Jiang Hsieh

List of Publications by Year
in descending order

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70	6,089	136950 32	133252 59
papers	citations	h-index	g-index

70	70	70	3873
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A threeâ€dimensional statistical approach to improved image quality for multislice helical CT. Medical Physics, 2007, 34, 4526-4544.	3.0	806
2	Prospectively Gated Transverse Coronary CT Angiography versus Retrospectively Gated Helical Technique: Improved Image Quality and Reduced Radiation Dose. Radiology, 2008, 246, 742-753.	7.3	510
3	Low-Dose X-ray CT Reconstruction via Dictionary Learning. IEEE Transactions on Medical Imaging, 2012, 31, 1682-1697.	8.9	494
4	Abdominal CT: Comparison of Adaptive Statistical Iterative and Filtered Back Projection Reconstruction Techniques. Radiology, 2010, 257, 373-383.	7.3	398
5	Adaptive Statistical Iterative Reconstruction Technique for Radiation Dose Reduction in Chest CT: A Pilot Study. Radiology, 2011, 259, 565-573.	7.3	351
6	Reducing Abdominal CT Radiation Dose With Adaptive Statistical Iterative Reconstruction Technique. Investigative Radiology, 2010, 45, 202-210.	6.2	336
7	Adaptive streak artifact reduction in computed tomography resulting from excessive x-ray photon noise. Medical Physics, 1998, 25, 2139-2147.	3.0	295
8	Nonlinear sinogram smoothing for low-dose X-ray CT. IEEE Transactions on Nuclear Science, 2004, 51, 2505-2513.	2.0	248
9	Fast Model-Based X-Ray CT Reconstruction Using Spatially Nonhomogeneous ICD Optimization. IEEE Transactions on Image Processing, 2011, 20, 161-175.	9.8	242
10	Computed Tomography: Principles, Design, Artifacts, and Recent Advances. , 2015, , .		232
11	Step-and-shoot data acquisition and reconstruction for cardiac x-ray computed tomography. Medical Physics, 2006, 33, 4236-4248.	3.0	211
12	Radiation Dose Reduction With Chest Computed Tomography Using Adaptive Statistical Iterative Reconstruction Technique. Journal of Computer Assisted Tomography, 2010, 34, 40-45.	0.9	171
13	Diffuse Lung Disease: CT of the Chest with Adaptive Statistical Iterative Reconstruction Technique. Radiology, 2010, 256, 261-269.	7.3	152
14	Principles and applications of multienergy CT: Report of AAPM Task Group 291. Medical Physics, 2020, 47, e881-e912.	3.0	117
15	A three-dimensional-weighted cone beam filtered backprojection (CB-FBP) algorithm for image reconstruction in volumetric CTâ€"helical scanning. Physics in Medicine and Biology, 2006, 51, 855-874.	3.0	107
16	Recent Advances in CT Image Reconstruction. Current Radiology Reports, 2013, 1, 39-51.	1.4	104
17	Temporal resolution improvement using PICCS in MDCT cardiac imaging. Medical Physics, 2009, 36, 2130-2135.	3.0	76
18	A three-dimensional weighted cone beam filtered backprojection (CB-FBP) algorithm for image reconstruction in volumetric CT under a circular source trajectory. Physics in Medicine and Biology, 2005, 50, 3889-3905.	3.0	74

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19	Model-Based Iterative Reconstruction Versus Adaptive Statistical Iterative Reconstruction and Filtered Back Projection in Liver 64-MDCT: Focal Lesion Detection, Lesion Conspicuity, and Image Noise. American Journal of Roentgenology, 2013, 200, 1071-1076.	2.2	71
20	Quantification of head and body CTDI_{VOL}of dual-energy x-ray CTwith fast-kVp switching. Medical Physics, 2011, 38, 2595-2601.	3.0	69
21	Prospectively ECG-Triggered Rapid kV-Switching Dual-Energy CT for Quantitative Imaging of Myocardial Perfusion. JACC: Cardiovascular Imaging, 2012, 5, 829-836.	5.3	66
22	Temporal resolution improvement in cardiac CT using PICCS (TRIâ€PICCS): Performance studies. Medical Physics, 2010, 37, 4377-4388.	3.0	63
23	Quantitative myocardial perfusion imaging using rapid kVp switch dual-energy CT: Preliminary experience. Journal of Cardiovascular Computed Tomography, 2011, 5, 430-442.	1.3	62
24	Non-invasive assessment of functionally relevant coronary artery stenoses with quantitative CT perfusion: preliminary clinical experiences. European Radiology, 2012, 22, 39-50.	4.5	54
25	A general approach to the reconstruction of x-ray helical computed tomography. Medical Physics, 1996, 23, 221-229.	3.0	52
26	Dual-energy CT and its potential use for quantitative myocardial CT perfusion. Journal of Cardiovascular Computed Tomography, 2012, 6, 308-317.	1.3	51
27	Beam hardening correction in CT myocardial perfusion measurement. Physics in Medicine and Biology, 2009, 54, 3031-3050.	3.0	49
28	Nonstationary noise characteristics of the helical scan and its impact on image quality and artifacts. Medical Physics, 1997, 24, 1375-1384.	3.0	48
29	Quantitative myocardial perfusion measurement using CT Perfusion: a validation study in a porcine model of reperfused acute myocardial infarction. International Journal of Cardiovascular Imaging, 2012, 28, 1237-1248.	1.5	43
30	Blooming Artifact Reduction in Coronary Artery Calcification by A New De-blooming Algorithm: Initial Study. Scientific Reports, 2018, 8, 6945.	3.3	39
31	Computed tomography recent history and future perspectives. Journal of Medical Imaging, 2021, 8, 052109.	1.5	39
32	Investigation of a solid-state detector for advanced computed tomography. IEEE Transactions on Medical Imaging, 2000, 19, 930-940.	8.9	38
33	Analytical models for multi-slice helical CT performance parameters. Medical Physics, 2003, 30, 169-178.	3.0	38
34	Assessing image quality and dose reduction of a new x-ray computed tomography iterative reconstruction algorithm using model observers. Medical Physics, 2014, 41, 071910.	3.0	32
35	A filtered backprojection algorithm for cone beam reconstructionusing rotational filtering under helical source trajectory. Medical Physics, 2004, 31, 2949-2960.	3.0	26
36	An intuitive discussion on the ideal ramp filter in computed tomography (I). Computers and Mathematics With Applications, 2005, 49, 731-740.	2.7	26

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37	Hi-Res scan mode in clinical MDCT systems: Experimental assessment of spatial resolution performance. Medical Physics, 2016, 43, 2399-2409.	3.0	25
38	Tomographic reconstruction for tilted helical multislice CT. IEEE Transactions on Medical Imaging, 2000, 19, 864-872.	8.9	24
39	Fractional scan algorithms for low-dose perfusion CT. Medical Physics, 2004, 31, 1254-1257.	3.0	23
40	Investigation of the slice sensitivity profile for step-and-shoot mode multi-slice computed tomography. Medical Physics, 2001, 28, 491-500.	3.0	21
41	Analysis of the temporal response of computed tomography fluoroscopy. Medical Physics, 1997, 24, 665-675.	3.0	19
42	Technical Note: Evaluation of a 160-mm/256-row CT scanner for whole-heart quantitative myocardial perfusion imaging. Medical Physics, 2016, 43, 4821-4832.	3.0	18
43	Minimization of over-ranging in helical volumetric CT via hybrid cone beam image reconstruction-Benefits in dose efficiency. Medical Physics, 2008, 35, 3232-3238.	3.0	14
44	Handling data redundancy in helical cone beam reconstruction with a coneâ€angleâ€based window function and its asymptotic approximation. Medical Physics, 2007, 34, 1989-1998.	3.0	13
45	Tilted cone-beam reconstruction with row-wise fan-to-parallel rebinning. Physics in Medicine and Biology, 2006, 51, 5259-5276.	3.0	12
46	Relation between the filtered backprojection algorithm and the backprojection algorithm in CT. IEEE Signal Processing Letters, 2005, 12, 633-636.	3.6	10
47	Functional CT assessment of extravascular contrast distribution volume and myocardial perfusion in acute myocardial infarction. International Journal of Cardiology, 2018, 266, 15-23.	1.7	10
48	Conjugate cone-beam reconstruction algorithm. Optical Engineering, 2007, 46, 067001.	1.0	9
49	Statistical model based iterative reconstruction in clinical CT systems. Part III. Taskâ€based kV/mAs optimization for radiation dose reduction. Medical Physics, 2015, 42, 5209-5221.	3.0	9
50	Ultra-low dose quantitative CT myocardial perfusion imaging with sparse-view dynamic acquisition and image reconstruction: A feasibility study. International Journal of Cardiology, 2018, 254, 272-281.	1.7	9
51	<title>Generalized adaptive median filters and their application in computed tomography</title>. , 1994, , .		8
52	General Formula for Fan-Beam Computed Tomography. Physical Review Letters, 2005, 95, 258102.	7.8	8
53	<title>Reconstruction technique for focal spot wobbling</title>. , 1992, , .		7
54	Ultra low dose CT for attenuation correction in PET/CT. , 2008, , .		6

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55	Cubic-Spline Interpolation for Sparse-View CT Image Reconstruction With Filtered Backprojection in Dynamic Myocardial Perfusion Imaging. Tomography, 2019, 5, 300-307.	1.8	6
56	Partial volume artifact reduction in computed tomography. , 0, , .		5
57	Investigation of an image artefact induced by projection noise inhomogeneity in multi-slice helical computed tomography. Physics in Medicine and Biology, 2003, 48, 341-356.	3.0	5
58	A helical cone-beam filtered backprojection (CB-FBP) reconstruction algorithm using 3D view weighting. , 2004, , .		5
59	Extending Three-Dimensional Weighted Cone Beam Filtered Backprojection (CB-FBP) Algorithm for Image Reconstruction in Volumetric CT at Low Helical Pitches. International Journal of Biomedical Imaging, 2006, 2006, 1-8.	3.9	5
60	Can conclusions drawn from phantomâ€based image noise assessments be generalized to in vivo studies for the nonlinear modelâ€based iterative reconstruction method?. Medical Physics, 2016, 43, 687-695.	3.0	5
61	A platformâ€independent method to reduce CT truncation artifacts using discriminative dictionary representations. Medical Physics, 2017, 44, 121-131.	3.0	5
62	<title>Adaptive phase-coded reconstruction for cardiac CT</title>. , 2000, , .		4
63	Impact of bowtie filter and object position on the two-dimensional noise power spectrum of a clinical MDCT system. Medical Physics, 2016, 43, 4495-4506.	3.0	4
64	Wavelet filtering algorithm for fan-beam CT. Electronics Letters, 1998, 34, 2395.	1.0	3
65	Ultra-Low-Dose Sparse-View Quantitative CT Liver Perfusion Imaging. Tomography, 2017, 3, 175-179.	1.8	3
66	<title>Adaptive trimmed mean filter for computed tomographic imaging</title>. , 1994, 2299, 316.		2
67	GW24-e2918â€...Quantitative myocardial CT perfusion with rapid kV switching dual energy CT: a microspheres validation study. Heart, 2013, 99, A269.3-A270.	2.9	1
68	A novel simulationâ€driven reconstruction approach for xâ€ray computed tomography. Medical Physics, 2022, 49, 2245-2258.	3.0	1
69	GW24-e2927â€...Low dose quantitative myocardial CT perfusion with adaptive statistical iterative reconstruction: a microspheres validation study. Heart, 2013, 99, A270.1-A270.	2.9	0
70	Dose, noise and view weights in CT helical scans. Proceedings of SPIE, 2014, , .	0.8	0