Yifei Lou

List of Publications by Year in descending order

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75	2,641	236925 25	189892 50
papers	citations	h-index	g-index

77	77	77	1702
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Minimizing L ₁ over L ₂ norms on the gradient. Inverse Problems, 2022, 38, 065011.	2.0	7
2	Blind Hyperspectral Unmixing Based on Graph Total Variation Regularization. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3338-3351.	6.3	18
3	Probabilistic Structure Learning for EEG/MEG Source Imaging With Hierarchical Graph Priors. IEEE Transactions on Medical Imaging, 2021, 40, 321-334.	8.9	17
4	Automatic extraction of cell nuclei using dilated convolutional network. Inverse Problems and Imaging, 2021, 15, 27-40.	1.1	0
5	Limited-Angle CT Reconstruction via the L_1/L_2 Minimization. SIAM Journal on Imaging Sciences, 2021, 14, 749-777.	2.2	29
6	A Weighted Difference of Anisotropic and Isotropic Total Variation for Relaxed Mumford--Shah Color and Multiphase Image Segmentation. SIAM Journal on Imaging Sciences, 2021, 14, 1078-1113.	2.2	7
7	A Novel Regularization Based on the Error Function for Sparse Recovery. Journal of Scientific Computing, 2021, 87, 1.	2.3	13
8	An improved seismic data completion algorithm using low-rank tensor optimization: Cost reduction and optimal data orientation. Geophysics, 2021, 86, V219-V232.	2.6	8
9	Iteratively Reweighted Group Lasso Based on Log-Composite Regularization. SIAM Journal of Scientific Computing, 2021, 43, S655-S678.	2.8	1
10	IPI special issue on 'mathematical/statistical approaches in data science' in the Inverse Problem and Imaging. Inverse Problems and Imaging, 2021, 15, I-I.	1.1	0
11	Two-Step Blind Deconvolution of UPC-A Barcode Images. Association for Women in Mathematics Series, 2021, , 49-71.	0.4	0
12	Improving seismic data completion via low-rank tensor optimization. , 2020, , .		2
13	Non-blind and Blind Deconvolution Under Poisson Noise Using Fractional-Order Total Variation. Journal of Mathematical Imaging and Vision, 2020, 62, 1238-1255.	1.3	30
14	One-dimensional phase retrieval: regularization, box relaxation and uniqueness. Inverse Problems, 2020, 36, 095004.	2.0	0
15	An image sharpening operator combined with framelet for image deblurring. Inverse Problems, 2020, 36, 045015.	2.0	14
16	Accelerated Schemes for the L_1/L_2 Minimization. IEEE Transactions on Signal Processing, 2020, 68, 2660-2669.	5.3	36
17	Poisson image denoising based on fractional-order total variation. Inverse Problems and Imaging, 2020, 14, 77-96.	1.1	28
18	A Neural Network Approach for Image Reconstruction from a Single X-Ray Projection. Communications in Computer and Information Science, 2020, , 208-219.	0.5	0

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19	Comparison of three undersampling approaches in computed tomography reconstruction. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1229-1241.	2.0	3
20	L₁₋₂ Regularized Logistic Regression. , 2019, , .		8
21	A Scale-Invariant Approach for Sparse Signal Recovery. SIAM Journal of Scientific Computing, 2019, 41, A3649-A3672.	2.8	48
22	Fast Blind Hyperspectral Unmixing Based On Graph Laplacian. , 2019, , .		6
23	Improving seismic data completion and efficiency using tensors. , 2019, , .		3
24	Material elemental decomposition in dual and multiâ€energy CT via a sparsityâ€dictionary approach for proton stopping power ratio calculation. Medical Physics, 2018, 45, 1491-1503.	3.0	15
25	Variational Phase Retrieval with Globally Convergent Preconditioned Proximal Algorithm. SIAM Journal on Imaging Sciences, 2018, 11, 56-93.	2.2	19
26	Total Variation--Based Phase Retrieval for Poisson Noise Removal. SIAM Journal on Imaging Sciences, 2018, 11, 24-55.	2.2	50
27	Fast L1â€“L2 Minimization via a Proximal Operator. Journal of Scientific Computing, 2018, 74, 767-785.	2.3	103
28	Empirical Studies on Phase Retrieval. , 2018, , .		1
29	Multienergy elementâ€resolved cone beam <scp>CT</scp> (<scp>MEER</scp>â€<scp>CBCT</scp>) realized on a conventional <scp>CBCT</scp> platform. Medical Physics, 2018, 45, 4461-4470.	3.0	10
30	Multienergy Cone-Beam Computed Tomography Reconstruction with a Spatial Spectral Nonlocal Means Algorithm. SIAM Journal on Imaging Sciences, 2018, 11, 1205-1229.	2.2	16
31	Partially coherent ptychography by gradient decomposition of the probe. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, 157-169.	0.1	17
32	Estimating Latent Brain Sources with Low-Rank Representation and Graph Regularization. Lecture Notes in Computer Science, 2018, , 304-316.	1.3	4
33	Truncated l_{1-2} Models for Sparse Recovery and Rank Minimization. SIAM Journal on Imaging Sciences, 2017, 10, 1346-1380.	2.2	65
34	Image deblurring with an inaccurate blur kernel using a group-based low-rank image prior. Information Sciences, 2017, 408, 213-233.	6.9	21
35	Graph Regularized EEG Source Imaging with In-Class Consistency and Out-Class Discrimination. IEEE Transactions on Big Data, 2017, 3, 378-391.	6.1	20
36	Group-based truncated l<inf>1â€“2</inf> model for image inpainting. , 2017, , .		0

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37	Curve matching approaches to waveform classification: a case study using ICESat data. GIScience and Remote Sensing, 2016, 53, 739-758.	5.9	1
38	Phase Retrieval from Incomplete Magnitude Information via Total Variation Regularization. SIAM Journal of Scientific Computing, 2016, 38, A3672-A3695.	2.8	42
39	A weighted difference of anisotropic and isotropic total variation for relaxed Mumford-Shah image segmentation. , 2016, , .		3
40	Point Source Super-resolution Via Non-convex $$L_1$$ Based Methods. Journal of Scientific Computing, 2016, 68, 1082-1100.	2.3	36
41	Variational Multiplicative Noise Removal by DC Programming. Journal of Scientific Computing, 2016, 68, 1200-1216.	2.3	22
42	Computing Sparse Representation in a Highly Coherent Dictionary Based on Difference of $$L_1$$ L 1 and $$L_2$$ L 2. Journal of Scientific Computing, 2015, 64, 178-196.	2.3	117
43	Minimization of ell_{1-2} for Compressed Sensing. SIAM Journal of Scientific Computing, 2015, 37, A536-A563.	2.8	304
44	Computational Aspects of Constrained L 1-L 2 Minimization for Compressive Sensing. Advances in Intelligent Systems and Computing, 2015, , 169-180.	0.6	43
45	A Weighted Difference of Anisotropic and Isotropic Total Variation Model for Image Processing. SIAM Journal on Imaging Sciences, 2015, 8, 1798-1823.	2.2	173
46	Partially Blind Deblurring of Barcode from Out-of-Focus Blur. SIAM Journal on Imaging Sciences, 2014, 7, 740-760.	2.2	11
47	A Linear Systems Approach to Imaging Through Turbulence. Journal of Mathematical Imaging and Vision, 2014, 48, 185-201.	1.3	29
48	3D dictionary learning based iterative cone beam CT reconstruction. International Journal of Cancer Therapy and Oncology, 2014, 2, 020240.	0.2	6
49	Multimodal Deformable Registration of Traumatic Brain Injury MR Volumes via the Bhattacharyya Distance. IEEE Transactions on Biomedical Engineering, 2013, 60, 2511-2520.	4.2	5
50	Spiral Scanning and Encased Cantilevers for High Spatial and Temporal Resolution in Atomic Force Microscopy. Biophysical Journal, 2013, 104, 512a.	0.5	0
51	Joint CT/CBCT deformable registration and CBCT enhancement for cancer radiotherapy. Medical Image Analysis, 2013, 17, 387-400.	11.6	32
52	A Method for Finding Structured Sparse Solutions to Nonnegative Least Squares Problems with Applications. SIAM Journal on Imaging Sciences, 2013, 6, 2010-2046.	2.2	109
53	Video stabilization of atmospheric turbulence distortion. Inverse Problems and Imaging, 2013, 7, 839-861.	1.1	47
54	Fourâ€dimensional cone beam CT reconstruction and enhancement using a temporal nonlocal means method. Medical Physics, 2012, 39, 5592-5602.	3.0	62

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55	Beam orientation optimization for intensity modulated radiation therapy using adaptivel2,1-minimization. Physics in Medicine and Biology, 2011, 56, 6205-6222.	3.0	37
56	GPU-based fast low-dose cone beam CT reconstruction via total variation. Journal of X-Ray Science and Technology, 2011, 19, 139-154.	1.0	46
57	GPU-based iterative cone-beam CT reconstruction using tight frame regularization. Physics in Medicine and Biology, 2011, 56, 3787-3807.	3.0	162
58	Reconstruction and Enhancement of Four-dimensional Cone Beam CT using a Temporal Non-local Means Method. International Journal of Radiation Oncology Biology Physics, 2011, 81, S58-S59.	0.8	2
59	Lowâ€dose 4DCT reconstruction via temporal nonlocal means. Medical Physics, 2011, 38, 1359-1365.	3.0	62
60	Direct Sparse Deblurring. Journal of Mathematical Imaging and Vision, 2011, 39, 1-12.	1.3	54
61	Mitigation of motion artifacts in CBCT of lung tumors based on tracked tumor motion during CBCT acquisition. Physics in Medicine and Biology, 2011, 56, 5485-5502.	3.0	16
62	WE-A-301-11: Low Dose Multi-Slice Helical CT Reconstruction Using Tight Frame Regularization. Medical Physics, 2011, 38, 3798-3798.	3.0	0
63	SU-E-T-868: Beam Orientation Optimization for Intensity Modulated Radiation Therapy Using Adaptive L1 Minimization. Medical Physics, 2011, 38, 3691-3691.	3.0	0
64	WE-A-301-02: Four-Dimensional Cone Beam CT Reconstruction and Enhancement with a Temporal Non-Local Means Method. Medical Physics, 2011, 38, 3796-3796.	3.0	0
65	A GPU-based Implementation of Multimodal Deformable Image Registration Based on Mutual Information or Bhattacharyya Distance. The Insight Journal, 2011, , .	0.2	0
66	Image Recovery via Nonlocal Operators. Journal of Scientific Computing, 2010, 42, 185-197.	2.3	262
67	4D Computed Tomography Reconstruction from Few-Projection Data via Temporal Non-local Regularization. Lecture Notes in Computer Science, 2010, 13, 143-150.	1.3	35
68	GPU-based fast cone beam CT reconstruction from undersampled and noisy projection data via total variation. Medical Physics, 2010, 37, 1757-1760.	3.0	208
69	WE-E-201B-01: GPU-Based Fast Cone Beam CT Reconstruction from Undersampled and Noisy Projection Data Via Total Variation. Medical Physics, 2010, 37, 3441-3441.	3.0	2
70	THâ€Câ€BRAâ€03: GPUâ€Based Cone Beam CT Reconstruction. Medical Physics, 2010, 37, 3451-3452.	3.0	0
71	A Dynamic CT Image Reconstruction Method by Inducing Prior Information from PCA Analysis. , 2009, , .		0
72	A note on multi-image denoising. , 2009, , .		56

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73	Nonlocal Similarity Image Filtering. Lecture Notes in Computer Science, 2009, , 62-71.	1.3	21
74	Autocalibration and Uncalibrated Reconstruction of Shape from Defocus. , 2007, , .		3
75	Tensor-based reconstruction applied to regularized time-lapse data. Geophysical Journal International, 0, , .	2.4	1