

Peter G Casazza

List of Publications by Year in descending order

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44
papers

1,545
citations

516710

16
h-index

315739

38
g-index

47
all docs

47
docs citations

47
times ranked

476
citing authors

#	ARTICLE	IF	CITATIONS
1	Fusion frames and distributed processing. <i>Applied and Computational Harmonic Analysis</i> , 2008, 25, 114-132.	2.2	278
2	Painless Reconstruction from Magnitudes of Frame Coefficients. <i>Journal of Fourier Analysis and Applications</i> , 2009, 15, 488-501.	1.0	137
3	Density, Overcompleteness, and Localization of Frames. I. Theory. <i>Journal of Fourier Analysis and Applications</i> , 2006, 12, 105-143.	1.0	111
4	The Kadison-Singer Problem in mathematics and engineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 2032-2039.	7.1	82
5	Deficits and Excesses of Frames. <i>Advances in Computational Mathematics</i> , 2003, 18, 93-116.	1.6	72
6	Constructing tight fusion frames. <i>Applied and Computational Harmonic Analysis</i> , 2011, 30, 175-187.	2.2	71
7	Density, Overcompleteness, and Localization of Frames. II. Gabor Systems. <i>Journal of Fourier Analysis and Applications</i> , 2006, 12, 307-344.	1.0	61
8	Duality Principles in Frame Theory. <i>Journal of Fourier Analysis and Applications</i> , 2004, 10, 383-408.	1.0	59
9	Optimally Sparse Frames. <i>IEEE Transactions on Information Theory</i> , 2011, 57, 7279-7287.	2.4	36
10	Sparse fusion frames: existence and construction. <i>Advances in Computational Mathematics</i> , 2011, 35, 1-31.	1.6	36
11	Introduction to Finite Frame Theory. , 2013, , 1-53.		34
12	Minimizing Fusion Frame Potential. <i>Acta Applicandae Mathematicae</i> , 2009, 107, 7-24.	1.0	33
13	A generalization of Gram-Schmidt orthogonalization generating all Parseval frames. <i>Advances in Computational Mathematics</i> , 2007, 27, 65-78.	1.6	24
14	Frames for linear reconstruction without phase. , 2008, , .		20
15	Spectral Tetris Fusion Frame Constructions. <i>Journal of Fourier Analysis and Applications</i> , 2012, 18, 828-851.	1.0	20
16	The Reconstruction Property in Banach Spaces and a Perturbation Theorem. <i>Canadian Mathematical Bulletin</i> , 2008, 51, 348-358.	0.5	18
17	Every frame is a sum of three (but not two) orthonormal bases and other frame representations. <i>Journal of Fourier Analysis and Applications</i> , 1998, 4, 727-732.	1.0	17
18	Non-orthogonal Fusion Frames and the Sparsity of Fusion Frame Operators. <i>Journal of Fourier Analysis and Applications</i> , 2012, 18, 287-308.	1.0	17

#	ARTICLE	IF	CITATIONS
19	Every Hilbert space frame has a Naimark complement. <i>Journal of Mathematical Analysis and Applications</i> , 2013, 406, 111-119.	1.0	17
20	Real equiangular frames. , 2008, , .		15
21	Gabor Frames over Irregular Lattices. <i>Advances in Computational Mathematics</i> , 2003, 18, 329-344.	1.6	14
22	Norm Retrieval and Phase Retrieval by Projections. <i>Axioms</i> , 2017, 6, 6.	1.9	12
23	Generalizing the Paley-Wiener perturbation theory for Banach spaces. <i>Proceedings of the American Mathematical Society</i> , 1999, 127, 519-527.	0.8	12
24	Weighted fusion frame construction via spectral tetris. <i>Advances in Computational Mathematics</i> , 2014, 40, 335-351.	1.6	9
25	Phase retrieval versus phaseless reconstruction. <i>Journal of Mathematical Analysis and Applications</i> , 2016, 436, 131-137.	1.0	9
26	Necessary and sufficient conditions to perform Spectral Tetris. <i>Linear Algebra and Its Applications</i> , 2013, 438, 2239-2255.	0.9	8
27	Characterizing Hilbert space frames with the subframe property. <i>Illinois Journal of Mathematics</i> , 1997, 41, .	0.1	8
28	Toward the classification of biangular harmonic frames. <i>Applied and Computational Harmonic Analysis</i> , 2019, 46, 544-568.	2.2	7
29	The Solution to the Frame Quantum Detection Problem. <i>Journal of Fourier Analysis and Applications</i> , 2019, 25, 2268-2323.	1.0	6
30	Local theory of frames and schauder bases for Hilbert space. <i>Illinois Journal of Mathematics</i> , 1999, 43, .	0.1	6
31	Frame scalings: A condition number approach. <i>Linear Algebra and Its Applications</i> , 2017, 523, 152-168.	0.9	4
32	Constructing fusion frames with desired parameters. <i>Proceedings of SPIE</i> , 2009, , .	0.8	3
33	Regular Two-Distance Sets. <i>Journal of Fourier Analysis and Applications</i> , 2020, 26, 1.	1.0	3
34	Fusion Frames and the Restricted Isometry Property. <i>Numerical Functional Analysis and Optimization</i> , 2012, 33, 770-790.	1.4	2
35	Unconditional convergence constants of Hilbert space frame expansions. , 2015, , .		2
36	Riesz outer product Hilbert space frames: Quantitative bounds, topological properties, and full geometric characterization. <i>Journal of Mathematical Analysis and Applications</i> , 2016, 441, 475-498.	1.0	2

#	ARTICLE	IF	CITATIONS
37	The Fundamentals of Spectral Tetris Frame Constructions. Applied and Numerical Harmonic Analysis, 2015, , 217-266.	0.3	2
38	On Grassmannian Frames with Spectral Constraints. Sampling Theory in Signal and Information Processing, 2018, 17, 17-28.	0.2	2
39	Constructions and existence of tight fusion frames. Proceedings of SPIE, 2009, , .	0.8	1
40	Upper and lower redundancy of finite frames. , 2010, , .		1
41	The Norms of Projections Onto Ideals in the Disk Algebra. Bulletin of the London Mathematical Society, 1992, 24, 552-558.	0.8	0
42	Fusion Frames and Unbiased Basic Sequences. , 2013, , 19-34.		0
43	Real phase retrieval by orthogonal complements and hyperplanes. , 2017, , .		0
44	Optimal Parseval frames: total coherence and total volume. Linear and Multilinear Algebra, 2023, 71, 2067-2092.	1.0	0