

Yuesheng Xu

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.

50
papers

833
citations

13
h-index

28
g-index

57
ext. papers

1,066
ext. citations

3
avg, IF

4.18
L-index

#	Paper	IF	Citations
50	Minimum norm interpolation in the $\ell_1(N)$ space. <i>Analysis and Applications</i> , 2021 , 19, 21-42	2.5	0
49	Adaptive display images. <i>Analysis and Applications</i> , 2020 , 18, 1-23	2.5	1
48	A Two-Step Fixed-Point Proximity Algorithm for a Class of Non-differentiable Optimization Models in Machine Learning. <i>Journal of Scientific Computing</i> , 2019 , 81, 923-940	2.3	0
47	Matrix completion via minimizing an approximate rank. <i>Analysis and Applications</i> , 2019 , 17, 689-713	2.5	2
46	Sparsity promoting regularization for effective noise suppression in SPECT image reconstruction. <i>Inverse Problems</i> , 2019 , 35,	2.3	1
45	A Krasnoselskii-Mann Algorithm With an Improved EM Preconditioner for PET Image Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 2114-2126	11.7	2
44	Computing Integrals Involved the Gaussian Function with a Small Standard Deviation. <i>Journal of Scientific Computing</i> , 2019 , 78, 1744-1767	2.3	3
43	A Higher-Order Polynomial Method for SPECT Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 1271-1283	11.7	5
42	A Fully Discrete Fast Fourier Galerkin Method Solving a Boundary Integral Equation for the Biharmonic Equation. <i>Journal of Scientific Computing</i> , 2018 , 76, 1594-1632	2.3	1
41	A Convergent Fixed-Point Proximity Algorithm Accelerated by FISTA for the ℓ_1 Sparse Recovery Problem. <i>Mathematics and Visualization</i> , 2018 , 27-45	0.6	1
40	Infimal convolution-based regularization for SPECT reconstruction. <i>Medical Physics</i> , 2018 , 45, 5397-5410	4.4	2
39	A fast discrete spectral method for stochastic partial differential equations. <i>Advances in Computational Mathematics</i> , 2017 , 43, 973-998	1.6	0
38	Relaxed ordered subset preconditioned alternating projection algorithm for PET reconstruction with automated penalty weight selection. <i>Medical Physics</i> , 2017 , 44, 4083-4097	4.4	6
37	H-BLAST: a fast protein sequence alignment toolkit on heterogeneous computers with GPUs. <i>Bioinformatics</i> , 2017 , 33, 1130-1138	7.2	6
36	Preconditioned alternating projection algorithm for solving the penalized-likelihood SPECT reconstruction problem. <i>Physica Medica</i> , 2017 , 38, 23-35	2.7	1
35	Wavelet inpainting with the ℓ_1 sparse regularization. <i>Applied and Computational Harmonic Analysis</i> , 2016 , 41, 26-53	3.1	17
34	Reducing Staircasing Artifacts in SPECT Reconstruction by an Infimal Convolution Regularization. <i>Journal of Computational Mathematics</i> , 2016 , 34, 626-647	2.1	4

33	A collocation method solving integral equation models for image restoration. <i>Journal of Integral Equations and Applications</i> , 2016 , 28,	1.2	4
32	Multi-step fixed-point proximity algorithms for solving a class of optimization problems arising from image processing. <i>Advances in Computational Mathematics</i> , 2015 , 41, 387-422	1.6	21
31	Effective noise-suppressed and artifact-reduced reconstruction of SPECT data using a preconditioned alternating projection algorithm. <i>Medical Physics</i> , 2015 , 42, 4872-87	4.4	7
30	High speed BLASTN: an accelerated MegaBLAST search tool. <i>Nucleic Acids Research</i> , 2015 , 43, 7762-8	20.1	132
29	SPECT reconstruction using DCT-induced tight framelet regularization 2015 ,		1
28	Fast Fourier-Galerkin Methods for Nonlinear Boundary Integral Equations. <i>Journal of Scientific Computing</i> , 2013 , 56, 494-514	2.3	6
27	Proximity algorithms for the L1/TV image denoising model. <i>Advances in Computational Mathematics</i> , 2013 , 38, 401-426	1.6	48
26	Finite rank kernels for multi-task learning. <i>Advances in Computational Mathematics</i> , 2013 , 38, 427-439	1.6	3
25	On computing with the Hilbert spline transform. <i>Advances in Computational Mathematics</i> , 2013 , 38, 623-646		7
24	Filter-based multiscale entropy analysis of complex physiological time series. <i>Physical Review E</i> , 2013 , 88, 022716	2.4	4
23	Preconditioned Alternating Projection Algorithms for Maximum a Posteriori ECT Reconstruction. <i>Inverse Problems</i> , 2012 , 28, 115005	2.3	36
22	Filters of wavelets on invariant sets for image denoising. <i>Applicable Analysis</i> , 2011 , 90, 1299-1322	0.8	7
21	Proximity algorithms for image models: denoising. <i>Inverse Problems</i> , 2011 , 27, 045009	2.3	137
20	A FAST ALGORITHM FOR COMPUTING SAMPLE ENTROPY. <i>Advances in Adaptive Data Analysis</i> , 2011 , 03, 167-186		23
19	Integral equation models for image restoration: high accuracy methods and fast algorithms. <i>Inverse Problems</i> , 2010 , 26, 045006	2.3	15
18	Orthonormal bases with nonlinear phases. <i>Advances in Computational Mathematics</i> , 2010 , 33, 75-95	1.6	23
17	Fast Fourier-Galerkin methods for first-kind logarithmic-kernel integral equations on open arcs. <i>Science China Mathematics</i> , 2010 , 53, 1-22	0.8	18
16	Approximation of kernel matrices by circulant matrices and its application in kernel selection methods. <i>Frontiers of Mathematics in China</i> , 2010 , 5, 123-160	0.8	3

15	RECENT MATHEMATICAL DEVELOPMENTS ON EMPIRICAL MODE DECOMPOSITION. <i>Advances in Adaptive Data Analysis</i> , 2009 , 01, 681-702		11
14	Graded Galerkin methods for the high-order convection-diffusion problem. <i>Numerical Methods for Partial Differential Equations</i> , 2009 , 25, 1261-1282	2.5	4
13	Multiparameter regularization for Volterra kernel identification via multiscale collocation methods. <i>Advances in Computational Mathematics</i> , 2009 , 31, 421-455	1.6	5
12	A Fast Collocation Method for Eigen-Problems of Weakly Singular Integral Operators. <i>Journal of Scientific Computing</i> , 2009 , 41, 256-272	2.3	11
11	Reproducing kernel Banach spaces for machine learning 2009 ,		6
10	On translation invariant operators which preserve the B-spline recurrence. <i>Advances in Computational Mathematics</i> , 2008 , 28, 157-169	1.6	4
9	Multi-Parameter Regularization Methods for High-Resolution Image Reconstruction With Displacement Errors. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2007 , 54, 1788-1799		23
8	On the matrix completion problem for multivariate filter bank construction. <i>Advances in Computational Mathematics</i> , 2007 , 26, 173-204	1.6	3
7	Multilevel augmentation methods for differential equations. <i>Advances in Computational Mathematics</i> , 2006 , 24, 213-238	1.6	28
6	A B-spline approach for empirical mode decompositions. <i>Advances in Computational Mathematics</i> , 2006 , 24, 171-195	1.6	162
5	An analysis of discontinuous Galerkin methods for elliptic problems. <i>Advances in Computational Mathematics</i> , 2006 , 25, 259-286	1.6	7
4	Tree wavelet approximations with applications. <i>Science in China Series A: Mathematics</i> , 2005 , 48, 680		3
3	B-SPLINE BASED EMPIRICAL MODE DECOMPOSITION. <i>Interdisciplinary Mathematical Sciences</i> , 2005 , 27-55	5	8
2	Approximation in $L_p [0,1]$ by n -convex functions. <i>Numerical Functional Analysis and Optimization</i> , 1990 , 11, 167-179	1	8
1	The computation of a best monotone L_p approximation for $1 \leq p$ Numerical Functional Analysis and Optimization, 1990 , 11, 811-822	1	2