

Deguang Han

List of Publications by Year in descending order

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102
papers

2,443
citations

236925

25
h-index

233421

45
g-index

108
all docs

108
docs citations

108
times ranked

413
citing authors

#	ARTICLE	IF	CITATIONS
1	Frames, bases and group representations. <i>Memoirs of the American Mathematical Society</i> , 2000, 147, 0-0.	0.9	197
2	On the spectra of a Cantor measure. <i>Advances in Mathematics</i> , 2009, 221, 251-276.	1.1	128
3	Frames Associated with Measurable Spaces. <i>Advances in Computational Mathematics</i> , 2003, 18, 127-147.	1.6	105
4	Optimal dual frames for erasures. <i>Linear Algebra and Its Applications</i> , 2010, 432, 471-482.	0.9	101
5	Optimal dual frames for erasures II. <i>Linear Algebra and Its Applications</i> , 2011, 435, 1464-1472.	0.9	100
6	Optimal Dual Frames for Communication Coding With Probabilistic Erasures. <i>IEEE Transactions on Signal Processing</i> , 2011, 59, 5380-5389.	5.3	92
7	Reconstruction of Signals From Frame Coefficients With Erasures at Unknown Locations. <i>IEEE Transactions on Information Theory</i> , 2014, 60, 4013-4025.	2.4	88
8	Linearly connected sequences and spectrally optimal dual frames for erasures. <i>Journal of Functional Analysis</i> , 2013, 265, 2855-2876.	1.4	75
9	Lattice tiling and the Weyl-Heisenberg frames. <i>Geometric and Functional Analysis</i> , 2001, 11, 742-758.	1.8	66
10	On the Beurling dimension of exponential frames. <i>Advances in Mathematics</i> , 2011, 226, 285-297.	1.1	66
11	Basic properties of wavelets. <i>Journal of Fourier Analysis and Applications</i> , 1998, 4, 575-594.	1.0	58
12	Balian's Low phenomenon for subspace Gabor frames. <i>Journal of Mathematical Physics</i> , 2004, 45, 3362-3378.	1.1	53
13	Divergence of the mock and scrambled Fourier series on fractal measures. <i>Transactions of the American Mathematical Society</i> , 2014, 366, 2191-2208.	0.9	53
14	Subspace Weyl-Heisenberg frames. <i>Journal of Fourier Analysis and Applications</i> , 2001, 7, 419-433.	1.0	51
15	Sampling Expansions in Reproducing Kernel Hilbert and Banach Spaces. <i>Numerical Functional Analysis and Optimization</i> , 2009, 30, 971-987.	1.4	44
16	The Balian's Low theorem for symplectic lattices in higher dimensions. <i>Applied and Computational Harmonic Analysis</i> , 2002, 13, 169-176.	2.2	43
17	The uniqueness of the dual of Weyl-Heisenberg subspace frames. <i>Applied and Computational Harmonic Analysis</i> , 2004, 17, 226-240.	2.2	43
18	Frame wavelets in subspaces of $L^2(\mathbb{R}^d)$. <i>Proceedings of the American Mathematical Society</i> , 2002, 130, 3259-3267.	0.8	42

#	ARTICLE	IF	CITATIONS
19	Frame representations and Parseval duals with applications to Gabor frames. Transactions of the American Mathematical Society, 2008, 360, 3307-3327.	0.9	41
20	Orthogonal exponentials, translations, and Bohr completions. Journal of Functional Analysis, 2009, 257, 2999-3019.	1.4	40
21	On multiresolution analysis (MRA) wavelets in \mathbb{R}^n . Journal of Fourier Analysis and Applications, 2000, 6, 437-447.	1.0	37
22	The existence of subspace wavelet sets. Journal of Computational and Applied Mathematics, 2003, 155, 83-90.	2.0	33
23	Wandering vector multipliers for unitary groups. Transactions of the American Mathematical Society, 2001, 353, 3347-3371.	0.9	28
24	Super-Wavelets and Decomposable Wavelet Frames. Journal of Fourier Analysis and Applications, 2005, 11, 683-696.	1.0	28
25	Phase Retrieval From Multiple-Window Short-Time Fourier Measurements. IEEE Signal Processing Letters, 2017, 24, 372-376.	3.6	27
26	Classification of Finite Group-Frames and Super-Frames. Canadian Mathematical Bulletin, 2007, 50, 85-96.	0.5	23
27	Approximations for Gabor and wavelet frames. Transactions of the American Mathematical Society, 2003, 355, 3329-3342.	0.9	21
28	Riesz bases and their dual modular frames in Hilbert C^* -modules. Journal of Mathematical Analysis and Applications, 2008, 343, 246-256.	1.0	21
29	Probability modelled optimal frames for erasures. Linear Algebra and Its Applications, 2013, 438, 4222-4236.	0.9	21
30	Phase Retrievable Projective Representation Frames for Finite Abelian Groups. Journal of Fourier Analysis and Applications, 2019, 25, 86-100.	1.0	21
31	Constructing super Gabor frames: the rational time-frequency lattice case. Science China Mathematics, 2010, 53, 3179-3186.	1.7	20
32	Lattice tiling and density conditions for subspace Gabor frames. Journal of Functional Analysis, 2013, 265, 1170-1189.	1.4	20
33	Operator valued frames and structured quantum channels. Science China Mathematics, 2011, 54, 2361-2372.	1.7	19
34	Wandering vectors for irrational rotation unitary systems. Transactions of the American Mathematical Society, 1998, 350, 309-320.	0.9	18
35	Dilations and Completions for Gabor Systems. Journal of Fourier Analysis and Applications, 2009, 15, 201-217.	1.0	17
36	When a characteristic function generates a Gabor frame. Applied and Computational Harmonic Analysis, 2008, 24, 290-309.	2.2	16

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37	Dilation of Dual Frame Pairs in Hilbert C^* -Modules. Results in Mathematics, 2013, 63, 241-250.	0.8	16
38	Discrete Gabor frames in $\ell^2(\mathbb{Z}^d)$. Proceedings of the American Mathematical Society, 2013, 141, 3839-3851.	0.8	16
39	Orthonormal dilations of Parseval wavelets. Mathematische Annalen, 2008, 341, 483-515.	1.4	14
40	Frame duality properties for projective unitary representations. Bulletin of the London Mathematical Society, 2008, 40, 685-695.	0.8	14
41	Perturbation of frames and Riesz bases in Hilbert C^* -modules. Linear Algebra and Its Applications, 2009, 431, 746-759.	0.9	14
42	The s -elementary frame wavelets are path connected. Proceedings of the American Mathematical Society, 2004, 132, 2567-2575.	0.8	14
43	Wavelets with Frame Multiresolution Analysis. Journal of Fourier Analysis and Applications, 2003, 9, 39-48.	1.0	13
44	Frame wavelet sets in \mathbb{R}^d . Journal of Computational and Applied Mathematics, 2003, 155, 69-82.	2.0	13
45	On the Orthogonality of Frames and the Density and Connectivity of Wavelet Frames. Acta Applicandae Mathematicae, 2009, 107, 211-222.	1.0	13
46	Bessel sequences of exponentials on fractal measures. Journal of Functional Analysis, 2011, 261, 2529-2539.	1.4	13
47	Orthogonal projection decomposition of matrices and construction of fusion frames. Advances in Computational Mathematics, 2013, 38, 369-381.	1.6	13
48	Tight frame approximation for multi-frames and super-frames. Journal of Approximation Theory, 2004, 129, 78-93.	0.8	12
49	The existence of tight Gabor duals for Gabor frames and subspace Gabor frames. Journal of Functional Analysis, 2009, 256, 129-148.	1.4	12
50	A duality principle for groups. Journal of Functional Analysis, 2009, 257, 1133-1143.	1.4	12
51	Continuous and discrete Fourier frames for fractal measures. Transactions of the American Mathematical Society, 2013, 366, 1213-1235.	0.9	12
52	Additive derivations of nest algebras. Proceedings of the American Mathematical Society, 1993, 119, 1165-1165.	0.8	12
53	On common fundamental domains. Advances in Mathematics, 2013, 239, 109-127.	1.1	11
54	On twisted group frames. Linear Algebra and Its Applications, 2019, 569, 285-310.	0.9	11

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55	Aspects of Gabor Analysis and Operator Algebras. , 2003, , 129-152.		11
56	Spectrum of the products of operators and compact perturbations. Proceedings of the American Mathematical Society, 1994, 120, 755-760.	0.8	11
57	Centralizers and Jordan derivations for CSL subalgebras of von Neumann algebras. Journal of Operator Theory, 2013, 69, 117-133.	0.4	11
58	Recovery of signals from unordered partial frame coefficients. Applied and Computational Harmonic Analysis, 2018, 44, 38-58.	2.2	10
59	On \mathfrak{A} -submodules for reflexive operator algebras. Proceedings of the American Mathematical Society, 1988, 104, 1067-1070.	0.8	10
60	Constrained quadratic correlation filters for target detection. Applied Optics, 2004, 43, 304.	2.1	9
61	Local derivations of nest algebras. Proceedings of the American Mathematical Society, 1995, 123, 3095-3100.	0.8	8
62	Derivations on the algebra of operators in hilbert C^* -modules. Acta Mathematica Sinica, English Series, 2012, 28, 1615-1622.	0.6	8
63	Wavelet frames for (not necessarily reducing) affine subspaces II: The structure of affine subspaces. Journal of Functional Analysis, 2011, 260, 1615-1636.	1.4	7
64	Dilations of operator-valued measures with bounded p -variations and framings on Banach spaces. Journal of Functional Analysis, 2018, 274, 1466-1490.	1.4	7
65	Gabor frames and operator algebras. , 2000, , .		6
66	Functional Gabor frame multipliers. Journal of Geometric Analysis, 2003, 13, 467-478.	1.0	6
67	Sampling expansions for functions having values in a Banach space. Proceedings of the American Mathematical Society, 2005, 133, 3597-3607.	0.8	6
68	Wavelet frames for (not necessarily reducing) affine subspaces. Applied and Computational Harmonic Analysis, 2009, 27, 47-54.	2.2	6
69	Dilations for systems of imprimitivity acting on Banach spaces. Journal of Functional Analysis, 2014, 266, 6914-6937.	1.4	6
70	Adaptive Optimal Dual Frames for Signal Reconstruction With Erasures. IEEE Access, 2016, 4, 7577-7584.	4.2	6
71	Phase-retrievable operator-valued frames and representations of quantum channels. Linear Algebra and Its Applications, 2019, 579, 148-168.	0.9	6
72	Spectrally two-uniform frames for erasures. Operators and Matrices, 2015, , 383-399.	0.3	6

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73	The first cohomology groups of nest algebras on normed spaces. Proceedings of the American Mathematical Society, 1993, 118, 1147-1147.	0.8	5
74	Joint similarities and parameterizations for Naimark complementary frames. Journal of Mathematical Analysis and Applications, 2018, 462, 148-156.	1.0	5
75	Frames, modular functions for shift-invariant subspaces and FMRA wavelet frames. Proceedings of the American Mathematical Society, 2004, 133, 815-825.	0.8	4
76	Parseval frames for ICC groups. Journal of Functional Analysis, 2009, 256, 3071-3090.	1.4	4
77	Matrix Fourier multipliers for Parseval multi-wavelet frames. Applied and Computational Harmonic Analysis, 2013, 35, 407-418.	2.2	4
78	A note on the density theorem for projective unitary representations. Proceedings of the American Mathematical Society, 2016, 145, 1739-1745.	0.8	4
79	Continuous framings for Banach spaces. Journal of Functional Analysis, 2016, 271, 992-1021.	1.4	4
80	Stable recovery of signals from frame coefficients with erasures at unknown locations. Science China Mathematics, 2018, 61, 151-172.	1.7	4
81	Erasure recovery matrices for encoder protection. Applied and Computational Harmonic Analysis, 2020, 48, 766-786.	2.2	4
82	Phases for dyadic orthonormal wavelets. Journal of Mathematical Physics, 2002, 43, 2690.	1.1	3
83	Topological and geometric properties of refinable functions and MRA affine frames. Applied and Computational Harmonic Analysis, 2011, 30, 151-174.	2.2	3
84	Frame Phase-Retrievability and Exact Phase-Retrieval Frames. Journal of Fourier Analysis and Applications, 2019, 25, 3154-3173.	1.0	3
85	Injective continuous frames and quantum detections. Banach Journal of Mathematical Analysis, 2021, 15, 1.	0.8	3
86	FROG-measurement based phase retrieval for analytic signals. Applied and Computational Harmonic Analysis, 2021, 55, 199-222.	2.2	3
87	Interpolation operators associated with sub-frame sets. Proceedings of the American Mathematical Society, 2002, 131, 275-284.	0.8	2
88	Frame vector multipliers for finite group representations. Linear Algebra and Its Applications, 2017, 519, 191-207.	0.9	2
89	Phase Retrieval of Real-valued Functions in Sobolev Space. Acta Mathematica Sinica, English Series, 2018, 34, 1778-1794.	0.6	2
90	Nonuniform sampling and approximation in Sobolev space from perturbation of the framelet system. Science China Mathematics, 2021, 64, 351-372.	1.7	2

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91	Unitary Systems and Bessel Generator Multipliers. , 2011, , 131-150.		2
92	<title>Tight frame approximations for Gabor and wavelet frames</title>. , 2001, , .		1
93	Frames and their associated $H_{\text{kern-2pt}}^p$ -subspaces. Advances in Computational Mathematics, 2011, 34, 185-200.	1.6	1
94	Functional Matrix Multipliers for Parseval Gabor Multi-frame Generators. Acta Applicandae Mathematicae, 2019, 160, 53-65.	1.0	1
95	Structural Properties of Homomorphism Dilation Systems. Chinese Annals of Mathematics Series B, 2020, 41, 585-600.	0.4	1
96	Extensions of operators. Indiana University Mathematics Journal, 2004, 53, 1151-1170.	0.9	1
97	Separating vectors for operators. Proceedings of the American Mathematical Society, 2006, 135, 713-723.	0.8	0
98	Refining Algorithms in Correlation Filter Design for Target Detection. , 2008, , .		0
99	Iterative Approximations of Exponential Bases on Fractal Measures. Numerical Functional Analysis and Optimization, 2012, 33, 928-950.	1.4	0
100	The correlation numerical range of a matrix and Connesâ€™ embedding problem. Linear Algebra and Its Applications, 2012, 436, 3139-3148.	0.9	0
101	Frames and Finite-Rank Integral Representations of Positive Operator-Valued Measures. Acta Applicandae Mathematicae, 2020, 166, 11-27.	1.0	0
102	Gabor single-frame and multi-frame multipliers in any given dimension. Journal of Functional Analysis, 2021, 280, 108960.	1.4	0