

# Yuesheng Xu

## List of Publications by Year in descending order

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55  
papers

1,346  
citations

706676

14  
h-index

406436

35  
g-index

57  
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57  
docs citations

57  
times ranked

1272  
citing authors

#	ARTICLE	IF	CITATIONS
1	A content-adaptive unstructured grid based regularized CT reconstruction method with a SART-type preconditioned fixed-point proximity algorithm. <i>Inverse Problems</i> , 2022, 38, 035005.	1.0	1
2	A Super Fast Algorithm for Estimating Sample Entropy. <i>Entropy</i> , 2022, 24, 524.	1.1	5
3	A Fast Convergent Ordered-Subsets Algorithm With Subiteration-Dependent Preconditioners for PET Image Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2022, 41, 3289-3300.	5.4	1
4	Inverting Incomplete Fourier Transforms by a Sparse Regularization Model and Applications in Seismic Wavefield Modeling. <i>Journal of Scientific Computing</i> , 2022, 92, .	1.1	1
5	Minimum norm interpolation in the $\hat{L}_1(\hat{\cdot}, \cdot)$ space. <i>Analysis and Applications</i> , 2021, 19, 21-42.	1.2	3
6	Adaptive display images. <i>Analysis and Applications</i> , 2020, 18, 1-23.	1.2	1
7	A content-adaptive unstructured grid based integral equation method with the TV regularization for SPECT reconstruction. <i>Inverse Problems and Imaging</i> , 2020, 14, 27-52.	0.6	4
8	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.	1.1	3
9	Matrix completion via minimizing an approximate rank. <i>Analysis and Applications</i> , 2019, 17, 689-713.	1.2	3
10	Sparsity promoting regularization for effective noise suppression in SPECT image reconstruction. <i>Inverse Problems</i> , 2019, 35, 115011.	1.0	8
11	A Krasnoselskii-Mann Algorithm With an Improved EM Preconditioner for PET Image Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 2114-2126.	5.4	6
12	Computing Integrals Involved the Gaussian Function with a Small Standard Deviation. <i>Journal of Scientific Computing</i> , 2019, 78, 1744-1767.	1.1	4
13	A Higher-Order Polynomial Method for SPECT Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1271-1283.	5.4	9
14	A Fully Discrete Fast Fourierâ€Galerkin Method Solving a Boundary Integral Equation for the Biharmonic Equation. <i>Journal of Scientific Computing</i> , 2018, 76, 1594-1632.	1.1	2
15	A Convergent Fixed-Point Proximity Algorithm Accelerated by FISTA for the $\hat{L}_0$ Sparse Recovery Problem. <i>Mathematics and Visualization</i> , 2018, , 27-45.	0.4	4
16	Infimal convolutionâ€based regularization for <sc>SPECT</sc> reconstruction. <i>Medical Physics</i> , 2018, 45, 5397-5410.	1.6	4
17	A fast discrete spectral method for stochastic partial differential equations. <i>Advances in Computational Mathematics</i> , 2017, 43, 973-998.	0.8	2
18	Relaxed ordered subset preconditioned alternating projection algorithm for PET reconstruction with automated penalty weight selection. <i>Medical Physics</i> , 2017, 44, 4083-4097.	1.6	10

#	ARTICLE	IF	CITATIONS
19	H-BLAST: a fast protein sequence alignment toolkit on heterogeneous computers with GPUs. <i>Bioinformatics</i> , 2017, 33, 1130-1138.	1.8	18
20	Preconditioned alternating projection algorithm for solving the penalized-likelihood SPECT reconstruction problem. <i>Physica Medica</i> , 2017, 38, 23-35.	0.4	4
21	A collocation method solving integral equation models for image restoration. <i>Journal of Integral Equations and Applications</i> , 2016, 28, .	0.2	6
22	Wavelet inpainting with the $\ell_0$ sparse regularization. <i>Applied and Computational Harmonic Analysis</i> , 2016, 41, 26-53.	1.1	24
23	Reducing Staircasing Artifacts in SPECT Reconstruction by an Infimal Convolution Regularization. <i>Journal of Computational Mathematics</i> , 2016, 34, 626-647.	0.2	7
24	Effective noise-suppressed and artifact-reduced reconstruction of SPECT data using a preconditioned alternating projection algorithm. <i>Medical Physics</i> , 2015, 42, 4872-4887.	1.6	10
25	High speed BLASTN: an accelerated MegaBLAST search tool. <i>Nucleic Acids Research</i> , 2015, 43, 7762-7768.	6.5	322
26	SPECT reconstruction using DCT-induced tight framelet regularization. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
27	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.	0.8	31
28	Fast Fourier-Galerkin Methods for Nonlinear Boundary Integral Equations. <i>Journal of Scientific Computing</i> , 2013, 56, 494-514.	1.1	9
29	Proximity algorithms for the L1/TV image denoising model. <i>Advances in Computational Mathematics</i> , 2013, 38, 401-426.	0.8	67
30	Finite rank kernels for multi-task learning. <i>Advances in Computational Mathematics</i> , 2013, 38, 427-439.	0.8	3
31	On computing with the Hilbert spline transform. <i>Advances in Computational Mathematics</i> , 2013, 38, 623-646.	0.8	11
32	Filter-based multiscale entropy analysis of complex physiological time series. <i>Physical Review E</i> , 2013, 88, 022716.	0.8	5
33	Preconditioned alternating projection algorithms for maximum a posteriori ECT reconstruction. <i>Inverse Problems</i> , 2012, 28, 115005.	1.0	52
34	Filters of wavelets on invariant sets for image denoising. <i>Applicable Analysis</i> , 2011, 90, 1299-1322.	0.6	10
35	Proximity algorithms for image models: denoising. <i>Inverse Problems</i> , 2011, 27, 045009.	1.0	188
36	A FAST ALGORITHM FOR COMPUTING SAMPLE ENTROPY. <i>Advances in Adaptive Data Analysis</i> , 2011, 03, 167-186.	0.6	33

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37	Orthonormal bases with nonlinear phases. <i>Advances in Computational Mathematics</i> , 2010, 33, 75-95.	0.8	24
38	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	27
39	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.	0.4	3
40	Integral equation models for image restoration: high accuracy methods and fast algorithms. <i>Inverse Problems</i> , 2010, 26, 045006.	1.0	27
41	RECENT MATHEMATICAL DEVELOPMENTS ON EMPIRICAL MODE DECOMPOSITION. <i>Advances in Adaptive Data Analysis</i> , 2009, 01, 681-702.	0.6	12
42	Graded Galerkin methods for the high-order convection-diffusion problem. <i>Numerical Methods for Partial Differential Equations</i> , 2009, 25, 1261-1282.	2.0	5
43	Multiparameter regularization for Volterra kernel identification via multiscale collocation methods. <i>Advances in Computational Mathematics</i> , 2009, 31, 421-455.	0.8	7
44	A Fast Collocation Method for Eigen-Problems of Weakly Singular Integral Operators. <i>Journal of Scientific Computing</i> , 2009, 41, 256-272.	1.1	15
45	Reproducing kernel Banach spaces for machine learning. , 2009, , .		14
46	On translation invariant operators which preserve the B-spline recurrence. <i>Advances in Computational Mathematics</i> , 2008, 28, 157-169.	0.8	4
47	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.	0.1	28
48	On the matrix completion problem for multivariate filter bank construction. <i>Advances in Computational Mathematics</i> , 2007, 26, 173-204.	0.8	5
49	Multilevel augmentation methods for differential equations. <i>Advances in Computational Mathematics</i> , 2006, 24, 213-238.	0.8	36
50	A B-spline approach for empirical mode decompositions. <i>Advances in Computational Mathematics</i> , 2006, 24, 171-195.	0.8	222
51	An analysis of discontinuous Galerkin methods for elliptic problems. <i>Advances in Computational Mathematics</i> , 2006, 25, 259-286.	0.8	9
52	Tree wavelet approximations with applications. <i>Science in China Series A: Mathematics</i> , 2005, 48, 680.	0.5	5
53	B-SPLINE BASED EMPIRICAL MODE DECOMPOSITION. <i>Interdisciplinary Mathematical Sciences</i> , 2005, , 27-55.	0.4	14
54	Approximation in $L^p[0,1]$ by $n$ -convex functions. <i>Numerical Functional Analysis and Optimization</i> , 1990, 11, 167-179.	0.6	14

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55	The computation of a best monotone $L_p$ approximation for $1 < p < \infty$ . Numerical Functional Analysis and Optimization, 1990, 11, 811-822.	0.6	3