Charles K Chui

List of Publications by Year
in descending order

43 papers	2,426 citations	20 h-index
361413		

36 g-index	345221

46 all docs	46 docs citations	46 times ranked	636 citing authors

#	Article	IF	Citations
1	A study of orthonormal multi-wavelets. Applied Numerical Mathematics, 1996, 20, 273-298.	2.1	337
2	On compactly supported spline wavelets and a duality principle. Transactions of the American Mathematical Society, 1992, 330, 903-915.	0.9	304
3	Compactly supported tight and sibling frames with maximum vanishing moments. Applied and Computational Harmonic Analysis, 2002, 13, 224-262.	2.2	229
4	Wavelets on a Bounded Interval. , 1992, , 53-75.		166
5	A cardinal spline approach to wavelets. Proceedings of the American Mathematical Society, 1991, 113, 785-785.	0.8	122
6	Inequalities of Littlewoodâ€"Paley Type for Frames and Wavelets. SIAM Journal on Mathematical Analysis, 1993, 24, 263-277.	1.9	118
7	A general framework of compactly supported splines and wavelets. Journal of Approximation Theory, 1992, 71, 263-304.	0.8	113
8	Nonorthogonal Wavelet Packets. SIAM Journal on Mathematical Analysis, 1993, 24, 712-738.	1.9	69
9	Affine frames, quasi-affine frames, and their duals. Advances in Computational Mathematics, 1998, 8, 1-17.	1.6	62
10	Bessel Sequences and Affine Frames. Applied and Computational Harmonic Analysis, 1993, 1, 29-49.	2.2	52
11	Compactly Supported Tight Affine Frames with Integer Dilations and Maximum Vanishing Moments. Advances in Computational Mathematics, 2003, 18, 159-187.	1.6	46
12	Nonstationary tight wavelet frames, I: Bounded intervals. Applied and Computational Harmonic Analysis, 2004, 17, 141-197.	2.2	43
13	Nonstationary tight wavelet frames, II: unbounded intervals. Applied and Computational Harmonic Analysis, 2005, 18, 25-66.	2.2	37
14	Real-time dynamics acquisition from irregular samples â€" With application to anesthesia evaluation. Analysis and Applications, 2016, 14, 537-590.	2.2	34
15	A unified scheme for adaptive stroke-based rendering. Visual Computer, 2006, 22, 814-824.	3.5	31
16	Affine frame decompositions and shift-invariant spaces. Applied and Computational Harmonic Analysis, 2006, 20, 74-107.	2.2	29
17	Signal analysis via instantaneous frequency estimation of signal components. GEM - International Journal on Geomathematics, 2015, 6, 1-42.	1.6	24
18	A General framework for local interpolation. Numerische Mathematik, 1990, 58, 569-581.	1.9	21

#	ARTICLE	IF	CITATIONS
19	Interactive sketch generation. Visual Computer, 2005, 21, 821-830.	3.5	21
20	Randomized anisotropic transform for nonlinear dimensionality reduction. GEM - International Journal on Geomathematics, 2010, 1, 23-50.	1.6	20
21	Characterization of biorthogonal cosine wavelets. Journal of Fourier Analysis and Applications, 1997, 3, 559-575.	1.0	19
22	Continuous two-scale equations and dyadic wavelets. Advances in Computational Mathematics, 1994, 2, 185-213.	1.6	14
23	Multivariate Balanced Vector-Valued Refinable Functions. International Series of Numerical Mathematics, 2003, , 71-102.	1.1	14
24	Data-driven atomic decomposition via frequency extraction of intrinsic mode functions. GEM - International Journal on Geomathematics, 2016, 7, 117-146.	1.6	13
25	High-Order Orthonormal Scaling Functions and Wavelets Give Poor Time-Frequency Localization. Journal of Fourier Analysis and Applications, 1995, 2, 415-426.	1.0	12
26	Oversampled frame algorithm for real-time implementation and applications. , 1994, , .		11
27	Tight frames of compactly supported multivariate multi-wavelets. Journal of Computational and Applied Mathematics, 2010, 233, 2044-2061.	2.0	11
28	Applications of optimally local interpolation to interpolatory approximants and compactly supported wavelets. Mathematics of Computation, 1996, 65, 99-115.	2.1	10
29	Construction of orthonormal multi-wavelets with additional vanishing moments. Advances in Computational Mathematics, 2006, 24, 239-262.	1.6	8
30	Performance analysis of a new semiorthogonal spline wavelet compression algorithm for tonal medical images. Medical Physics, 2000, 27, 276-288.	3.0	7
31	Dimensionality Reduction of Hyperspectral Imagery Data for FeatureClassification. , 2010, , 1005-1047.		7
32	Direct Signal Separation via Extraction of Local Frequencies With Adaptive Time-Varying Parameters. IEEE Transactions on Signal Processing, 2022, 70, 2321-2333.	5.3	7
33	Sparse representation of approximation to identity. Analysis and Applications, 2022, 20, 815-837.	2.2	4
34	Wavelets â€" With Emphasis on Spline-Wavelets and Applications to Signal Analysis. , 1992, , 19-39.		3
35	Spline Modulation of Sinusoids for Signal Representation. Journal of Fourier Analysis and Applications, 2003, 9, 597-622.	1.0	2
36	Characterizations of tight over-sampled affine frame systems and over-sampling rates. Applied and Computational Harmonic Analysis, 2007, 22, 1-15.	2.2	2

#	Article	IF	Citations
37	On Marcinkiewicz–Zygmund Inequalities and A_p-Weights for L-Shape Arcs. Journal of Geometric Analysis, 2021, 31, 9276-9294.	1.0	2
38	Nonlinear Methods for Dimensionality Reduction. , 2015, , 2799-2851.		2
39	Convexity of parametric Bézier surfaces in terms of Gaussian curvature signatures. Advances in Computational Mathematics, 1994, 2, 437-459.	1.6	1
40	Formulation of Localized Cosine Bases that Preserve Polynomial Modulated Sinusoids. Journal of Fourier Analysis and Applications, 2004, 10, 475.	1.0	1
41	<title>Wavelet approach to detect discontinuities of intensity functions for minefield classification</title>. , 1995, 2496, 531.		0
42	From Bounded Families of Localized Cosines to Bi-Orthogonal Riesz Bases via Shift-Invariance. Analysis in Theory and Applications, 2001, 17, 30-47.	0.0	0
43	Nonlinear Methods for Dimensionality Reduction. , 2015, , 1-46.		0