Xiliang Lu

List of Publications by Year in descending order

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50	725	15	25 g-index
papers	citations	h-index	g-index
50 all docs	50 docs citations	50 times ranked	562 citing authors

#	Article	lF	CITATIONS
1	Stripe Noise Separation and Removal in Remote Sensing Images by Consideration of the Global Sparsity and Local Variational Properties. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3049-3060.	6.3	7 5
2	A primal dual active set with continuation algorithm forÂtheÂ <mml:math altimg="si1.gif" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>â,,"</mml:mi></mml:mrow><mml:mrow><mml:mn>0<td>nml:mn><</td><td>/mml:mrow><!--</td--></td></mml:mn></mml:mrow></mml:msup></mml:math>	nml:mn><	/mml:mrow> </td
3	A Universal Destriping Framework Combining 1-D and 2-D Variational Optimization Methods. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 808-822.	6.3	43
4	Numerical identification of a Robin coefficient in parabolic problems. Mathematics of Computation, 2012, 81, 1369-1398.	2.1	37
5	Alternating Direction Method of Multipliers for Linear Inverse Problems. SIAM Journal on Numerical Analysis, 2016, 54, 2114-2137.	2.3	37
6	An Alternating Direction Method with Continuation for Nonconvex Low Rank Minimization. Journal of Scientific Computing, 2016, 66, 849-869.	2.3	35
7	Group Sparse Recovery via the \$ell ^0(ell ^2)\$ Penalty: Theory and Algorithm. IEEE Transactions on Signal Processing, 2017, 65, 998-1012.	5.3	31
8	A Primal Dual Active Set Algorithm With Continuation for Compressed Sensing. IEEE Transactions on Signal Processing, 2014, 62, 6276-6285.	5.3	30
9	A Nonconvex Model with Minimax Concave Penalty for Image Restoration. Journal of Scientific Computing, 2019, 78, 1063-1086.	2.3	30
10	Membership Affinity Lasso for Fuzzy Clustering. IEEE Transactions on Fuzzy Systems, 2020, 28, 294-307.	9.8	30
11	Preasymptotic convergence of randomized Kaczmarz method. Inverse Problems, 2017, 33, 125012.	2.0	26
12	A simple finite element method for boundary value problems with a Riemann–Liouville derivative. Journal of Computational and Applied Mathematics, 2016, 293, 94-111.	2.0	25
13	An analysis of finite element approximation in electrical impedance tomography. Inverse Problems, 2014, 30, 045013.	2.0	20
14	Tikhonov Regularisation Method for Simultaneous Inversion of the Source Term and Initial Data in a Time-Fractional Diffusion Equation. East Asian Journal on Applied Mathematics, 2015, 5, 273-300.	0.9	19
15	Computation of Time Optimal Control Problems Governed by Linear Ordinary Differential Equations. Journal of Scientific Computing, 2017, 73, 1-25.	2.3	19
16	A Unified Primal Dual Active Set Algorithm for Nonconvex Sparse Recovery. Statistical Science, 2021, 36, .	2.8	17
17	On the regularizing property of stochastic gradient descent. Inverse Problems, 2019, 35, 015004.	2.0	16
18	Optimization-based structure identification of dynamical networks. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 1038-1049.	2.6	13

#	Article	IF	CITATIONS
19	Iterative Soft/Hard Thresholding With Homotopy Continuation for Sparse Recovery. IEEE Signal Processing Letters, 2017, 24, 784-788.	3.6	13
20	Analysis of a sequential regularization method for the unsteady Navier-Stokes equations. Mathematics of Computation, 2008, 77, 1467-1494.	2.1	12
21	Error estimate of the P 1 nonconforming finite element method for the penalized unsteady Navier-Stokes equations. Numerische Mathematik, 2010, 115, 261-287.	1.9	12
22	A fast nonstationary iterative method with convex penalty for inverse problems in Hilbert spaces. Inverse Problems, 2014, 30, 045012.	2.0	12
23	Robust Decoding from 1-Bit Compressive Sampling with Ordinary and Regularized Least Squares. SIAM Journal of Scientific Computing, 2018, 40, A2062-A2086.	2.8	12
24	An Inverse Source Problem with Sparsity Constraint for the Time-Fractional Diffusion Equation. Advances in Applied Mathematics and Mechanics, 2016, 8, 1-18.	1.2	10
25	Preconditioned alternating direction method of multipliers for inverse problems with constraints. Inverse Problems, 2017, 33, 025004.	2.0	8
26	Optimal control for multi-phase fluid Stokes problems. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 585-599.	1.1	7
27	Optimal control for an elliptic system with convex polygonal control constraints. IMA Journal of Numerical Analysis, 2013, 33, 875-897.	2.9	7
28	Optimal control for elliptic systems with pointwise euclidean norm constraints on the controls. Mathematical Programming, 2013, 142, 461-483.	2.4	7
29	Sparse signal recovery from phaseless measurements via hard thresholding pursuit. Applied and Computational Harmonic Analysis, 2022, 56, 367-390.	2.2	6
30	Long Time Numerical Solution of the Navier–Stokes Equations Based on a Sequential Regularization Formulation. SIAM Journal of Scientific Computing, 2008, 31, 398-419.	2.8	5
31	Two-level quadratic equal-order stabilized method for the Stokes eigenvalue problem. International Journal of Computer Mathematics, 2015, 92, 337-348.	1.8	5
32	Fuzzy clustering method with graph-based regularization. , 2016, , .		5
33	A stabilized finite element method for the convection dominated diffusion optimal control problem. Applicable Analysis, 2016, 95, 2807-2823.	1.3	5
34	GSDAR: a fast Newton algorithm for \$\$ell _0\$\$ regularized generalized linear models with statistical guarantee. Computational Statistics, 2022, 37, 507-533.	1.5	5
35	Imaging conductivity from current density magnitude using neural networks*. Inverse Problems, 2022, 38, 075003.	2.0	5
36	Optimal Control for an Elliptic System with Polygonal State Constraints. SIAM Journal on Control and Optimization, 2010, 48, 5053-5072.	2.1	4

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#	Article	IF	Citations
37	Numerical identification of a sparse Robin coefficient. Advances in Computational Mathematics, 2015, 41, 131-148.	1.6	4
38	Two-grid variational multiscale method with bubble stabilization for convection diffusion equation. Applied Mathematical Modelling, 2016, 40, 1097-1109.	4.2	4
39	Finite element approximation to the extremal eigenvalue problem for inhomogenous materials. Numerische Mathematik, 2015, 130, 741-762.	1.9	3
40	Lq-regularization for the inverse Robin problem. Journal of Inverse and Ill-Posed Problems, 2016, 24, .	1.0	3
41	One-Step High-Quality NDVI Time-Series Reconstruction by Joint Modeling of Gradual Vegetation Change and Negatively Biased Atmospheric Contamination. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	3
42	A Rate of Convergence of Physics Informed Neural Networks for the Linear Second Order Elliptic PDEs. Communications in Computational Physics, 2022, 31, 1272-1295.	1.7	3
43	Imaging Anisotropic Conductivities from Current Densities. SIAM Journal on Imaging Sciences, 2022, 15, 860-891.	2.2	2
44	Extremal Eigenvalues of the Sturm-Liouville Problems with Discontinuous Coefficients. Numerical Mathematics, 2013, 6, 657-684.	1.3	1
45	Robust Nonconvex Nonnegative Low-rank Representation. , 2019, , .		1
46	Heuristic discrepancy principle for variational regularization of inverse problems. Inverse Problems, 2020, 36, 075013.	2.0	1
47	Smoothing Newton method for $\theta = 10^5 + 10^5$ regularized linear inverse problem. Inverse Problems and Imaging, 2021, .	1.1	0
48	PSNA: A pathwise semismooth Newton algorithm for sparse recovery with optimal local convergence and oracle properties. Signal Processing, 2022, 194, 108432.	3.7	0
49	Finite element method for an eigenvalue optimization problem of the SchrĶdinger operator. AlMS Mathematics, 2022, 7, 5049-5071.	1.6	0
50	A data-driven line search rule for support recovery in high-dimensional data analysis. Computational Statistics and Data Analysis, 2022, 174, 107524.	1.2	0