Josh Star-Lack

List of Publications by Year
in descending order

45	1,399	361413	345221
papers	citations	20	36
		h-index	g-index

45	45	45	1123
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highâ€resolution modelâ€based material decomposition in dualâ€layer flatâ€panel CBCT. Medical Physics, 2021, 48, 6375-6387.	3.0	11
2	Singleâ€pass metal artifact reduction using a dualâ€layer flat panel detector. Medical Physics, 2021, 48, 6482-6496.	3.0	5
3	Characterization and potential applications of a dualâ€layer flatâ€panel detector. Medical Physics, 2020, 47, 3332-3343.	3.0	30
4	Comparative study of dual energy cone-beam CT using a dual-layer detector and kVp switching for material decomposition. , 2020, 11312, .		9
5	Projection-domain metal artifact correction using a dual layer detector. , 2020, 11312, .		3
6	Model-based material decomposition with system blur modeling. , 2020, 11312, .		7
7	Characterizing a novel scintillating glass for application to megavoltage coneâ€beam computed tomography. Medical Physics, 2019, 46, 1323-1330.	3.0	9
8	A fast, linear Boltzmann transport equationÂsolver for computed tomography dose calculation (Acuros <scp>CTD</scp>). Medical Physics, 2019, 46, 925-933.	3.0	11
9	Dual energy imaging with a dual-layer flat panel detector. , 2019, , .		10
10	Acuros <scp>CTS</scp>: A fast, linear Boltzmann transport equation solver for computed tomography scatter â€" Part <scp>II</scp>: System modeling, scatter correction, and optimization. Medical Physics, 2018, 45, 1914-1925.	3.0	58
11	Acuros <scp>CTS</scp>: A fast, linear Boltzmann transport equation solver for computed tomography scatter â€" Part I: Core algorithms and validation. Medical Physics, 2018, 45, 1899-1913.	3.0	50
12	Leveraging multi-layer imager detector design to improve low-dose performance for megavoltage cone-beam computed tomography. Physics in Medicine and Biology, 2018, 63, 035022.	3.0	8
13	Feasibility of closed-MLC tracking using high sensitivity and multi-layer electronic portal imagers. Physics in Medicine and Biology, 2018, 63, 235030.	3.0	4
14	Dual edge apparatus and algorithm for measurement of xâ€ray beam spot parameters. Medical Physics, 2018, 45, 5080-5093.	3.0	3
15	Multi-layer imager design for mega-voltage spectral imaging. Physics in Medicine and Biology, 2018, 63, 105002.	3.0	6
16	Physics considerations in MV-CBCT multi-layer imager design. Physics in Medicine and Biology, 2018, 63, 125016.	3.0	10
17	A modified McKinnonâ€Bates (<scp>MKB</scp>) algorithm for improved 4D coneâ€beam computed tomography (<scp>CBCT</scp>) of the lung. Medical Physics, 2018, 45, 3783-3799.	3.0	9
18	Super-resolution imaging in a multiple layer EPID. Biomedical Physics and Engineering Express, 2017, 3, 025004.	1.2	6

#	Article	IF	Citations
19	A novel multilayer <scp>MV</scp> imager computational model for component optimization. Medical Physics, 2017, 44, 4213-4222.	3.0	22
20	1D pixelated MV portal imager with structured privacy film: a feasibility study. Proceedings of SPIE, 2017, , .	0.8	0
21	Spectral imaging using clinical megavoltage beams and a novel multi-layer imager. Physics in Medicine and Biology, 2017, 62, 9127-9139.	3.0	10
22	A novel method for quantification of beam'sâ€eyeâ€view tumor tracking performance. Medical Physics, 2017, 44, 5650-5659.	3.0	10
23	Technical Note: Combination of multiple <scp>EPID</scp> imager layers improves image quality and tracking performance of low contrastâ€toâ€noise objects. Medical Physics, 2017, 44, 4847-4853.	3.0	8
24	A novel EPID design for enhanced contrast and detective quantum efficiency. Physics in Medicine and Biology, 2016, 61, 6297-6306.	3.0	38
25	Accuracy of patient-specific organ dose estimates obtained using an automated image segmentation algorithm. Journal of Medical Imaging, 2016, 3, 043502.	1.5	10
26	A piecewiseâ€focused high DQE detector for MV imaging. Medical Physics, 2015, 42, 5084-5099.	3.0	30
27	Metal artifact correction for xâ€ray computed tomography using kV and selective MV imaging. Medical Physics, 2014, 41, 121910.	3.0	31
28	Rapid scatter estimation for CBCT using the Boltzmann transport equation. , 2014, , .		5
29	Rapid Monte Carlo simulation of detector DQE(f). Medical Physics, 2014, 41, 031916.	3.0	43
30	A nonlinear lag correction algorithm for aâ€Si flatâ€panel xâ€ray detectors. Medical Physics, 2012, 39, 6035-6047.	3.0	17
31	Correction for patient tableâ€induced scattered radiation in coneâ€beam computed tomography (CBCT). Medical Physics, 2011, 38, 2058-2073.	3.0	22
32	Fast 4D cone-beam reconstruction using the McKinnon-Bates algorithm with truncation correction and nonlinear filtering. , 2011, , .		12
33	Investigation into the optimal linear time-invariant lag correction for radar artifact removal. Medical Physics, 2011, 38, 2398-2411.	3.0	20
34	Shading correction for onâ€board coneâ€beam CT in radiation therapy using planning MDCT images. Medical Physics, 2010, 37, 5395-5406.	3.0	122
35	Scatter correction method for xâ€ray CT using primary modulation: Phantom studies. Medical Physics, 2010, 37, 934-946.	3.0	65
36	Efficient scatter correction using asymmetric kernels. Proceedings of SPIE, 2009, , .	0.8	48

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37	Parameter investigation and first results from a digital flat panel detector with forward bias capability. Proceedings of SPIE, 2008, , .	0.8	4
38	Inverseâ€geometry volumetric CT system with multiple detector arrays for wide fieldâ€ofâ€view imaging. Medical Physics, 2007, 34, 2133-2142.	3.0	21
39	A prototype table-top inverse-geometry volumetric CT system. Medical Physics, 2006, 33, 1867-1878.	3.0	45
40	2D simulations of an inverse-geometry volumetric CT system with multiple detector arrays. , 2005, , .		3
41	Clinical application of BASING and spectral/spatial water and lipid suppression pulses for prostate cancer staging and localization by in vivo 3D1H magnetic resonance spectroscopic imaging. Magnetic Resonance in Medicine, 2000, 43, 17-22.	3.0	109
42	High spatial resolution1H-MRSI and segmented MRI of cortical gray matter and subcortical white matter in three regions of the human brain. Magnetic Resonance in Medicine, 1999, 41, 21-29.	3.0	82
43	In VivoLactate Editing with Simultaneous Detection of Choline, Creatine, NAA, and Lipid Singlets at 1.5 T Using PRESS Excitation with Applications to the Study of Brain and Head and Neck Tumors. Journal of Magnetic Resonance, 1998, 133, 243-254.	2.1	107
44	Improved solvent suppression and increased spatial excitation bandwidths for three-dimensional press CSI using phase-compensating spectral/spatial spin-echo pulses. Journal of Magnetic Resonance Imaging, 1997, 7, 745-757.	3.4	71
45	Improved water and lipid suppression for 3D PRESS CSI using rf band selective inversion with gradient dephasing (basing). Magnetic Resonance in Medicine, 1997, 38, 311-321.	3.0	195