed tomography for imaging the breast. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2006 , 11, 103-11	2.4	125
53	Performance assessment of a pendant-geometry CT scanner for breast cancer detection 2005 ,		13
52	What parameters are most accurate in predicting appropriate technique factors for CT scanning?. <i>Radiology</i> , 2005 , 236, 377-8	20.5	6
51	Evaluation of x-ray scatter properties in a dedicated cone-beam breast CT scanner. <i>Medical Physics</i> , 2005 , 32, 2967-75	4.4	82
50	Technique factors and their relationship to radiation dose in pendant geometry breast CT. <i>Medical Physics</i> , 2005 , 32, 3767-76	4.4	97
49	Small-Animal X-ray Dose from Micro-CT. <i>Molecular Imaging</i> , 2004 , 3, 153535002004041	3.7	4
48	Cassette-based digital mammography. <i>Technology in Cancer Research and Treatment</i> , 2004 , 3, 413-27	2.7	12
47	Small-animal X-ray dose from micro-CT. <i>Molecular Imaging</i> , 2004 , 3, 149-58	3.7	149
46	Dedicated Breast CT for Breast Cancer Screening. <i>AIP Conference Proceedings</i> , 2003 ,	0	2
45	Dose reduction in pediatric CT: a rational approach. <i>Radiology</i> , 2003 , 228, 352-60	20.5	213
44	Breast Cancer Screening using a Dedicated Breast CT Scanner: A Feasibility Study 2003 , 6-11		1
43	Pulmonary embolism in pregnant patients: fetal radiation dose with helical CT. <i>Radiology</i> , 2002 , 224, 487-92	20.5	265
42	Grid and slot scan scatter reduction in mammography: comparison by using Monte Carlo techniques. <i>Radiology</i> , 2002 , 222, 519-27	20.5	51

41	Development and Monte Carlo analysis of antiscatter grids for mammography. <i>Technology in Cancer Research and Treatment</i> , 2002 , 1, 441-7	2.7	16
40	Normalized glandular dose (DgN) coefficients for arbitrary X-ray spectra in mammography: computer-fit values of Monte Carlo derived data. <i>Medical Physics</i> , 2002 , 29, 869-75	4.4	148
39	Determining sensitivity of mammography from screening data, cancer incidence, and receiver-operating characteristic curve parameters. <i>Medical Decision Making</i> , 2002 , 22, 228-37	2.5	2
38	Dedicated breast CT: radiation dose and image quality evaluation. <i>Radiology</i> , 2001 , 221, 657-67	20.5	395
37	Determination of the presampled MTF in computed tomography. <i>Medical Physics</i> , 2001 , 28, 356-60	4.4	119
36	The Effect of Breast Density on Cancer Detection Performance in Mammography. <i>Journal of Women's Imaging</i> , 2001 , 3, 122-128		4
35	Monte Carlo assessment of computed tomography dose to tissue adjacent to the scanned volume. <i>Medical Physics</i> , 2000 , 27, 2393-407	4.4	47
34	Monte Carlo validation in diagnostic radiological imaging. <i>Medical Physics</i> , 2000 , 27, 1294-304	4.4	42
33	Scatter/primary in mammography: Monte Carlo validation. <i>Medical Physics</i> , 2000 , 27, 1818-31	4.4	80
32	Scatter/primary in mammography: comprehensive results. <i>Medical Physics</i> , 2000 , 27, 2408-16	4.4	111
31	An edge spread technique for measurement of the scatter-to-primary ratio in mammography. <i>Medical Physics</i> , 2000 , 27, 845-53	4.4	35
30	Response to [Comment on A Monte Carlo study of x-ray fluorescence in x-ray detectors][Med. Phys. 26, 2706 (1999)]. <i>Medical Physics</i> , 1999 , 26, 2707-2707	4.4	
29	A multiple detector array helical x-ray microtomography system for specimen imaging. <i>Medical Physics</i> , 1999 , 26, 1708-13	4.4	9
28	Glandular breast dose for monoenergetic and high-energy X-ray beams: Monte Carlo assessment. <i>Radiology</i> , 1999 , 213, 23-37	20.5	209
27	A Monte Carlo study of x-ray fluorescence in x-ray detectors. <i>Medical Physics</i> , 1999 , 26, 905-16	4.4	35
26	A breast density index for digital mammograms based on radiologists' ranking. <i>Journal of Digital Imaging</i> , 1998 , 11, 101-15	5.3	19
25	Angiographic film subtraction using a laser digitizer and computer processing. <i>Journal of Digital Imaging</i> , 1998 , 11, 159-67	5.3	7
24	Mammography spectrum measurement using an x-ray diffraction device. <i>Physics in Medicine and Biology</i> , 1998 , 43, 2569-82	3.8	13

23	Scintillating fiber optic screens: a comparison of MTF, light conversion efficiency, and emission angle with Gd ₂ O ₂ S:Tb screens. <i>Medical Physics</i> , 1997 , 24, 279-85	4.4	17
22	Lens coupling efficiency: derivation and application under differing geometrical assumptions. <i>Medical Physics</i> , 1997 , 24, 565-70	4.4	11
21	Molybdenum, rhodium, and tungsten anode spectral models using interpolating polynomials with application to mammography. <i>Medical Physics</i> , 1997 , 24, 1863-74	4.4	33 ^o
20	An accurate method for computer-generating tungsten anode x-ray spectra from 30 to 140 kV. <i>Medical Physics</i> , 1997 , 24, 1661-70	4.4	48 ²
19	Comparison of x-ray cross sections for diagnostic and therapeutic medical physics. <i>Medical Physics</i> , 1996 , 23, 1997-2005	4.4	144
18	Sinusoidal modulation analysis for optical system MTF measurements. <i>Medical Physics</i> , 1996 , 23, 1955-63	4.4	12
17	Filter wheel equalization for chest radiography: a computer simulation. <i>Medical Physics</i> , 1995 , 22, 1029-37	4.4	5
16	A fully automated algorithm for the segmentation of lung fields on digital chest radiographic images. <i>Medical Physics</i> , 1995 , 22, 183-91	4.4	7 ^o
15	A Figure of Merit Comparison between Bremsstrahlung and Monoenergetic X-Ray Sources for Angiography. <i>Journal of X-Ray Science and Technology</i> , 1994 , 4, 334-45	2.1	7
14	A comparison of mono- and poly-energetic x-ray beam performance for radiographic and fluoroscopic imaging. <i>Medical Physics</i> , 1994 , 21, 1853-63	4.4	3 ^o
13	An analytical edge spread function model for computer fitting and subsequent calculation of the LSF and MTF. <i>Medical Physics</i> , 1994 , 21, 1541-5	4.4	65
12	A survey of fluoroscopic exposure rates: AAPM Task Group No. 11 Report. <i>Medical Physics</i> , 1993 , 20, 789-94	4.4	19
11	Parametrized x-ray absorption in diagnostic radiology from Monte Carlo calculations: implications for x-ray detector design. <i>Medical Physics</i> , 1992 , 19, 1467-73	4.4	19
10	Recognition of chest radiograph orientation for picture archiving and communications systems display using neural networks. <i>Journal of Digital Imaging</i> , 1992 , 5, 190-3	5.3	35
9	Analysis and correction of imperfections in the image intensifier-TV-digitizer imaging chain. <i>Medical Physics</i> , 1991 , 18, 236-42	4.4	7 ¹
8	Neural networks in radiology: an introduction and evaluation in a signal detection task. <i>Medical Physics</i> , 1990 , 17, 234-41	4.4	5 ^o
7	Dual-energy mammography: a detector analysis. <i>Medical Physics</i> , 1990 , 17, 665-75	4.4	67
6	Monte Carlo simulation of the scattered radiation distribution in diagnostic radiology. <i>Medical Physics</i> , 1988 , 15, 713-20	4.4	6 ^o

5	An analytical model of the scattered radiation distribution in diagnostic radiology. <i>Medical Physics</i> , 1988 , 15, 721-5	4.4	83
4	The three parameter equivalent spectra as an index of beam quality. <i>Medical Physics</i> , 1988 , 15, 304-10	4.4	34
3	Scattered energy deposition under shielding. <i>Investigative Radiology</i> , 1988 , 23, 627-31	10.1	1
2	Scatter correction algorithm for digitally acquired radiographs: theory and results. <i>Medical Physics</i> , 1986 , 13, 319-28	4.4	20
1	Equivalent spectra as a measure of beam quality. <i>Medical Physics</i> , 1986 , 13, 861-8	4.4	14