

# Matthew Fickus

## List of Publications by Year in descending order

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47  
papers

1,275  
citations

471509

17  
h-index

361022

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g-index

47  
all docs

47  
docs citations

47  
times ranked

511  
citing authors

#	ARTICLE	IF	CITATIONS
1	Finite Normalized Tight Frames. <i>Advances in Computational Mathematics</i> , 2003, 18, 357-385.	1.6	283
2	Steiner equiangular tight frames. <i>Linear Algebra and Its Applications</i> , 2012, 436, 1014-1027.	0.9	159
3	Phase Retrieval with Polarization. <i>SIAM Journal on Imaging Sciences</i> , 2014, 7, 35-66.	2.2	93
4	The Road to Deterministic Matrices with the Restricted Isometry Property. <i>Journal of Fourier Analysis and Applications</i> , 2013, 19, 1123-1149.	1.0	90
5	Constructing tight fusion frames. <i>Applied and Computational Harmonic Analysis</i> , 2011, 30, 175-187.	2.2	71
6	Equiangular Tight Frames From Hyperovals. <i>IEEE Transactions on Information Theory</i> , 2016, 62, 5225-5236.	2.4	52
7	Phase retrieval from very few measurements. <i>Linear Algebra and Its Applications</i> , 2014, 449, 475-499.	0.9	42
8	Kirkman Equiangular Tight Frames and Codes. <i>IEEE Transactions on Information Theory</i> , 2014, 60, 170-181.	2.4	40
9	Auto-tuning unit norm frames. <i>Applied and Computational Harmonic Analysis</i> , 2012, 32, 1-15.	2.2	36
10	Constructing finite frames of a given spectrum and set of lengths. <i>Applied and Computational Harmonic Analysis</i> , 2013, 35, 52-73.	2.2	36
11	Minimizing Fusion Frame Potential. <i>Acta Applicandae Mathematicae</i> , 2009, 107, 7-24.	1.0	33
12	Tremain equiangular tight frames. <i>Journal of Combinatorial Theory - Series A</i> , 2018, 153, 54-66.	0.8	28
13	Steiner equiangular tight frames redux. , 2015, , .		27
14	Fingerprinting With Equiangular Tight Frames. <i>IEEE Transactions on Information Theory</i> , 2013, 59, 1855-1865.	2.4	25
15	Numerically erasure-robust frames. <i>Linear Algebra and Its Applications</i> , 2012, 437, 1394-1407.	0.9	23
16	Convolutional frames and the frame potential. <i>Applied and Computational Harmonic Analysis</i> , 2005, 19, 77-91.	2.2	22
17	Spectral Tetris Fusion Frame Constructions. <i>Journal of Fourier Analysis and Applications</i> , 2012, 18, 828-851.	1.0	20
18	Equiangular tight frames that contain regular simplices. <i>Linear Algebra and Its Applications</i> , 2018, 555, 98-138.	0.9	18

#	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	Constructing all self-adjoint matrices with prescribed spectrum and diagonal. <i>Advances in Computational Mathematics</i> , 2013, 39, 585-609.	1.6	15
21	Equiangular tight frames with centroidal symmetry. <i>Applied and Computational Harmonic Analysis</i> , 2018, 44, 476-496.	2.2	13
22	Packings in Real Projective Spaces. <i>SIAM Journal on Applied Algebra and Geometry</i> , 2018, 2, 377-409.	1.4	12
23	Maximally Equiangular Frames and Gauss Sums. <i>Journal of Fourier Analysis and Applications</i> , 2009, 15, 413-427.	1.0	11
24	Polyphase equiangular tight frames and abelian generalized quadrangles. <i>Applied and Computational Harmonic Analysis</i> , 2019, 47, 628-661.	2.2	11
25	Active mask segmentation for the cell-volume computation and Golgi-body segmentation of hela cell images. , 2008, , .		10
26	Frame completions for optimally robust reconstruction. <i>Proceedings of SPIE</i> , 2011, , .	0.8	10
27	Fast computation of spectral centroids. <i>Advances in Computational Mathematics</i> , 2011, 35, 83-97.	1.6	10
28	Local histograms and image occlusion models. <i>Applied and Computational Harmonic Analysis</i> , 2013, 34, 469-487.	2.2	8
29	Derandomizing Restricted Isometries via the Legendre Symbol. <i>Constructive Approximation</i> , 2016, 43, 409-424.	3.0	7
30	A generalized Schurâ€™Horn theorem and optimal frame completions. <i>Applied and Computational Harmonic Analysis</i> , 2016, 40, 505-528.	2.2	7
31	Mutually Unbiased Equiangular Tight Frames. <i>IEEE Transactions on Information Theory</i> , 2021, 67, 1656-1667.	2.4	7
32	Compressive Hyperspectral Imaging for Stellar Spectroscopy. <i>IEEE Signal Processing Letters</i> , 2015, 22, 1829-1833.	3.6	6
33	Harmonic equiangular tight frames comprised of regular simplices. <i>Linear Algebra and Its Applications</i> , 2020, 586, 130-169.	0.9	6
34	Hadamard equiangular tight frames. <i>Applied and Computational Harmonic Analysis</i> , 2021, 50, 281-302.	2.2	5
35	Isotropic moments over integer lattices. <i>Applied and Computational Harmonic Analysis</i> , 2009, 26, 77-96.	2.2	4
36	Projection retrieval: Theory and algorithms. , 2015, , .		4

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37	Group-theoretic constructions of erasure-robust frames. <i>Linear Algebra and Its Applications</i> , 2015, 479, 131-154.	0.9	4
38	Equiangular tight frames from group divisible designs. <i>Designs, Codes, and Cryptography</i> , 2019, 87, 1673-1697.	1.6	4
39	Guaranteeing convergence of iterative skewed voting algorithms for image segmentation. <i>Applied and Computational Harmonic Analysis</i> , 2012, 33, 300-308.	2.2	2
40	A vocabulary for the identification and delineation of teratoma tissue components in hematoxylin and eosin-stained samples. <i>Journal of Pathology Informatics</i> , 2014, 5, 19.	1.7	2
41	Determining angular frequency from images of rotating objects via a generalized fast Fourier transform. <i>Advances in Computational Mathematics</i> , 2014, 40, 27-47.	1.6	1
42	Grassmannian codes from paired difference sets. <i>Designs, Codes, and Cryptography</i> , 2021, 89, 2553.	1.6	1
43	Classifying compact convex sets with frames. <i>Applied and Computational Harmonic Analysis</i> , 2009, 27, 73-86.	2.2	0
44	Frame domain signal processing: Framework and applications. , 2010, , .		0
45	Optimal Frames and Newton's Method. <i>Numerical Functional Analysis and Optimization</i> , 2012, 33, 971-988.	1.4	0
46	Equi-isoclinic subspaces from difference sets. , 2019, , .		0
47	A vocabulary for the identification and delineation of teratoma tissue components in hematoxylin and eosin-stained samples. <i>Journal of Pathology Informatics</i> , 2014, 5, 19.	0.6	0