

Josh Star-Lack

List of Publications by Year in descending order

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45
papers

1,399
citations

361045

20
h-index

344852

36
g-index

45
all docs

45
docs citations

45
times ranked

1123
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved water and lipid suppression for 3D PRESS CSI using rf band selective inversion with gradient dephasing (basing). <i>Magnetic Resonance in Medicine</i> , 1997, 38, 311-321.	1.9	195
2	Shading correction for on-board cone-beam CT in radiation therapy using planning MDCT images. <i>Medical Physics</i> , 2010, 37, 5395-5406.	1.6	122
3	Clinical application of BASING and spectral/spatial water and lipid suppression pulses for prostate cancer staging and localization by in vivo 3D ¹ H magnetic resonance spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 17-22.	1.9	109
4	In Vivo Lactate 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. <i>Journal of Magnetic Resonance</i> , 1998, 133, 243-254.	1.2	107
5	High spatial resolution ¹ H-MRSI and segmented MRI of cortical gray matter and subcortical white matter in three regions of the human brain. <i>Magnetic Resonance in Medicine</i> , 1999, 41, 21-29.	1.9	82
6	Improved solvent suppression and increased spatial excitation bandwidths for three-dimensional press CSI using phase-compensating spectral/spatial spin-echo pulses. <i>Journal of Magnetic Resonance Imaging</i> , 1997, 7, 745-757.	1.9	71
7	Scatter correction method for x-ray CT using primary modulation: Phantom studies. <i>Medical Physics</i> , 2010, 37, 934-946.	1.6	65
8	Acuros CTS: A fast, linear Boltzmann transport equation solver for computed tomography scatter Part II: System modeling, scatter correction, and optimization. <i>Medical Physics</i> , 2018, 45, 1914-1925.	1.6	58
9	Acuros CTS: A fast, linear Boltzmann transport equation solver for computed tomography scatter Part I: Core algorithms and validation. <i>Medical Physics</i> , 2018, 45, 1899-1913.	1.6	50
10	Efficient scatter correction using asymmetric kernels. <i>Proceedings of SPIE</i> , 2009, , .	0.8	48
11	A prototype table-top inverse-geometry volumetric CT system. <i>Medical Physics</i> , 2006, 33, 1867-1878.	1.6	45
12	Rapid Monte Carlo simulation of detector DQE(f). <i>Medical Physics</i> , 2014, 41, 031916.	1.6	43
13	A novel EPID design for enhanced contrast and detective quantum efficiency. <i>Physics in Medicine and Biology</i> , 2016, 61, 6297-6306.	1.6	38
14	Metal artifact correction for x-ray computed tomography using kV and selective MV imaging. <i>Medical Physics</i> , 2014, 41, 121910.	1.6	31
15	A piecewise-focused high DQE detector for MV imaging. <i>Medical Physics</i> , 2015, 42, 5084-5099.	1.6	30
16	Characterization and potential applications of a dual-layer flat-panel detector. <i>Medical Physics</i> , 2020, 47, 3332-3343.	1.6	30
17	Correction for patient table-induced scattered radiation in cone-beam computed tomography (CBCT). <i>Medical Physics</i> , 2011, 38, 2058-2073.	1.6	22
18	A novel multilayer MV imager computational model for component optimization. <i>Medical Physics</i> , 2017, 44, 4213-4222.	1.6	22

#	ARTICLE	IF	CITATIONS
19	Inverse geometry volumetric CT system with multiple detector arrays for wide field-of-view imaging. Medical Physics, 2007, 34, 2133-2142.	1.6	21
20	Investigation into the optimal linear time-invariant lag correction for radar artifact removal. Medical Physics, 2011, 38, 2398-2411.	1.6	20
21	A nonlinear lag correction algorithm for a Si flat-panel x-ray detectors. Medical Physics, 2012, 39, 6035-6047.	1.6	17
22	Fast 4D cone-beam reconstruction using the McKinnon-Bates algorithm with truncation correction and nonlinear filtering. , 2011, , .		12
23	A fast, linear Boltzmann transport equation solver for computed tomography dose calculation (Acuros <sc>CTD</sc>). Medical Physics, 2019, 46, 925-933.	1.6	11
24	High-resolution model-based material decomposition in dual-layer flat-panel CBCT. Medical Physics, 2021, 48, 6375-6387.	1.6	11
25	Spectral imaging using clinical megavoltage beams and a novel multi-layer imager. Physics in Medicine and Biology, 2017, 62, 9127-9139.	1.6	10
26	A novel method for quantification of beam's-eye-view tumor tracking performance. Medical Physics, 2017, 44, 5650-5659.	1.6	10
27	Physics considerations in MV-CBCT multi-layer imager design. Physics in Medicine and Biology, 2018, 63, 125016.	1.6	10
28	Accuracy of patient-specific organ dose estimates obtained using an automated image segmentation algorithm. Journal of Medical Imaging, 2016, 3, 043502.	0.8	10
29	Dual energy imaging with a dual-layer flat panel detector. , 2019, , .		10
30	A modified McKinnon-Bates (<sc>MKB</sc>) algorithm for improved 4D cone-beam computed tomography (<sc>CBCT</sc>) of the lung. Medical Physics, 2018, 45, 3783-3799.	1.6	9
31	Characterizing a novel scintillating glass for application to megavoltage cone-beam computed tomography. Medical Physics, 2019, 46, 1323-1330.	1.6	9
32	Comparative study of dual energy cone-beam CT using a dual-layer detector and kVp switching for material decomposition. , 2020, 11312, .		9
33	Technical Note: Combination of multiple <sc>EPID</sc> imager layers improves image quality and tracking performance of low contrast-to-noise objects. Medical Physics, 2017, 44, 4847-4853.	1.6	8
34	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.	1.6	8
35	Model-based material decomposition with system blur modeling. , 2020, 11312, .		7
36	Super-resolution imaging in a multiple layer EPID. Biomedical Physics and Engineering Express, 2017, 3, 025004.	0.6	6

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37	Multi-layer imager design for mega-voltage spectral imaging. <i>Physics in Medicine and Biology</i> , 2018, 63, 105002.	1.6	6
38	Rapid scatter estimation for CBCT using the Boltzmann transport equation. , 2014, , .		5
39	Single-pass metal artifact reduction using a dual-layer flat panel detector. <i>Medical Physics</i> , 2021, 48, 6482-6496.	1.6	5
40	Parameter investigation and first results from a digital flat panel detector with forward bias capability. <i>Proceedings of SPIE</i> , 2008, , .	0.8	4
41	Feasibility of closed-MLC tracking using high sensitivity and multi-layer electronic portal imagers. <i>Physics in Medicine and Biology</i> , 2018, 63, 235030.	1.6	4
42	2D simulations of an inverse-geometry volumetric CT system with multiple detector arrays. , 2005, , .		3
43	Dual edge apparatus and algorithm for measurement of x-ray beam spot parameters. <i>Medical Physics</i> , 2018, 45, 5080-5093.	1.6	3
44	Projection-domain metal artifact correction using a dual layer detector. , 2020, 11312, .		3
45	1D pixelated MV portal imager with structured privacy film: a feasibility study. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0