Yifei Lou

List of Publications by Year
in descending order

75 papers	2,641 citations	236925 25 h-index	189892 50 g-index
77 all docs	77 docs citations	77 times ranked	1702 citing authors

#	Article	IF	Citations
1	Minimization of ℓ_{1-2} for Compressed Sensing. SIAM Journal of Scientific Computing, 2015, 37, A536-A563.	2.8	304
2	Image Recovery via Nonlocal Operators. Journal of Scientific Computing, 2010, 42, 185-197.	2.3	262
3	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
4	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
5	GPU-based iterative cone-beam CT reconstruction using tight frame regularization. Physics in Medicine and Biology, 2011, 56, 3787-3807.	3.0	162
6	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
7	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
8	Fast L1â€"L2 Minimization via a Proximal Operator. Journal of Scientific Computing, 2018, 74, 767-785.	2.3	103
9	Truncated l_{1-2} Models for Sparse Recovery and Rank Minimization. SIAM Journal on Imaging Sciences, 2017, 10, 1346-1380.	2.2	65
10	Lowâ€dose 4DCT reconstruction via temporal nonlocal means. Medical Physics, 2011, 38, 1359-1365.	3.0	62
11	Fourâ€dimensional cone beam CT reconstruction and enhancement using a temporal nonlocal means method. Medical Physics, 2012, 39, 5592-5602.	3.0	62
12	A note on multi-image denoising. , 2009, , .		56
13	Direct Sparse Deblurring. Journal of Mathematical Imaging and Vision, 2011, 39, 1-12.	1.3	54
14	Total Variation--Based Phase Retrieval for Poisson Noise Removal. SIAM Journal on Imaging Sciences, 2018, 11, 24-55.	2.2	50
15	A Scale-Invariant Approach for Sparse Signal Recovery. SIAM Journal of Scientific Computing, 2019, 41, A3649-A3672.	2.8	48
16	Video stabilization of atmospheric turbulence distortion. Inverse Problems and Imaging, 2013, 7, 839-861.	1.1	47
17	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
18	Computational Aspects of Constrained L 1-L 2 Minimization for Compressive Sensing. Advances in Intelligent Systems and Computing, 2015, , 169-180.	0.6	43

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19	Phase Retrieval from Incomplete Magnitude Information via Total Variation Regularization. SIAM Journal of Scientific Computing, 2016, 38, A3672-A3695.	2.8	42
20	Beam orientation optimization for intensity modulated radiation therapy using adaptivel2,1-minimization. Physics in Medicine and Biology, 2011, 56, 6205-6222.	3.0	37
21	Point Source Super-resolution Via Non-convex $$L_1$$ Based Methods. Journal of Scientific Computing, 2016, 68, 1082-1100.	2.3	36
22	Accelerated Schemes for the L_1/L_2 Minimization. IEEE Transactions on Signal Processing, 2020, 68, 2660-2669.	5.3	36
23	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
24	Joint CT/CBCT deformable registration and CBCT enhancement for cancer radiotherapy. Medical Image Analysis, 2013, 17, 387-400.	11.6	32
25	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
26	A Linear Systems Approach to Imaging Through Turbulence. Journal of Mathematical Imaging and Vision, 2014, 48, 185-201.	1.3	29
27	Limited-Angle CT Reconstruction via the L_1/L_2 Minimization. SIAM Journal on Imaging Sciences, 2021, 14, 749-777.	2.2	29
28	Poisson image denoising based on fractional-order total variation. Inverse Problems and Imaging, 2020, 14, 77-96.	1.1	28
29	Variational Multiplicative Noise Removal by DC Programming. Journal of Scientific Computing, 2016, 68, 1200-1216.	2.3	22
30	Image deblurring with an inaccurate blur kernel using a group-based low-rank image prior. Information Sciences, 2017, 408, 213-233.	6.9	21
31	Nonlocal Similarity Image Filtering. Lecture Notes in Computer Science, 2009, , 62-71.	1.3	21
32	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
33	Variational Phase Retrieval with Globally Convergent Preconditioned Proximal Algorithm. SIAM Journal on Imaging Sciences, 2018, 11, 56-93.	2.2	19
34	Blind Hyperspectral Unmixing Based on Graph Total Variation Regularization. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3338-3351.	6.3	18
35	Partially coherent ptychography by gradient decomposition of the probe. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, 157-169.	0.1	17
36	Probabilistic Structure Learning for EEG/MEG Source Imaging With Hierarchical Graph Priors. IEEE Transactions on Medical Imaging, 2021, 40, 321-334.	8.9	17

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37	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
38	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
39	Material elemental decomposition in dual and multi€energy CT via a sparsity€dictionary approach for proton stopping power ratio calculation. Medical Physics, 2018, 45, 1491-1503.	3.0	15
40	An image sharpening operator combined with framelet for image deblurring. Inverse Problems, 2020, 36, 045015.	2.0	14
41	A Novel Regularization Based on the Error Function for Sparse Recovery. Journal of Scientific Computing, 2021, 87, 1.	2.3	13
42	Partially Blind Deblurring of Barcode from Out-of-Focus Blur. SIAM Journal on Imaging Sciences, 2014, 7, 740-760.	2.2	11
43	Multienergy element€resolved cone beam CT (MEER€CBCT) realized on a conventional CBCT platform. Medical Physics, 2018, 45, 4461-4470.	3.0	10
44	L_{1-2} Regularized Logistic Regression. , 2019, , .		8
45	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
46	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
47	Minimizing L_1 over L_2 norms on the gradient. Inverse Problems, 2022, 38, 065011.	2.0	7
48	Fast Blind Hyperspectral Unmixing Based On Graph Laplacian. , 2019, , .		6
49	3D dictionary learning based iterative cone beam CT reconstruction. International Journal of Cancer Therapy and Oncology, 2014, 2, 020240.	0.2	6
50	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
51	Estimating Latent Brain Sources with Low-Rank Representation and Graph Regularization. Lecture Notes in Computer Science, 2018, , 304-316.	1.3	4
52	Autocalibration and Uncalibrated Reconstruction of Shape from Defocus. , 2007, , .		3
53	A weighted difference of anisotropic and isotropic total variation for relaxed Mumford-Shah image segmentation. , 2016, , .		3
54	Comparison of three undersampling approaches in computed tomography reconstruction. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1229-1241.	2.0	3

#	ARTICLE	IF	CITATIONS
55	Improving seismic data completion and efficiency using tensors. , 2019, , .		3
56	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
57	Improving seismic data completion via low-rank tensor optimization. , 2020, , .		2
58	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
59	Curve matching approaches to waveform classification: a case study using ICESat data. GIScience and Remote Sensing, 2016, 53, 739-758.	5.9	1
60	Empirical Studies on Phase Retrieval. , 2018, , .		1
61	Iteratively Reweighted Group Lasso Based on Log-Composite Regularization. SIAM Journal of Scientific Computing, 2021, 43, S655-S678.	2.8	1
62	Tensor-based reconstruction applied to regularized time-lapse data. Geophysical Journal International, 0, , .	2.4	1
63	A Dynamic CT Image Reconstruction Method by Inducing Prior Information from PCA Analysis. , 2009, , .		0
64	Spiral Scanning and Encased Cantilevers for High Spatial and Temporal Resolution in Atomic Force Microscopy. Biophysical Journal, 2013, 104, 512a.	0.5	0
65	Group-based truncated l_{1-2} model for image inpainting. , 2017, , .		0
66	One-dimensional phase retrieval: regularization, box relaxation and uniqueness. Inverse Problems, 2020, 36, 095004.	2.0	0
67	Automatic extraction of cell nuclei using dilated convolutional network. Inverse Problems and Imaging, 2021, 15, 27-40.	1.1	0
68	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
69	TH-C-BRA-03: GPU-Based Cone Beam CT Reconstruction. Medical Physics, 2010, 37, 3451-3452.	3.0	0
70	WE-A-301-11: Low Dose Multi-Slice Helical CT Reconstruction Using Tight Frame Regularization. Medical Physics, 2011, 38, 3798-3798.	3.0	0
71	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
72	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

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73	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
74	Two-Step Blind Deconvolution of UPC-A Barcode Images. Association for Women in Mathematics Series, 2021, , 49-71.	0.4	0
75	A GPU-based Implementation of Multimodal Deformable Image Registration Based on Mutual Information or Bhattacharyya Distance. The Insight Journal, 2011, , .	0.2	0