

# 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	Optimal Parseval frames: total coherence and total volume. <i>Linear and Multilinear Algebra</i> , 2023, 71, 2067-2092.	1.0	0
2	Regular Two-Distance Sets. <i>Journal of Fourier Analysis and Applications</i> , 2020, 26, 1.	1.0	3
3	The Solution to the Frame Quantum Detection Problem. <i>Journal of Fourier Analysis and Applications</i> , 2019, 25, 2268-2323.	1.0	6
4	Toward the classification of biangular harmonic frames. <i>Applied and Computational Harmonic Analysis</i> , 2019, 46, 544-568.	2.2	7
5	On Grassmannian Frames with Spectral Constraints. <i>Sampling Theory in Signal and Information Processing</i> , 2018, 17, 17-28.	0.2	2
6	Frame scalings: A condition number approach. <i>Linear Algebra and Its Applications</i> , 2017, 523, 152-168.	0.9	4
7	Norm Retrieval and Phase Retrieval by Projections. <i>Axioms</i> , 2017, 6, 6.	1.9	12
8	Real phase retrieval by orthogonal complements and hyperplanes. , 2017, , .		0
9	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
10	Phase retrieval versus phaseless reconstruction. <i>Journal of Mathematical Analysis and Applications</i> , 2016, 436, 131-137.	1.0	9
11	Unconditional convergence constants of Hilbert space frame expansions. , 2015, , .		2
12	The Fundamentals of Spectral Tetris Frame Constructions. <i>Applied and Numerical Harmonic Analysis</i> , 2015, , 217-266.	0.3	2
13	Weighted fusion frame construction via spectral tetris. <i>Advances in Computational Mathematics</i> , 2014, 40, 335-351.	1.6	9
14	Every Hilbert space frame has a Naimark complement. <i>Journal of Mathematical Analysis and Applications</i> , 2013, 406, 111-119.	1.0	17
15	Fusion Frames and Unbiased Basic Sequences. , 2013, , 19-34.		0
16	Necessary and sufficient conditions to perform Spectral Tetris. <i>Linear Algebra and Its Applications</i> , 2013, 438, 2239-2255.	0.9	8
17	Introduction to Finite Frame Theory. , 2013, , 1-53.		34
18	Fusion Frames and the Restricted Isometry Property. <i>Numerical Functional Analysis and Optimization</i> , 2012, 33, 770-790.	1.4	2

#	ARTICLE	IF	CITATIONS
19	Spectral Tetris Fusion Frame Constructions. <i>Journal of Fourier Analysis and Applications</i> , 2012, 18, 828-851.	1.0	20
20	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
21	Optimally Sparse Frames. <i>IEEE Transactions on Information Theory</i> , 2011, 57, 7279-7287.	2.4	36
22	Sparse fusion frames: existence and construction. <i>Advances in Computational Mathematics</i> , 2011, 35, 1-31.	1.6	36
23	Constructing tight fusion frames. <i>Applied and Computational Harmonic Analysis</i> , 2011, 30, 175-187.	2.2	71
24	Upper and lower redundancy of finite frames. , 2010, , .		1
25	Constructions and existence of tight fusion frames. <i>Proceedings of SPIE</i> , 2009, , .	0.8	1
26	Constructing fusion frames with desired parameters. <i>Proceedings of SPIE</i> , 2009, , .	0.8	3
27	Minimizing Fusion Frame Potential. <i>Acta Applicandae Mathematicae</i> , 2009, 107, 7-24.	1.0	33
28	Painless Reconstruction from Magnitudes of Frame Coefficients. <i>Journal of Fourier Analysis and Applications</i> , 2009, 15, 488-501.	1.0	137
29	Fusion frames and distributed processing. <i>Applied and Computational Harmonic Analysis</i> , 2008, 25, 114-132.	2.2	278
30	Real equiangular frames. , 2008, , .		15
31	Frames for linear reconstruction without phase. , 2008, , .		20
32	The Reconstruction Property in Banach Spaces and a Perturbation Theorem. <i>Canadian Mathematical Bulletin</i> , 2008, 51, 348-358.	0.5	18
33	A generalization of Gram-Schmidt orthogonalization generating all Parseval frames. <i>Advances in Computational Mathematics</i> , 2007, 27, 65-78.	1.6	24
34	Density, Overcompleteness, and Localization of Frames. II. Gabor Systems. <i>Journal of Fourier Analysis and Applications</i> , 2006, 12, 307-344.	1.0	61
35	Density, Overcompleteness, and Localization of Frames. I. Theory. <i>Journal of Fourier Analysis and Applications</i> , 2006, 12, 105-143.	1.0	111
36	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

#	ARTICLE	IF	CITATIONS
37	Duality Principles in Frame Theory. <i>Journal of Fourier Analysis and Applications</i> , 2004, 10, 383-408.	1.0	59
38	Gabor Frames over Irregular Lattices. <i>Advances in Computational Mathematics</i> , 2003, 18, 329-344.	1.6	14
39	Deficits and Excesses of Frames. <i>Advances in Computational Mathematics</i> , 2003, 18, 93-116.	1.6	72
40	Generalizing the Paley-Wiener perturbation theory for Banach spaces. <i>Proceedings of the American Mathematical Society</i> , 1999, 127, 519-527.	0.8	12
41	Local theory of frames and schauder bases for Hilbert space. <i>Illinois Journal of Mathematics</i> , 1999, 43, .	0.1	6
42	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
43	Characterizing Hilbert space frames with the subframe property. <i>Illinois Journal of Mathematics</i> , 1997, 41, .	0.1	8
44	The Norms of Projections Onto Ideals in the Disk Algebra. <i>Bulletin of the London Mathematical Society</i> , 1992, 24, 552-558.	0.8	0