

Bin Hanâ€•

List of Articles by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Wavelet Galerkin Method for an Electromagnetic Scattering Problem. Journal of Scientific Computing, 2025, 104, .	2.6	1
2	Evaluating Snowfall Forecasts over the Midwestern and Eastern United States in the GFDL C-SHIELD Model. Weather and Forecasting, 2025, 40, 1711-1728.	1.9	0
3	Convergent Sixth-order Compact Finite Difference Method for Variable-Coefficient Elliptic PDEs in Curved Domains. Journal of Scientific Computing, 2025, 104, .	2.6	2
4	Vector subdivision schemes and their convergence for arbitrary matrix masks. Journal of Computational and Applied Mathematics, 2024, 437, 115478.	2.3	3
5	Sixth-order hybrid finite difference methods for elliptic interface problems with mixed boundary conditions. Journal of Computational Physics, 2024, 497, 112635.	3.6	7
6	Interpolating refinable functions and n_s -step interpolatory subdivision schemes. Advances in Computational Mathematics, 2024, 50, .	1.5	1
7	Generalized matrix spectral factorization with symmetry and applications to symmetric quasi-tight framelets. Applied and Computational Harmonic Analysis, 2023, 65, 67-111.	2.5	7
8	Compact 9-point finite difference methods with high accuracy order and/or M-matrix property for elliptic cross-interface problems. Journal of Computational and Applied Mathematics, 2023, 428, 115151.	2.3	3
9	Multivariate Generalized Hermite Subdivision Schemes. Constructive Approximation, 2023, 58, 407-462.	1.0	4
10	A high order compact finite difference scheme for elliptic interface problems with discontinuous and high-contrast coefficients. Applied Mathematics and Computation, 2022, 431, 127314.	1.8	6
11	Quasi-interpolating bivariate dual 2-subdivision using 1D stencils. Computer Aided Geometric Design, 2022, 98, 102139.	1.6	2
12	Sharp Wavenumber-Explicit Stability Bounds for 2D Helmholtz Equations. SIAM Journal on Numerical Analysis, 2022, 60, 1985-2013.	2.5	1
13	Compactly supported quasi-tight multiframelets with high balancing orders and compact framelet transforms. Applied and Computational Harmonic Analysis, 2021, 51, 295-332.	2.5	13
14	Microlocal Analysis and Characterization of Sobolev Wavefront Sets Using Shearlets. Constructive Approximation, 2021, 55, 661-704.	1.0	4
15	Wavelets on intervals derived from arbitrary compactly supported biorthogonal multiwavelets. Applied and Computational Harmonic Analysis, 2021, 53, 270-331.	2.5	13
16	Multivariate quasi-tight framelets with high balancing orders derived from any compactly supported refinable vector functions. Science China Mathematics, 2021, 65, 81-110.	1.1	12
17	Dirac assisted tree method for 1D heterogeneous Helmholtz equations with arbitrary variable wave numbers. Computers and Mathematics With Applications, 2021, 97, 416-438.	2.4	10
18	Sixth order compact finite difference schemes for Poisson interface problems with singular sources. Computers and Mathematics With Applications, 2021, 99, 2-25.	2.4	27

#	ARTICLE	IF	CITATIONS
19	Numerical solution of the viscous Burgersâ€™ equation using Localized Differential Quadrature method. Partial Differential Equations in Applied Mathematics, 2021, 4, 100044.	2.6	8
20	Analysis and Convergence of Hermite Subdivision Schemes. Foundations of Computational Mathematics, 2021, 23, 165-218.	1.9	6
21	Quasi-tight framelets with high vanishing moments derived from arbitrary refinable functions. Applied and Computational Harmonic Analysis, 2020, 49, 123-151.	2.5	11
22	Directional Compactly Supported Tensor Product Complex Tight Framelets with Applications to Image Denoising and Inpainting. SIAM Journal on Imaging Sciences, 2019, 12, 1739-1771.	2.0	12
23	Gibbs Phenomenon of Framelet Expansions and Quasi-projection Approximation. Journal of Fourier Analysis and Applications, 2019, 25, 2923-2956.	0.8	3
24	Directional compactly supported box spline tight framelets with simple geometric structure. Applied Mathematics Letters, 2019, 91, 213-219.	2.5	12
25	Derivative-orthogonal Riesz wavelets in Sobolev spaces with applications to differential equations. Applied and Computational Harmonic Analysis, 2019, 47, 759-794.	2.5	15
26	Biorthogonal multiwavelets on the interval for numerical solutions of Burgersâ€™ equation. Journal of Computational and Applied Mathematics, 2017, 317, 510-534.	2.3	35
27	Robustness properties of dimensionality reduction with Gaussian random matrices. Science China Mathematics, 2017, 60, 1753-1778.	1.1	2
28	Homogeneous wavelets and framelets with the refinable structure. Science China Mathematics, 2017, 60, 2173-2198.	1.1	23
29	Stability of the elastic net estimator. Journal of Complexity, 2016, 32, 20-39.	1.4	25
30	Directional tensor product complex tight framelets with low redundancy. Applied and Computational Harmonic Analysis, 2016, 41, 603-637.	2.5	31
31	On linear independence of integer shifts of compactly supported distributions. Journal of Approximation Theory, 2016, 201, 1-6.	0.6	8
32	Adaptive frame-based color image denoising. Applied and Computational Harmonic Analysis, 2016, 41, 54-74.	2.5	11
33	Smooth affine shear tight frames with MRA structure. Applied and Computational Harmonic Analysis, 2015, 39, 300-338.	2.5	28
34	Compactly Supported Tensor Product Complex Tight Framelets with Directionality. SIAM Journal on Mathematical Analysis, 2015, 47, 2464-2494.	1.5	15
35	Removal of Mixed Gaussian and Impulse Noise Using Directional Tensor Product Complex Tight Framelets. Journal of Mathematical Imaging and Vision, 2015, 54, 64-77.	1.1	19
36	Tensor Product Complex Tight Framelets with Increasing Directionality. SIAM Journal on Imaging Sciences, 2014, 7, 997-1034.	2.0	51

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37	Symmetric tight framelet filter banks with three high-pass filters. <i>Applied and Computational Harmonic Analysis</i> , 2014, 37, 140-161.	2.5	25
38	Matrix splitting with symmetry and symmetric tight framelet filter banks with two high-pass filters. <i>Applied and Computational Harmonic Analysis</i> , 2013, 35, 200-227.	2.5	30
39	Properties of Discrete Framelet Transforms. <i>Mathematical Modelling of Natural Phenomena</i> , 2013, 8, 18-47.	2.0	47
40	A dual-chain approach for bottom-up construction of wavelet filters with any integer dilation. <i>Applied and Computational Harmonic Analysis</i> , 2012, 33, 204-225.	2.5	14
41	Nonhomogeneous wavelet systems in high dimensions. <i>Applied and Computational Harmonic Analysis</i> , 2012, 32, 169-196.	2.5	88
42	Adaptive Multiresolution Analysis Structures and Shearlet Systems. <i>SIAM Journal on Numerical Analysis</i> , 2011, 49, 1921-1946.	2.5	39
43	Symmetric orthogonal filters and wavelets with linear-phase moments. <i>Journal of Computational and Applied Mathematics</i> , 2011, 236, 482-503.	2.3	28
44	Tight periodic wavelet frames and approximation orders. <i>Applied and Computational Harmonic Analysis</i> , 2011, 31, 228-248.	2.5	20
45	Pairs of frequency-based nonhomogeneous dual wavelet frames in the distribution space. <i>Applied and Computational Harmonic Analysis</i> , 2010, 29, 330-353.	2.5	77
46	Matrix Extension with Symmetry and Its Application to Symmetric Orthonormal Multiwavelets. <i>SIAM Journal on Mathematical Analysis</i> , 2010, 42, 2297-2317.	1.5	30
47	Small Support Spline Riesz Wavelets in Low Dimensions. <i>Journal of Fourier Analysis and Applications</i> , 2010, 17, 535-566.	0.8	2
48	Dual multiwavelet frames with high balancing order and compact fast frame transform. <i>Applied and Computational Harmonic Analysis</i> , 2009, 26, 14-42.	2.5	65
49	Characterization of Sobolev spaces of arbitrary smoothness using nonstationary tight wavelet frames. <i>Israel Journal of Mathematics</i> , 2009, 172, 371-398.	0.5	21
50	Matrix Extension with Symmetry and Applications to Symmetric Orthonormal Complex M-wavelets. <i>Journal of Fourier Analysis and Applications</i> , 2009, 15, 684-705.	0.8	39
51	Generalized interpolating refinable function vectors. <i>Journal of Computational and Applied Mathematics</i> , 2009, 227, 254-270.	2.3	29
52	Compactly Supported Symmetric C^∞ Wavelets with Spectral Approximation Order. <i>SIAM Journal on Mathematical Analysis</i> , 2008, 40, 905-938.	1.5	32
53	Refinable Functions and Cascade Algorithms in Weighted Spaces with Hölder Continuous Masks. <i>SIAM Journal on Mathematical Analysis</i> , 2008, 40, 70-102.	1.5	39
54	Analysis and Construction of Multivariate Interpolating Refinable Function Vectors. <i>Acta Applicandae Mathematicae</i> , 2008, 107, 143-171.	0.7	21

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55	Dual Wavelet Frames and Riesz Bases in Sobolev Spaces. <i>Constructive Approximation</i> , 2008, 29, 369-406.	1.0	83
56	Symmetric orthonormal complex wavelets with masks of arbitrarily high linear-phase moments and sum rules. <i>Advances in Computational Mathematics</i> , 2008, 32, 209-237.	1.5	36
57	Examples of refinable componentwise polynomials. <i>Applied and Computational Harmonic Analysis</i> , 2007, 22, 368-373.	2.5	7
58	Characterization of Riesz bases of wavelets generated from multiresolution analysis. <i>Applied and Computational Harmonic Analysis</i> , 2007, 23, 321-345.	2.5	28
59	Analysis of optimal bivariate symmetric refinable Hermite interpolants. <i>Communications on Pure and Applied Analysis</i> , 2007, 6, 689-718.	0.8	17
60	Wavelets with Short Support. <i>SIAM Journal on Mathematical Analysis</i> , 2006, 38, 530-556.	1.5	57
61	Solutions in Sobolev spaces of vector refinement equations with a general dilation matrix. <i>Advances in Computational Mathematics</i> , 2006, 24, 375-403.	1.5	32
62	Riesz multiwavelet bases. <i>Applied and Computational Harmonic Analysis</i> , 2006, 20, 161-183.	2.5	19
63	Dyadic Hermite interpolation on a square mesh. <i>Computer Aided Geometric Design</i> , 2005, 22, 727-752.	1.6	6
64	Symmetric MRA tight wavelet frames with three generators and high vanishing moments. <i>Applied and Computational Harmonic Analysis</i> , 2005, 18, 67-93.	2.5	65
65	Wavelets from the Loop Scheme. <i>Journal of Fourier Analysis and Applications</i> , 2005, 11, 615-637.	0.8	26
66	Estimate of aliasing error for non-smooth signals prefiltered by quasi-projections into shift-invariant spaces. <i>IEEE Transactions on Signal Processing</i> , 2005, 53, 1927-1933.	4.4	12
67	Splitting a Matrix of Laurent Polynomials with Symmetry and its Application to Symmetric Framelet Filter Banks. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2004, 26, 97-124.	1.4	43
68	Galerkin analysis for Schrödinger equation by wavelets. <i>Journal of Mathematical Physics</i> , 2004, 45, 855-869.	1.2	4
69	Pairs of Dual Wavelet Frames from Any Two Refinable Functions. <i>Constructive Approximation</i> , 2004, 20, 325-352.	1.0	108
70	A hybrid quantization scheme for image compression. <i>Image and Vision Computing</i> , 2004, 22, 203-213.	3.8	7
71	Vector cascade algorithms and refinable function vectors in Sobolev spaces. <i>Journal of Approximation Theory</i> , 2003, 124, 44-88.	0.6	141
72	Compactly supported tight wavelet frames and orthonormal wavelets of exponential decay with a general dilation matrix. <i>Journal of Computational and Applied Mathematics</i> , 2003, 155, 43-67.	2.3	102

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73	Framelets: MRA-based constructions of wavelet frames. Applied and Computational Harmonic Analysis, 2003, 14, 1-46.	2.5	634
74	Design of Hermite Subdivision Schemes Aided by Spectral Radius Optimization. SIAM Journal of Scientific Computing, 2003, 25, 643-656.	2.2	15
75	Computing the Smoothness Exponent of a Symmetric Multivariate Refinable Function. SIAM Journal on Matrix Analysis and Applications, 2003, 24, 693-714.	1.4	90
76	Title is missing!. Advances in Computational Mathematics, 2003, 18, 211-245.	1.5	65
77	Multiwavelets on the Interval. Applied and Computational Harmonic Analysis, 2002, 12, 100-127.	2.5	46
78	The Canonical Dual Frame of a Wavelet Frame. Applied and Computational Harmonic Analysis, 2002, 12, 269-285.	2.5	65
79	Symmetry property and construction of wavelets with a general dilation matrix. Linear Algebra and Its Applications, 2002, 353, 207-225.	0.9	49
80	Projectable multivariate refinable functions and biorthogonal wavelets. Applied and Computational Harmonic Analysis, 2002, 13, 89-102.	2.5	27
81	Approximation Properties and Construction of Hermite Interpolants and Biorthogonal Multiwavelets. Journal of Approximation Theory, 2001, 110, 18-53.	0.6	84
82	Title is missing!. Advances in Computational Mathematics, 2000, 13, 131-165.	1.5	44
83	Analysis and Construction of Optimal Multivariate Biorthogonal Wavelets with Compact Support. SIAM Journal on Mathematical Analysis, 2000, 31, 274-304.	1.5	59
84	Title is missing!. Advances in Computational Mathematics, 1998, 8, 221-247.	1.5	60
85	Multivariate Refinement Equations and Convergence of Subdivision Schemes. SIAM Journal on Mathematical Analysis, 1998, 29, 1177-1199.	1.5	166
86	Optimal Interpolatory Subdivision Schemes in Multidimensional Spaces. SIAM Journal on Numerical Analysis, 1998, 36, 105-124.	2.5	44
87	An improved lattice vector quantization scheme for wavelet compression. IEEE Transactions on Signal Processing, 1998, 46, 239-243.	4.4	30
88	On Dual Wavelet Tight Frames. Applied and Computational Harmonic Analysis, 1997, 4, 380-413.	2.5	180
89	A derivative-orthogonal wavelet multiscale method for elliptic equations with rough diffusion coefficients. Applied Numerical Mathematics, 0, 221, 108-134.	2.1	0
90	A high-order, pressure-robust, and decoupled finite difference method for the Stokes problem. Mathematics and Computers in Simulation, 0, 241, 634-649.	4.7	0

#	ARTICLE	IF	CITATIONS
91	Development of novel wavelet-based method to solve a specific class of fractional optimal control problems by the presence of the Caputo-Katugampola fractional derivative. Applied Numerical Mathematics, 0, 225, 1-19.	2.1	0
92	An efficient finite Difference-Based PML technique for acoustic scattering problems. Journal of Computational Physics, 0, 557, 114840.	3.6	0