Ming Jiang

List of Publications by Year
in descending order

92 papers	2,242 citations	361413 20 h-index	243625 44 g-index
93 all docs	93 docs citations	93 times ranked	1461 citing authors

#	ARTICLE	IF	CITATIONS
1	Practical reconstruction method for bioluminescence tomography. Optics Express, 2005, 13, 6756.	3.4	299
2	Uniqueness theorems in bioluminescence tomography. Medical Physics, 2004, 31, 2289-2299.	3.0	253
3	Convergence studies on iterative algorithms for image reconstruction. IEEE Transactions on Medical Imaging, 2003, 22, 569-579.	8.9	198
4	Convergence of the simultaneous algebraic reconstruction technique (SART). IEEE Transactions on Image Processing, 2003, 12, 957-961.	9.8	187
5	Quality Assessment of In-the-Wild Videos. , 2019, , .		162
6	High-order total variation minimization for interior tomography. Inverse Problems, 2010, 26, 035013.	2.0	115
7	Which Has Better Visual Quality: The Clear Blue Sky or a Blurry Animal?. IEEE Transactions on Multimedia, 2019, 21, 1221-1234.	7.2	77
8	Unified Quality Assessment of in-the-Wild Videos with Mixed Datasets Training. International Journal of Computer Vision, 2021, 129, 1238-1257.	15.6	69
9	Comparison of MISR aerosol optical thickness with AERONET measurements in Beijing metropolitan area. Remote Sensing of Environment, 2007, 107, 45-53.	11.0	68
10	Blind deblurring of spiral CT images. IEEE Transactions on Medical Imaging, 2003, 22, 837-845.	8.9	61
11	Supplemental analysis on compressed sensing based interior tomography. Physics in Medicine and Biology, 2009, 54, N425-N432.	3.0	59
12	Image reconstruction for bioluminescence tomography from partial measurement. Optics Express, 2007, 15, 11095.	3.4	49
13	A Note on the Behavior of the Randomized Kaczmarz Algorithm of Strohmer and Vershynin. Journal of Fourier Analysis and Applications, 2009, 15, 431-436.	1.0	35
14	Necessary and Sufficient Convergence Conditions for Algebraic Image Reconstruction Algorithms. IEEE Transactions on Image Processing, 2009, 18, 435-440.	9.8	28
15	Recent Development in Bioluminescence Tomography. Current Medical Imaging, 2006, 2, 453-457.	0.8	27
16	Regularizing properties of the Mumfordâ€"Shah functional for imaging applications. Inverse Problems, 2014, 30, 035007.	2.0	26
17	Spatial Variation of Resolution and Noise in Multiâ€"Detector Row Spiral CT. Academic Radiology, 2003, 10, 607-613.	2.5	24
18	High-order total variation minimization for interior SPECT. Inverse Problems, 2012, 28, 015001.	2.0	23

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19	Light field reconstruction from projection modeling of focal stack. Optics Express, 2017, 25, 11377.	3.4	23
20	Bounded perturbation resilience of projected scaled gradient methods. Computational Optimization and Applications, 2016, 63, 365-392.	1.6	22
21	Exploiting High-Level Semantics for No-Reference Image Quality Assessment of Realistic Blur Images. , 2017, , .		22
22	Single Image Blind Deblurring Using Multi-Scale Latent Structure Prior. IEEE Transactions on Circuits and Systems for Video Technology, 2019, , 1-1.	8.3	22
23	Relaxation strategy for the Landweber method. Signal Processing, 2016, 125, 87-96.	3.7	21
24	X-Ray Phase-Contrast Imaging with Three 2D Gratings. International Journal of Biomedical Imaging, 2008, 2008, 1-8.	3.9	20
25	Interior SPECTâ€"exact and stable ROI reconstruction from uniformly attenuated local projections. Communications in Numerical Methods in Engineering, 2009, 25, 693-710.	1.3	19
26	Image reconstruction for bioluminescence tomography. , 2004, , .		17
27	FPGA-Based Real-Time Super-Resolution System for Ultra High Definition Videos. , 2018, , .		16
28	Blind deblurring of spiral CT images-comparative studies on edge-to-noise ratios. Medical Physics, 2002, 29, 821-829.	3.0	15
29	3D Algebraic Iterative Reconstruction for Cone-Beam X-Ray Differential Phase-Contrast Computed Tomography. PLoS ONE, 2015, 10, e0117502.	2.5	15
30	Landweber iterative methods for angle-limited image reconstruction. Acta Mathematicae Applicatae Sinica, 2009, 25, 327-334.	0.7	13
31	Superiorization: theory and applications. Inverse Problems, 2017, 33, 040301.	2.0	13
32	A Surface Reconstruction Method for Highly Noisy Point Clouds. Lecture Notes in Computer Science, 2005, , 283-294.	1.3	12
33	A Hierarchical Bayesian Approach for Aerosol Retrieval Using MISR Data. Journal of the American Statistical Association, 2013, 108, 483-493.	3.1	11
34	cuMBIR. , 2018, , .		11
35	Quality Assessment for Tone-Mapped HDR Images Using Multi-Scale and Multi-Layer Information. , 2018, , .		11
36	An iterative algorithm for angle-limited three-dimensional image reconstruction. Acta Mathematicae Applicatae Sinica, 2008, 24, 157-166.	0.7	10

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37	Theoretical study on high order interior tomography. Journal of X-Ray Science and Technology, 2012, 20, 423-436.	1.0	10
38	Winograd-Based Real-Time Super-Resolution System on FPGA. , 2019, , .		10
39	A Heuristic Superiorization-Like Approach to Bioluminescence Tomography. IFMBE Proceedings, 2013, , 1026-1029.	0.3	10
40	Convergence of the simultaneous algebraic reconstruction technique (SART). , 2001, , .		8
41	Axiomatic quantification of multidimensional image resolution. IEEE Signal Processing Letters, 2002, 9, 120-122.	3.6	8
42	Axiomatic characterization of nonlinear homomorphic means. Journal of Mathematical Analysis and Applications, 2005, 303, 350-363.	1.0	8
43	String-averaging expectation-maximization for maximum likelihood estimation in emission tomography. Inverse Problems, 2014, 30, 055003.	2.0	8
44	Convergence results of Landweber iterations for linear systems. Acta Mathematicae Applicatae Sinica, 2014, 30, 111-118.	0.7	7
45	Joint super-resolution image reconstruction and parameter identification in imaging operator: analysis of bilinear operator equations, numerical solution, and application to magnetic particle imaging. Inverse Problems, 2020, 36, 124006.	2.0	7
46	A generalization of Morse lemma and its applications. Nonlinear Analysis: Theory, Methods & Applications, 1999, 36, 943-960.	1.1	6
47	Computational optical biopsy. BioMedical Engineering OnLine, 2005, 4, 36.	2.7	6
48	Landweber scheme for compact operator equation in Hilbert space and its applications. Communications in Numerical Methods in Engineering, 2009, 25, 771-786.	1.3	6
49	Image reconstruction by Mumford–Shah regularization for low-dose CT with multi-GPU acceleration. Physics in Medicine and Biology, 2019, 64, 155017.	3.0	6
50	ITERATIVE ALGEBRAIC ALGORITHMS FOR IMAGE RECONSTRUCTION. , 2005, , 351-382.		6
51	Partial coherence theory for x-ray phase contrast imaging technique with gratings. Optics Communications, 2012, 285, 4763-4774.	2.1	5
52	Visibility studies of grating-based neutron phase contrast and dark-field imaging by using partial coherence theory. Journal of the Korean Physical Society, 2013, 63, 2093-2097.	0.7	5
53	A fast algorithm for high order total variation minimization based interior tomography. Journal of X-Ray Science and Technology, 2015, 23, 349-364.	1.0	5
54	How slow is Shannon×³s reconstruction for bandlimited signals?. Signal Processing, 2015, 111, 26-30.	3.7	5

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55	Cone-beam reconstruction for the two-circles-plus-one-line trajectory. Physics in Medicine and Biology, 2012, 57, 2689-2707.	3.0	4
56	Data consistency condition for truncated projections in fan-beam geometry. Journal of X-Ray Science and Technology, 2015, 23, 627-638.	1.0	4
57	FPGA acceleration by asynchronous parallelization for simultaneous image reconstruction and segmentation based on the Mumford-Shah regularization. Proceedings of SPIE, 2015, , .	0.8	4
58	FPGA Acceleration for 3-D Low-Dose Tomographic Reconstruction. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2021, 40, 666-679.	2.7	4
59	Simultaneous reconstruction and segmentation with the Mumford-Shah functional for electron tomography. Inverse Problems and Imaging, 2018, 12, 1343-1364.	1.1	4
60	Minimum detection window and inter-helix PI-line with triple-source helical cone-beam scanning. , 2004, , .		3
61	Variable Weighted Ordered Subset Image Reconstruction Algorithm. International Journal of Biomedical Imaging, 2006, 2006, 1-7.	3.9	3
62	An EM-like optimization scheme for diffuse optical tomography. Proceedings of SPIE, 2008, , .	0.8	3
63	In Situ Real-Time Chemiluminescence Imaging of Reactive Oxygen Species Formation from Cardiomyocytes. International Journal of Biomedical Imaging, 2008, 2008, 1-9.	3.9	3
64	Radiative transfer equation for media with spatially varying refractive index. Physical Review A, 2014, 90, .	2.5	3
65	FPGA Acceleration for Simultaneous Medical Image Reconstruction and Segmentation. , 2014, , .		3
66	Light Field Reconstruction from Focal Stack Based on Landweber Iterative Scheme. , 2017, , .		3
67	A Reconstruction Algorithm for Triple-Source Helical Cone-Beam CT. , 2005, 2005, 1875-8.		2
68	X-ray phase-contrast imaging with 2D grating interferometry. , 2008, , .		2
69	Two-dimensional phase unwrapping using semidefinite relaxation. , 2009, , .		2
70	FPGA-accelerated Iterative Reconstruction for Transmission Electron Tomography. , 2021, , .		2
71	Convergence of iterative algorithms for image reconstruction. , 0, , .		1
72	Blind Deconvolution for Symmetric Point-spread Functions. , 2005, 2005, 3459-62.		1

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73	A general axiomatic system for image resolution quantification. Journal of Mathematical Analysis and Applications, 2006, 315, 462-473.	1.0	1
74	Parameter optimization for a grating-based phase contrast x-ray system. Proceedings of SPIE, 2008, , .	0.8	1
75	High order total variation method for interior tomography. Proceedings of SPIE, 2012, , .	0.8	1
76	A fast super-resolution method based on sparsity properties. , 2015, , .		1
77	Simultaneous reconstruction and segmentation with the Mumford-Shah functional for electron tomography. , 2016, 2016, 5909-5912.		1
78	Joint Bi-Modal Image Reconstruction Of Dot And Xct With An Extended Mumford-Shah Functional. , 2019, , .		1
79	FPGA Acceleration of Ray-Based Iterative Algorithm for 3D Low-Dose CT Reconstruction. , 2020, , .		1
80	Review of Image Similarity Measures for Joint Image Reconstruction from Multiple Measurements. , 2021, , 267-286.		1
81	BLOCK-ITERATIVE ALGORITHMS FOR IMAGE RECONSTRUCTION. , 2002, , .		1
82	Mumford-Shah-TV functional with application in X-ray interior tomography. Inverse Problems and Imaging, 2018, 12, 331-348.	1.1	1
83	High cost-efficient and computational gigapixel video camera based on commercial lenses and CMOS chips. Applied Optics, 2018, 57, 8519.	1.8	1
84	Partial regularity of weakly stationary harmonic maps into a manifold with symmetries. Nonlinear Analysis: Theory, Methods & Applications, 1995, 24, 433-440.	1.1	0
85	Axiomatic quantification of image resolution. , 2001, , .		0
86	Blind deblurring of spiral CT images. , 2001, , .		0
87	Cone-beam reconstruction for Micro-CT. , 0, , .		0
88	Constrained block-iterative Landweber scheme for image reconstruction. , 2004, , .		0
89	Development of bioluminescence tomography. , 2006, 6318, 104.		0
90	Mathematics in Biomedical Imaging. International Journal of Biomedical Imaging, 2007, 2007, 1-2.	3.9	0

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91	Diffusive reflectance for the free-space light propagation theory. Applied Physics Letters, 2010, 96, 013702.	3.3	0
92	Image Quality Assessment Based on Contour and Region. Journal of Computational Mathematics, 2016, 34, 705-722.	0.4	0