

Stanley Osher

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

14,308
citations

25
h-index

78
g-index

78
ext. papers

17,151
ext. citations

3
avg, IF

6.39
L-index

#	Paper	IF	Citations
75	Nonlinear total variation based noise removal algorithms. <i>Physica D: Nonlinear Phenomena</i> , 1992 , 60, 259-268	3.3	9101
74	An Iterative Regularization Method for Total Variation-Based Image Restoration. <i>Multiscale Modeling and Simulation</i> , 2005 , 4, 460-489	1.8	1124
73	Bregman Iterative Algorithms for ℓ_1 -Minimization with Applications to Compressed Sensing. <i>SIAM Journal on Imaging Sciences</i> , 2008 , 1, 143-168	1.9	920
72	Fast Global Minimization of the Active Contour/Snake Model. <i>Journal of Mathematical Imaging and Vision</i> , 2007 , 28, 151-167	1.6	613
71	Structure-Texture Image Decomposition Modeling, Algorithms, and Parameter Selection. <i>International Journal of Computer Vision</i> , 2006 , 67, 111-136	10.6	407
70	Geometric Applications of the Split Bregman Method: Segmentation and Surface Reconstruction. <i>Journal of Scientific Computing</i> , 2010 , 45, 272-293	2.3	273
69	A Unified Primal-Dual Algorithm Framework Based on Bregman Iteration. <i>Journal of Scientific Computing</i> , 2011 , 46, 20-46	2.3	258
68	Image Recovery via Nonlocal Operators. <i>Journal of Scientific Computing</i> , 2010 , 42, 185-197	2.3	212
67	A Level Set Approach for the Numerical Simulation of Dendritic Growth. <i>Journal of Scientific Computing</i> , 2003 , 19, 183-199	2.3	115
66	Robust 1-bit Compressive Sensing Using Adaptive Outlier Pursuit. <i>IEEE Transactions on Signal Processing</i> , 2012 , 60, 3868-3875	4.8	111
65	Fast nonlocal filtering applied to electron cryomicroscopy 2008 ,		106
64	Nonlinear inverse scale space methods. <i>Communications in Mathematical Sciences</i> , 2006 , 4, 179-212	1	95
63	A Splitting Method for Orthogonality Constrained Problems. <i>Journal of Scientific Computing</i> , 2014 , 58, 431-449	2.3	88
62	Level-set methods for the simulation of epitaxial phenomena. <i>Physical Review E</i> , 1998 , 58, R6927-R6930	2.4	70
61	An adaptive inverse scale space method for compressed sensing. <i>Mathematics of Computation</i> , 2012 , 82, 269-299	1.6	53
60	Low Dimensional Manifold Model for Image Processing. <i>SIAM Journal on Imaging Sciences</i> , 2017 , 10, 1669-1690	1.4	51
59	Algorithms for overcoming the curse of dimensionality for certain Hamilton-Jacobi equations arising in control theory and elsewhere. <i>Research in Mathematical Sciences</i> , 2016 , 3, 1	1.5	50

58	Monte Carlo data-driven tight frame for seismic data recovery. <i>Geophysics</i> , 2016 , 81, V327-V340	3.1	45
57	Hyperspectral Anomaly Detection via Global and Local Joint Modeling of Background. <i>IEEE Transactions on Signal Processing</i> , 2019 , 67, 3858-3869	4.8	43
56	Error Forgetting of Bregman Iteration. <i>Journal of Scientific Computing</i> , 2013 , 54, 684-695	2.3	42
55	Unsupervised Classification in Hyperspectral Imagery With Nonlocal Total Variation and Primal-Dual Hybrid Gradient Algorithm. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017 , 55, 2786-2798	8.1	33
54	Nonlocal Structure Tensor Functionals for Image Regularization. <i>IEEE Transactions on Computational Imaging</i> , 2015 , 1, 16-29	4.5	33
53	A Parallel Method for Earth Mover's Distance. <i>Journal of Scientific Computing</i> , 2018 , 75, 182-197	2.3	32
52	Total variation and level set methods in image science. <i>Acta Numerica</i> , 2005 , 14, 509-573	15.1	29
51	Fast singular value thresholding without singular value decomposition. <i>Methods and Applications of Analysis</i> , 2013 , 20, 335-352	0.3	27
50	Topology Preserving Log-Unbiased Nonlinear Image Registration: Theory and Implementation 2007		25
49	Blended coarse gradient descent for full quantization of deep neural networks. <i>Research in Mathematical Sciences</i> , 2019 , 6, 1	1.5	20
48	Sparse recovery via differential inclusions. <i>Applied and Computational Harmonic Analysis</i> , 2016 , 41, 436-469	3.9	20
47	Weighted Nonlocal Laplacian on Interpolation from Sparse Data. <i>Journal of Scientific Computing</i> , 2017 , 73, 1164-1177	2.3	18
46	A Multiphase Image Segmentation Based on Fuzzy Membership Functions and L1-Norm Fidelity. <i>Journal of Scientific Computing</i> , 2016 , 69, 82-106	2.3	17
45	Algorithm for Overcoming the Curse of Dimensionality For Time-Dependent Non-convex Hamilton-Jacobi Equations Arising From Optimal Control and Differential Games Problems. <i>Journal of Scientific Computing</i> , 2017 , 73, 617-643	2.3	15
44	Solving Large-Scale Optimization Problems with a Convergence Rate Independent of Grid Size. <i>SIAM Journal on Numerical Analysis</i> , 2019 , 57, 1100-1123	2.4	15
43	An L1-based variational model for Retinex theory and its application to medical images 2011 ,		14
42	A Simple Compressive Sensing Algorithm for Parallel Many-Core Architectures. <i>Journal of Signal Processing Systems</i> , 2013 , 71, 1-20	1.4	13
41	Bregmanized Domain Decomposition for Image Restoration. <i>Journal of Scientific Computing</i> , 2013 , 54, 549-576	2.3	13

40	Denoising by BV-duality. <i>Journal of Scientific Computing</i> , 2006 , 28, 411-444	2.3	13
39	Time-Optimal Collaborative Guidance Using the Generalized Hopf Formula 2018 , 2, 201-206		12
38	Exact Low-Rank Matrix Completion from Sparsely Corrupted Entries Via Adaptive Outlier Pursuit. <i>Journal of Scientific Computing</i> , 2013 , 56, 433-449	2.3	12
37	A split Bregman method for non-negative sparsity penalized least squares with applications to hyperspectral demixing 2010 ,		12
36	Generalization of the Weighted Nonlocal Laplacian in Low Dimensional Manifold Model. <i>Journal of Scientific Computing</i> , 2018 , 75, 638-656	2.3	11
35	Block Matching Local SVD Operator Based Sparsity and TV Regularization for Image Denoising. <i>Journal of Scientific Computing</i> , 2019 , 78, 607-624	2.3	11
34	Asymmetric and Symmetric Unbiased Image Registration: Statistical Assessment of Performance. <i>IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops</i> , 2008 , 2008,	1.3	11
33	Noise attenuation in a low-dimensional manifold. <i>Geophysics</i> , 2017 , 82, V321-V334	3.1	10
32	Numerical methods for anisotropic mean curvature flow based on a discrete time variational formulation. <i>Communications in Mathematical Sciences</i> , 2011 , 9, 637-662	1	9
31	Alternating the population and control neural networks to solve high-dimensional stochastic mean-field games. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	9
30	Algorithm for Hamilton-Jacobi Equations in Density Space Via a Generalized Hopf Formula. <i>Journal of Scientific Computing</i> , 2019 , 80, 1195-1239	2.3	8
29	Multi-Channel ℓ_1 Regularized Convex Speech Enhancement Model and Fast Computation by the Split Bregman Method. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2012 , 20, 661-675		8
28	On a mathematical theory of coded exposure. <i>Research in Mathematical Sciences</i> , 2016 , 3, 1	1.5	7
27	Partial differential equations for training deep neural networks 2017 ,		7
26	Algorithm for overcoming the curse of dimensionality for certain non-convex Hamilton-Jacobi equations, projections and differential games. <i>Annals of Mathematical Sciences and Applications</i> , 2018 , 3, 369-403	1.3	7
25	s-SMOOTH: Sparsity and Smoothness Enhanced EEG Brain Tomography. <i>Frontiers in Neuroscience</i> , 2016 , 10, 543	5.1	7
24	Scientific data interpolation with low dimensional manifold model. <i>Journal of Computational Physics</i> , 2018 , 352, 213-245	4.1	6
23	Level Set Based Simulations of Two-Phase Oil-Water Flows in Pipes. <i>Journal of Scientific Computing</i> , 2007 , 31, 153-184	2.3	6

22	Joint Sensing Task Assignment and Collision-Free Trajectory Optimization for Mobile Vehicle Networks Using Mean-Field Games. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 8488-8503	10.7	6
21	Unbalanced and Partial (L ₁) Monge-Kantorovich Problem: A Scalable Parallel First-Order Method. <i>Journal of Scientific Computing</i> , 2018 , 75, 1596-1613	2.3	6
20	Stochastic Backward Euler: An Implicit Gradient Descent Algorithm for k-Means Clustering. <i>Journal of Scientific Computing</i> , 2018 , 77, 1133-1146	2.3	5
19	A Primal-Dual Method for Optimal Control and Trajectory Generation in High-Dimensional Systems 2018 ,		4
18	A note on the Bregmanized Total Variation and dual forms 2009 ,		3
17	Multiphase Segmentation of Deformation using Logarithmic Priors 2007 ,		3
16	Optimal human navigation in steep terrain: a Hamilton-Jacobi-Bellman approach. <i>Communications in Mathematical Sciences</i> , 2019 , 17, 227-242	1	3
15	Task Selection and Route Planning for Mobile Crowd Sensing Using Multi-Population Mean-Field Games 2021 ,		2
14	Scalable Low Dimensional Manifold Model In The Reconstruction Of Noisy And Incomplete Hyperspectral Images 2018 ,		2
13	Scheduled Restart Momentum for Accelerated Stochastic Gradient Descent. <i>SIAM Journal on Imaging Sciences</i> , 2022 , 15, 738-761	1.9	2
12	Accelerated high-resolution EEG source imaging 2017 ,		1
11	Low Dimensional Manifold Model in Hyperspectral Image Reconstruction. <i>Advances in Computer Vision and Pattern Recognition</i> , 2020 , 295-317	1.1	1
10	A convex model and L1 minimization for musical noise reduction in blind source separation. <i>Communications in Mathematical Sciences</i> , 2012 , 10, 223-238	1	1
9	Energy-Efficient Velocity Control for Massive Numbers of UAVs: A Mean Field Game Approach. <i>IEEE Transactions on Vehicular Technology</i> , 2022 , 1-1	6.8	1
8	A Neural Network Approach for High-Dimensional Optimal Control Applied to Multiagent Path Finding. <i>IEEE Transactions on Control Systems Technology</i> , 2022 , 1-17	4.8	1
7	Task Selection and Collision-Free Route Planning for Mobile Crowd Sensing Using Multi-Population Mean-Field Games. <i>IEEE Transactions on Green Communications and Networking</i> , 2021 , 1-1	4	0
6	Room temperature rectification in tapered-channel thermal diodes through nanoscale confinement-induced liquid-solid phase change. <i>Journal of Applied Physics</i> , 2021 , 129, 075103	2.5	0
5	Generalized Proximal Smoothing for Phase Retrieval. <i>Microscopy and Microanalysis</i> , 2019 , 25, 118-119	0.5	

- 4 The Penultimate Scheme for Systems of Conservation Laws: Finite Difference ENO with Marquina's Flux Splitting **2001**, 49-85
- 3 Sparse Recovery via ℓ_1 and ℓ_1 Optimization. *Notices of the International Congress of Chinese Mathematicians*, **2015**, 3, 4-10 0.2
- 2 Opinion Evolution in Social Networks: Connecting Mean Field Games to Generative Adversarial Nets. *IEEE Transactions on Network Science and Engineering*, **2022**, 1-1 4.9
- 1 Wasserstein-Based Projections with Applications to Inverse Problems. *SIAM Journal on Mathematics of Data Science*, **2022**, 4, 581-603 3.1