James T Dobbins Iii

List of Publications by Year
in descending order

36	1,812	448610 19	563245 28
papers	citations	h-index	g-index

36	36	36	983
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Population of 224 realistic human subject-based computational breast phantoms. Medical Physics, 2015, 43, 23-32.	1.6	33
2	The effect of averaging adjacent planes for artifact reduction in matrix inversion tomosynthesis. Medical Physics, 2013, 40, 021907.	1.6	5
3	Generation of a suite of 3D computerâ€generated breast phantoms from a limited set of human subject data. Medical Physics, 2013, 40, 043703.	1.6	30
4	Frequency response and distortion properties of nonlinear image processing algorithms and the importance of imaging context. Medical Physics, 2013, 40, 091906.	1.6	7
5	An imageâ€based technique to assess the perceptual quality of clinical chest radiographs. Medical Physics, 2012, 39, 7019-7031.	1.6	20
6	Estimation of the twoâ€dimensional presampled modulation transfer function of digital radiography devices using oneâ€dimensional test objects. Medical Physics, 2012, 39, 6148-6160.	1.6	5
7	Automated lung segmentation in digital chest tomosynthesis. Medical Physics, 2012, 39, 732-741.	1.6	15
8	An analysis of the mechanical parameters used for finite element compression of a high-resolution 3D breast phantom. Medical Physics, 2011, 38, 5756-5770.	1.6	38
9	Tomosynthesis imaging: At a translational crossroads. Medical Physics, 2009, 36, 1956-1967.	1.6	140
10	Methodology for generating a 3D computerized breast phantom from empirical data. Medical Physics, 2009, 36, 3122-3131.	1.6	92
11	Effective DQE (eDQE) and speed of digital radiographic systems: An experimental methodology. Medical Physics, 2009, 36, 3806-3817.	1.6	59
12	Stochastic noise characteristics in matrix inversion tomosynthesis (MITS). Medical Physics, 2009, 36, 1521-1532.	1.6	5
13	Three-dimensional computer generated breast phantom based on empirical data. Proceedings of SPIE, 2008, , .	0.8	6
14	Digital tomosynthesis of the chest for lung nodule detection: Interim sensitivity results from an ongoing NIHâ€sponsored trial. Medical Physics, 2008, 35, 2554-2557.	1.6	101
15	Impulse response and Modulation Transfer Function analysis for Shift-And-Add and Back Projection image reconstruction algorithms in Digital Breast Tomosynthesis (DBT). International Journal of Functional Informatics and Personalised Medicine, 2008, 1, 189.	0.4	2
16	Importance of pointâ€byâ€point back projection correction for isocentric motion in digital breast tomosynthesis: Relevance to morphology of structures such as microcalcifications. Medical Physics, 2007, 34, 3885-3892.	1.6	41
17	Physics, 2006, 33, 1454.	1.6	172
18	Medical Physics, 2006, 33, 1466.	1.6	137

#	Article	IF	Citations
19	Optimization of the matrix inversion tomosynthesis (MITS) impulse response and modulation transfer function characteristics for chest imaging. Medical Physics, 2006, 33, 655-667.	1.6	62
20	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
21	Impulse response analysis for several digital tomosynthesis mammography reconstruction algorithms. , 2005, , .		30
22	Fundamental imaging characteristics of a slot-scan digital chest radiographic system. Medical Physics, 2004, 31, 2687-2698.	1.6	53
23	Quantitative evaluation of noise reduction strategies in dual-energy imaging. Medical Physics, 2003, 30, 190-198.	1.6	72
24	Standardization of NPS measurement: interim report of AAPM TG16. , 2003, , .		15
25	Practical strategies for the clinical implementation of matrix inversion tomosynthesis (MITS). , 2003, , .		24
26	Optimization of matrix inverse tomosynthesis. , 2001, 4320, 696.		20
27	DQE of direct and indirect digital radiography systems. , 2001, , .		41
28	Applications of matrix inversion tomosynthesis. , 2000, , .		32
29	Performance characteristics of a Kodak computed radiography system. Medical Physics, 1999, 26, 27-37.	1.6	52
30	Plate scatter correction for improved performance in dual-energy imaging. Medical Physics, 1996, 23, 871-876.	1.6	7
31	<title>Recent progress in noise reduction and scatter correction in dual-energy imaging</title>. , 1995, , .		18
32	DQE(f) of four generations of computed radiography acquisition devices. Medical Physics, 1995, 22, 1581-1593.	1.6	282
33	Effects of undersampling on the proper interpretation of modulation transfer function, noise power spectra, and noise equivalent quanta of digital imaging systems. Medical Physics, 1995, 22, 171-181.	1.6	139
34	<title>Dual-energy computed radiography: improvements in processing</title>. , 1994, 2167, 663.		8
35	Direct digitization of optical images using a photostimulable phosphor system. Medical Physics, 1992, 19, 1071-1080.	1.6	2
36	Quantitative radiographic imaging using a photostimulable phosphor system. Medical Physics, 1990, 17, 454-459.	1.6	25