

Xiliang Lu

List of Publications by Year in descending order

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papers

725
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all docs

50
docs citations

50
times ranked

562
citing authors

#	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 ℓ_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

#	ARTICLE	IF	CITATIONS
37	Numerical identification of a sparse Robin coefficient. <i>Advances in Computational Mathematics</i> , 2015, 41, 131-148.	1.6	4
38	Two-grid variational multiscale method with bubble stabilization for convection diffusion equation. <i>Applied Mathematical Modelling</i> , 2016, 40, 1097-1109.	4.2	4
39	Finite element approximation to the extremal eigenvalue problem for inhomogenous materials. <i>Numerische Mathematik</i> , 2015, 130, 741-762.	1.9	3
40	Lq-regularization for the inverse Robin problem. <i>Journal of Inverse and Ill-Posed Problems</i> , 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. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-17.	6.3	3
42	A Rate of Convergence of Physics Informed Neural Networks for the Linear Second Order Elliptic PDEs. <i>Communications in Computational Physics</i> , 2022, 31, 1272-1295.	1.7	3
43	Imaging Anisotropic Conductivities from Current Densities. <i>SIAM Journal on Imaging Sciences</i> , 2022, 15, 860-891.	2.2	2
44	Extremal Eigenvalues of the Sturm-Liouville Problems with Discontinuous Coefficients. <i>Numerical Mathematics</i> , 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. <i>Inverse Problems</i> , 2020, 36, 075013.	2.0	1
47	Smoothing Newton method for ℓ^0 - ℓ^2 regularized linear inverse problem. <i>Inverse Problems and Imaging</i> , 2021, .	1.1	0
48	PSNA: A pathwise semismooth Newton algorithm for sparse recovery with optimal local convergence and oracle properties. <i>Signal Processing</i> , 2022, 194, 108432.	3.7	0
49	Finite element method for an eigenvalue optimization problem of the Schrödinger operator. <i>AIMS Mathematics</i> , 2022, 7, 5049-5071.	1.6	0
50	A data-driven line search rule for support recovery in high-dimensional data analysis. <i>Computational Statistics and Data Analysis</i> , 2022, 174, 107524.	1.2	0