Stanley Osher

List of Publications by Year in Descending Order

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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	14,308	25	78
papers	citations	h-index	g-index
78	17,151 ext. citations	3	6.39
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
75	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
74	Opinion Evolution in Social Networks: Connecting Mean Field Games to Generative Adversarial Nets. <i>IEEE Transactions on Network Science and Engineering</i> , 2022 , 1-1	4.9	
73	Wasserstein-Based Projections with Applications to Inverse Problems. <i>SIAM Journal on Mathematics of Data Science</i> , 2022 , 4, 581-603	3.1	
72	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
71	Scheduled Restart Momentum for Accelerated Stochastic Gradient Descent. <i>SIAM Journal on Imaging Sciences</i> , 2022 , 15, 738-761	1.9	2
70	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
69	Task Selection and Route Planning for Mobile Crowd Sensing Using Multi-Population Mean-Field Games 2021 ,		2
68	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
67	Room temperature rectification in tapered-channel thermal diodes through nanoscale confinement-induced liquidBolid phase change. <i>Journal of Applied Physics</i> , 2021 , 129, 075103	2.5	O
66	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
65	Low Dimensional Manifold Model in Hyperspectral Image Reconstruction. <i>Advances in Computer Vision and Pattern Recognition</i> , 2020 , 295-317	1.1	1
64	Blended coarse gradient descent for full quantization of deep neural networks. <i>Research in Mathematical Sciences</i> , 2019 , 6, 1	1.5	20
63	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
62	Algorithm for Hamilton Dacobi Equations in Density Space Via a Generalized Hopf Formula. <i>Journal of Scientific Computing</i> , 2019 , 80, 1195-1239	2.3	8
61	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
60	Generalized Proximal Smoothing for Phase Retrieval. <i>Microscopy and Microanalysis</i> , 2019 , 25, 118-119	0.5	
59	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

58	Optimal human navigation in steep terrain: a Hamilton Dacobi Bellman approach. <i>Communications in Mathematical Sciences</i> , 2019 , 17, 227-242	1	3
57	Time-Optimal Collaborative Guidance Using the Generalized Hopf Formula 2018 , 2, 201-206		12
56	Scientific data interpolation with low dimensional manifold model. <i>Journal of Computational Physics</i> , 2018 , 352, 213-245	4.1	6
55	Generalization of the Weighted Nonlocal Laplacian in Low Dimensional Manifold Model. <i>Journal of Scientific Computing</i> , 2018 , 75, 638-656	2.3	11
54	Algorithm for overcoming the curse of dimensionality for certain non-convex Hamilton Dacobi equations, projections and differential games. <i>Annals of Mathematical Sciences and Applications</i> , 2018 , 3, 369-403	1.3	7
53	Unbalanced and Partial (L_1) Monge K antorovich Problem: A Scalable Parallel First-Order Method. Journal of Scientific Computing, 2018 , 75, 1596-1613	2.3	6
52	A Parallel Method for Earth Mover Distance. Journal of Scientific Computing, 2018, 75, 182-197	2.3	32
51	A Primal-Dual Method for Optimal Control and Trajectory Generation in High-Dimensional Systems 2018 ,		4
50	Scalable Low Dimensional Manifold Model In The Reconstruction Of Noisy And Incomplete Hyperspectral Images 2018 ,		2
49	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
48	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
47	Weighted Nonlocal Laplacian on Interpolation from Sparse Data. <i>Journal of Scientific Computing</i> , 2017 , 73, 1164-1177	2.3	18
46	Algorithm for Overcoming the Curse of Dimensionality For Time-Dependent Non-convex Hamilton I acobi Equations Arising From Optimal Control and Differential Games Problems. <i>Journal of Scientific Computing</i> , 2017 , 73, 617-643	2.3	15
45	Noise attenuation in a low-dimensional manifold. <i>Geophysics</i> , 2017 , 82, V321-V334	3.1	10
44	Low Dimensional Manifold Model for Image Processing. SIAM Journal on Imaging Sciences, 2017 , 10, 16	56 9. ∮69	9051
43	Accelerated high-resolution EEG source imaging 2017,		1
42	Partial differential equations for training deep neural networks 2017,		7
41	Monte Carlo data-driven tight frame for seismic data recovery. <i>Geophysics</i> , 2016 , 81, V327-V340	3.1	45

40	On a mathematical theory of coded exposure. Research in Mathematical Sciences, 2016, 3, 1	1.5	7
39	A Multiphase Image Segmentation Based on Fuzzy Membership Functions and L1-Norm Fidelity. Journal of Scientific Computing, 2016 , 69, 82-106	2.3	17
38	s-SMOOTH: Sparsity and Smoothness Enhanced EEG Brain Tomography. <i>Frontiers in Neuroscience</i> , 2016 , 10, 543	5.1	7
37	Sparse recovery via differential inclusions. Applied and Computational Harmonic Analysis, 2016, 41, 436-	·4 69	20
36	Algorithms for overcoming the curse of dimensionality for certain Hamilton Dacobi equations arising in control theory and elsewhere. <i>Research in Mathematical Sciences</i> , 2016 , 3, 1	1.5	50
35	Nonlocal Structure Tensor Functionals for Image Regularization. <i>IEEE Transactions on Computational Imaging</i> , 2015 , 1, 16-29	4.5	33
34	Sparse Recovery via \$ell_1\$ and \$L_1\$ Optimization. <i>Notices of the International Congress of Chinese Mathematicians</i> , 2015 , 3, 4-10	0.2	
33	A Splitting Method for Orthogonality Constrained Problems. <i>Journal of Scientific Computing</i> , 2014 , 58, 431-449	2.3	88
32	Exact Low-Rank Matrix Completion from Sparsely Corrupted Entries Via Adaptive Outlier Pursuit. Journal of Scientific Computing, 2013 , 56, 433-449	2.3	12
31	A Simple Compressive Sensing Algorithm for Parallel Many-Core Architectures. <i>Journal of Signal Processing Systems</i> , 2013 , 71, 1-20	1.4	13
30	Bregmanized Domain Decomposition for Image Restoration. <i>Journal of Scientific Computing</i> , 2013 , 54, 549-576	2.3	13
29	Error Forgetting of Bregman Iteration. Journal of Scientific Computing, 2013, 54, 684-695	2.3	42
28	Fast singular value thresholding without singular value decomposition. <i>Methods and Applications of Analysis</i> , 2013 , 20, 335-352	0.3	27
27	Multi-Channel \$_{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, 661-6	75	8
26	Robust 1-bit Compressive Sensing Using Adaptive Outlier Pursuit. <i>IEEE Transactions on Signal Processing</i> , 2012 , 60, 3868-3875	4.8	111
25	An adaptive inverse scale space method for compressed sensing. <i>Mathematics of Computation</i> , 2012 , 82, 269-299	1.6	53
24	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
23	A Unified Primal-Dual Algorithm Framework Based on Bregman Iteration. <i>Journal of Scientific Computing</i> , 2011 , 46, 20-46	2.3	258

22	An L1-based variational model for Retinex theory and its application to medical images 2011,		14
21	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
20	A split Bregman method for non-negative sparsity penalized least squares with applications to hyperspectral demixing 2010 ,		12
19	Image Recovery via Nonlocal Operators. <i>Journal of Scientific Computing</i> , 2010 , 42, 185-197	2.3	212
18	Geometric Applications of the Split Bregman Method: Segmentation and Surface Reconstruction. Journal of Scientific Computing, 2010 , 45, 272-293	2.3	273
17	A note on the Bregmanized Total Variation and dual forms 2009,		3
16	Fast nonlocal filtering applied to electron cryomicroscopy 2008,		106
15	Asymmetric and Symmetric Unbiased Image Registration: Statistical Assessment of Performance. IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops, 2008, 2008,	1.3	11
14	Bregman Iterative Algorithms for \$ell_1\$-Minimization with Applications to Compressed Sensing. <i>SIAM Journal on Imaging Sciences</i> , 2008 , 1, 143-168	1.9	920
13	Fast Global Minimization of the Active Contour/Snake Model. <i>Journal of Mathematical Imaging and Vision</i> , 2007 , 28, 151-167	1.6	613
12	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
11	Topology Preserving Log-Unbiased Nonlinear Image Registration: Theory and Implementation 2007 ,		25
10	Multiphase Segmentation of Deformation using Logarithmic Priors 2007,		3
9	Structure-Texture Image Decomposition Modeling, Algorithms, and Parameter Selection. <i>International Journal of Computer Vision</i> , 2006 , 67, 111-136	10.6	407
8	Denoising by BV-duality. <i>Journal of Scientific Computing</i> , 2006 , 28, 411-444	2.3	13
7	Nonlinear inverse scale space methods. <i>Communications in Mathematical Sciences</i> , 2006 , 4, 179-212	1	95
6	An Iterative Regularization Method for Total Variation-Based Image Restoration. <i>Multiscale Modeling and Simulation</i> , 2005 , 4, 460-489	1.8	1124
5	Total variation and level set methods in image science. <i>Acta Numerica</i> , 2005 , 14, 509-573	15.1	29

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4	A Level Set Approach for the Numerical Simulation of Dendritic Growth. <i>Journal of Scientific Computing</i> , 2003 , 19, 183-199	2.3	115
3	The Penultimate Scheme for Systems of Conservation Laws: Finite Difference ENO with Marquina's Flux Splitting 2001 , 49-85		
2	Level-set methods for the simulation of epitaxial phenomena. <i>Physical Review E</i> , 1998 , 58, R6927-R693	0 2.4	70

Nonlinear total variation based noise removal algorithms. Physica D: Nonlinear Phenomena, 1992,

60, 259-268