

# Deguang Han

## List of Publications by Year in descending order

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102  
papers

2,443  
citations

236925

25  
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233421

45  
g-index

108  
all docs

108  
docs citations

108  
times ranked

413  
citing authors

#	ARTICLE	IF	CITATIONS
1	Injective continuous frames and quantum detections. Banach Journal of Mathematical Analysis, 2021, 15, 1.	0.8	3
2	Nonuniform sampling and approximation in Sobolev space from perturbation of the framelet system. Science China Mathematics, 2021, 64, 351-372.	1.7	2
3	Gabor single-frame and multi-frame multipliers in any given dimension. Journal of Functional Analysis, 2021, 280, 108960.	1.4	0
4	FROG-measurement based phase retrieval for analytic signals. Applied and Computational Harmonic Analysis, 2021, 55, 199-222.	2.2	3
5	Erasure recovery matrices for encoder protection. Applied and Computational Harmonic Analysis, 2020, 48, 766-786.	2.2	4
6	Frames and Finite-Rank Integral Representations of Positive Operator-Valued Measures. Acta Applicandae Mathematicae, 2020, 166, 11-27.	1.0	0
7	Structural Properties of Homomorphism Dilation Systems. Chinese Annals of Mathematics Series B, 2020, 41, 585-600.	0.4	1
8	Phase Retrievable Projective Representation Frames for Finite Abelian Groups. Journal of Fourier Analysis and Applications, 2019, 25, 86-100.	1.0	21
9	Frame Phase-Retrievability and Exact Phase-Retrievable Frames. Journal of Fourier Analysis and Applications, 2019, 25, 3154-3173.	1.0	3
10	On twisted group frames. Linear Algebra and Its Applications, 2019, 569, 285-310.	0.9	11
11	Phase-retrievable operator-valued frames and representations of quantum channels. Linear Algebra and Its Applications, 2019, 579, 148-168.	0.9	6
12	Functional Matrix Multipliers for Parseval Gabor Multi-frame Generators. Acta Applicandae Mathematicae, 2019, 160, 53-65.	1.0	1
13	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
14	Stable recovery of signals from frame coefficients with erasures at unknown locations. Science China Mathematics, 2018, 61, 151-172.	1.7	4
15	Recovery of signals from unordered partial frame coefficients. Applied and Computational Harmonic Analysis, 2018, 44, 38-58.	2.2	10
16	Phase Retrieval of Real-valued Functions in Sobolev Space. Acta Mathematica Sinica, English Series, 2018, 34, 1778-1794.	0.6	2
17	Joint similarities and parameterizations for Naimark complementary frames. Journal of Mathematical Analysis and Applications, 2018, 462, 148-156.	1.0	5
18	Frame vector multipliers for finite group representations. Linear Algebra and Its Applications, 2017, 519, 191-207.	0.9	2

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19	Phase Retrieval From Multiple-Window Short-Time Fourier Measurements. IEEE Signal Processing Letters, 2017, 24, 372-376.	3.6	27
20	A note on the density theorem for projective unitary representations. Proceedings of the American Mathematical Society, 2016, 145, 1739-1745.	0.8	4
21	Adaptive Optimal Dual Frames for Signal Reconstruction With Erasures. IEEE Access, 2016, 4, 7577-7584.	4.2	6
22	Continuous framings for Banach spaces. Journal of Functional Analysis, 2016, 271, 992-1021.	1.4	4
23	Spectrally two-uniform frames for erasures. Operators and Matrices, 2015, , 383-399.	0.3	6
24	Divergence of the mock and scrambled Fourier series on fractal measures. Transactions of the American Mathematical Society, 2014, 366, 2191-2208.	0.9	53
25	Dilations for systems of imprimitivity acting on Banach spaces. Journal of Functional Analysis, 2014, 266, 6914-6937.	1.4	6
26	Reconstruction of Signals From Frame Coefficients With Erasures at Unknown Locations. IEEE Transactions on Information Theory, 2014, 60, 4013-4025.	2.4	88
27	Linearly connected sequences and spectrally optimal dual frames for erasures. Journal of Functional Analysis, 2013, 265, 2855-2876.	1.4	75
28	Matrix Fourier multipliers for Parseval multi-wavelet frames. Applied and Computational Harmonic Analysis, 2013, 35, 407-418.	2.2	4
29	On common fundamental domains. Advances in Mathematics, 2013, 239, 109-127.	1.1	11
30	Orthogonal projection decomposition of matrices and construction of fusion frames. Advances in Computational Mathematics, 2013, 38, 369-381.	1.6	13
31	Probability modelled optimal frames for erasures. Linear Algebra and Its Applications, 2013, 438, 4222-4236.	0.9	21
32	Lattice tiling and density conditions for subspace Gabor frames. Journal of Functional Analysis, 2013, 265, 1170-1189.	1.4	20
33	Dilation of Dual Frame Pairs in Hilbert $C^*$ -Modules. Results in Mathematics, 2013, 63, 241-250.	0.8	16
34	Discrete Gabor frames in $\ell^2(\mathbb{Z}^d)$ . Proceedings of the American Mathematical Society, 2013, 141, 3839-3851.	0.8	16
35	Continuous and discrete Fourier frames for fractal measures. Transactions of the American Mathematical Society, 2013, 366, 1213-1235.	0.9	12
36	Centralizers and Jordan derivations for CSL subalgebras of von Neumann algebras. Journal of Operator Theory, 2013, 69, 117-133.	0.4	11

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37	Iterative Approximations of Exponential Bases on Fractal Measures. Numerical Functional Analysis and Optimization, 2012, 33, 928-950.	1.4	0
38	Derivations on the algebra of operators in hilbert $C^*$ -modules. Acta Mathematica Sinica, English Series, 2012, 28, 1615-1622.	0.6	8
39	The correlation numerical range of a matrix and Connes's embedding problem. Linear Algebra and Its Applications, 2012, 436, 3139-3148.	0.9	0
40	Optimal Dual Frames for Communication Coding With Probabilistic Erasures. IEEE Transactions on Signal Processing, 2011, 59, 5380-5389.	5.3	92
41	Bessel sequences of exponentials on fractal measures. Journal of Functional Analysis, 2011, 261, 2529-2539.	1.4	13
42	Frames and their associated $H_{\{kern-2pt\}F}^{\{p\}}$ -subspaces. Advances in Computational Mathematics, 2011, 34, 185-200.	1.6	1
43	Topological and geometric properties of refinable functions and MRA affine frames. Applied and Computational Harmonic Analysis, 2011, 30, 151-174.	2.2	3
44	Operator valued frames and structured quantum channels. Science China Mathematics, 2011, 54, 2361-2372.	1.7	19
45	On the Beurling dimension of exponential frames. Advances in Mathematics, 2011, 226, 285-297.	1.1	66
46	Optimal dual frames for erasures II. Linear Algebra and Its Applications, 2011, 435, 1464-1472.	0.9	100
47	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
48	Unitary Systems and Bessel Generator Multipliers. , 2011, , 131-150.		2
49	Constructing super Gabor frames: the rational time-frequency lattice case. Science China Mathematics, 2010, 53, 3179-3186.	1.7	20
50	Optimal dual frames for erasures. Linear Algebra and Its Applications, 2010, 432, 471-482.	0.9	101
51	On the Orthogonality of Frames and the Density and Connectivity of Wavelet Frames. Acta Applicandae Mathematicae, 2009, 107, 211-222.	1.0	13
52	Dilations and Completions for Gabor Systems. Journal of Fourier Analysis and Applications, 2009, 15, 201-217.	1.0	17
53	The existence of tight Gabor duals for Gabor frames and subspace Gabor frames. Journal of Functional Analysis, 2009, 256, 129-148.	1.4	12
54	Parseval frames for ICC groups. Journal of Functional Analysis, 2009, 256, 3071-3090.	1.4	4

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55	A duality principle for groups. <i>Journal of Functional Analysis</i> , 2009, 257, 1133-1143.	1.4	12
56	Orthogonal exponentials, translations, and Bohr completions. <i>Journal of Functional Analysis</i> , 2009, 257, 2999-3019.	1.4	40
57	Perturbation of frames and Riesz bases in Hilbert $C^*$ -modules. <i>Linear Algebra and Its Applications</i> , 2009, 431, 746-759.	0.9	14
58	Wavelet frames for (not necessarily reducing) affine subspaces. <i>Applied and Computational Harmonic Analysis</i> , 2009, 27, 47-54.	2.2	6
59	On the spectra of a Cantor measure. <i>Advances in Mathematics</i> , 2009, 221, 251-276.	1.1	128
60	Sampling Expansions in Reproducing Kernel Hilbert and Banach Spaces. <i>Numerical Functional Analysis and Optimization</i> , 2009, 30, 971-987.	1.4	44
61	Orthonormal dilations of Parseval wavelets. <i>Mathematische Annalen</i> , 2008, 341, 483-515.	1.4	14
62	Riesz bases and their dual modular frames in Hilbert $C^*$ -modules. <i>Journal of Mathematical Analysis and Applications</i> , 2008, 343, 246-256.	1.0	21
63	When a characteristic function generates a Gabor frame. <i>Applied and Computational Harmonic Analysis</i> , 2008, 24, 290-309.	2.2	16
64	Frame duality properties for projective unitary representations. <i>Bulletin of the London Mathematical Society</i> , 2008, 40, 685-695.	0.8	14
65	Refining Algorithms in Correlation Filter Design for Target Detection. , 2008, , .		0
66	Frame representations and Parseval duals with applications to Gabor frames. <i>Transactions of the American Mathematical Society</i> , 2008, 360, 3307-3327.	0.9	41
67	Classification of Finite Group-Frames and Super-Frames. <i>Canadian Mathematical Bulletin</i> , 2007, 50, 85-96.	0.5	23
68	Separating vectors for operators. <i>Proceedings of the American Mathematical Society</i> , 2006, 135, 713-723.	0.8	0
69	Sampling expansions for functions having values in a Banach space. <i>Proceedings of the American Mathematical Society</i> , 2005, 133, 3597-3607.	0.8	6
70	Super-Wavelets and Decomposable Wavelet Frames. <i>Journal of Fourier Analysis and Applications</i> , 2005, 11, 683-696.	1.0	28
71	Low phenomenon for subspace Gabor frames. <i>Journal of Mathematical Physics</i> , 2004, 45, 3362-3378.	1.1	53
72	Frames, modular functions for shift-invariant subspaces and FMRA wavelet frames. <i>Proceedings of the American Mathematical Society</i> , 2004, 133, 815-825.	0.8	4

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73	The uniqueness of the dual of Weylâ€™Heisenberg subspace frames. Applied and Computational Harmonic Analysis, 2004, 17, 226-240.	2.2	43
74	Tight frame approximation for multi-frames and super-frames. Journal of Approximation Theory, 2004, 129, 78-93.	0.8	12
75	Constrained quadratic correlation filters for target detection. Applied Optics, 2004, 43, 304.	2.1	9
76	The s-elementary frame wavelets are path connected. Proceedings of the American Mathematical Society, 2004, 132, 2567-2575.	0.8	14
77	Extensions of operators. Indiana University Mathematics Journal, 2004, 53, 1151-1170.	0.9	1
78	Frames Associated with Measurable Spaces. Advances in Computational Mathematics, 2003, 18, 127-147.	1.6	105
79	Functional Gabor frame multipliers. Journal of Geometric Analysis, 2003, 13, 467-478.	1.0	6
80	Wavelets with Frame Multiresolution Analysis. Journal of Fourier Analysis and Applications, 2003, 9, 39-48.	1.0	13
81	Frame wavelet sets in $\mathbb{R}^d$ . Journal of Computational and Applied Mathematics, 2003, 155, 69-82.	2.0	13
82	The existence of subspace wavelet sets. Journal of Computational and Applied Mathematics, 2003, 155, 83-90.	2.0	33
83	Approximations for Gabor and wavelet frames. Transactions of the American Mathematical Society, 2003, 355, 3329-3342.	0.9	21
84	Aspects of Gabor Analysis and Operator Algebras. , 2003, , 129-152.		11
85	Phases for dyadic orthonormal wavelets. Journal of Mathematical Physics, 2002, 43, 2690.	1.1	3
86	Frame wavelets in subspaces of $L^2(\mathbb{R}^d)$ . Proceedings of the American Mathematical Society, 2002, 130, 3259-3267.	0.8	42
87	Interpolation operators associated with sub-frame sets. Proceedings of the American Mathematical Society, 2002, 131, 275-284.	0.8	2
88	The Balianâ€™Low theorem for symplectic lattices in higher dimensions. Applied and Computational Harmonic Analysis, 2002, 13, 169-176.	2.2	43
89	Wandering vector multipliers for unitary groups. Transactions of the American Mathematical Society, 2001, 353, 3347-3371.	0.9	28
90	<title>Tight frame approximations for Gabor and wavelet frames</title>. , 2001, , .		1

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91	Subspace Weyl-Heisenberg frames. <i>Journal of Fourier Analysis and Applications</i> , 2001, 7, 419-433.	1.0	51
92	Lattice tiling and the Weyl-Heisenberg frames. <i>Geometric and Functional Analysis</i> , 2001, 11, 742-758.	1.8	66
93	Gabor frames and operator algebras. , 2000, , .		6
94	On multiresolution analysis (MRA) wavelets in $\hat{\mathbb{R}}^n$ . <i>Journal of Fourier Analysis and Applications</i> , 2000, 6, 437-447.	1.0	37
95	Frames, bases and group representations. <i>Memoirs of the American Mathematical Society</i> , 2000, 147, 0-0.	0.9	197
96	Basic properties of wavelets. <i>Journal of Fourier Analysis and Applications</i> , 1998, 4, 575-594.	1.0	58
97	Wandering vectors for irrational rotation unitary systems. <i>Transactions of the American Mathematical Society</i> , 1998, 350, 309-320.	0.9	18
98	Local derivations of nest algebras. <i>Proceedings of the American Mathematical Society</i> , 1995, 123, 3095-3100.	0.8	8
99	Spectrum of the products of operators and compact perturbations. <i>Proceedings of the American Mathematical Society</i> , 1994, 120, 755-760.	0.8	11
100	The first cohomology groups of nest algebras on normed spaces. <i>Proceedings of the American Mathematical Society</i> , 1993, 118, 1147-1147.	0.8	5
101	Additive derivations of nest algebras. <i>Proceedings of the American Mathematical Society</i> , 1993, 119, 1165-1165.	0.8	12
102	On $\mathcal{K}$ -submodules for reflexive operator algebras. <i>Proceedings of the American Mathematical Society</i> , 1988, 104, 1067-1070.	0.8	10