Dustin G Mixon

List of Publications by Year
in descending order

50 papers	1,094 citations	567281 15 h-index	414414 32 g-index
51 all docs	51 docs citations	51 times ranked	662 citing authors

#	Article	IF	Citations
1	Steiner equiangular tight frames. Linear Algebra and Its Applications, 2012, 436, 1014-1027.	0.9	159
2	Certifying the Restricted Isometry Property is Hard. IEEE Transactions on Information Theory, 2013, 59, 3448-3450.	2.4	147
3	Full Spark Frames. Journal of Fourier Analysis and Applications, 2012, 18, 1167-1194.	1.0	95
4	The Road to Deterministic Matrices with the Restricted Isometry Property. Journal of Fourier Analysis and Applications, 2013, 19, 1123-1149.	1.0	90
5	Sparse Phase Retrieval from Short-Time Fourier Measurements. IEEE Signal Processing Letters, 2015, 22, 638-642.	3.6	79
6	Equiangular Tight Frames From Hyperovals. IEEE Transactions on Information Theory, 2016, 62, 5225-5236.	2.4	52
7	Phase retrieval from power spectra of masked signals. Information and Inference, 2014, 3, 83-102.	1.6	43
8	Optimal marker gene selection for cell type discrimination in single cell analyses. Nature Communications, 2021, 12, 1186.	12.8	43
9	Kirkman Equiangular Tight Frames and Codes. IEEE Transactions on Information Theory, 2014, 60, 170-181.	2.4	40
10	Tremain equiangular tight frames. Journal of Combinatorial Theory - Series A, 2018, 153, 54-66.	0.8	28
11	Steiner equiangular tight frames redux. , 2015, , .		27
12	Recent Advances in Phase Retrieval [Lecture Notes]. IEEE Signal Processing Magazine, 2016, 33, 158-162.	5.6	27
13	Clustering subgaussian mixtures by semidefinite programming. Information and Inference, 2017, 6, 389-415.	1.6	26
14	Fingerprinting With Equiangular Tight Frames. IEEE Transactions on Information Theory, 2013, 59, 1855-1865.	2.4	25
15	Probably certifiably correct k-means clustering. Mathematical Programming, 2017, 165, 605-642.	2.4	18
16	Equiangular tight frames that contain regular simplices. Linear Algebra and Its Applications, 2018, 555, 98-138.	0.9	18
17	Constructing all self-adjoint matrices with prescribed spectrum and diagonal. Advances in Computational Mathematics, 2013, 39, 585-609.	1.6	15
18	Equiangular tight frames with centroidal symmetry. Applied and Computational Harmonic Analysis, 2018, 44, 476-496.	2.2	13

#	Article	IF	Citations
19	Packings in Real Projective Spaces. SIAM Journal on Applied Algebra and Geometry, 2018, 2, 377-409.	1.4	12
20	Polyphase equiangular tight frames and abelian generalized quadrangles. Applied and Computational Harmonic Analysis, 2019, 47, 628-661.	2.2	11
21	A Conditional Construction of Restricted Isometries. International Mathematics Research Notices, 2017, 2017, 372-381.	1.0	10
22	OPTIMAL LINE PACKINGS FROM FINITE GROUPÂACTIONS. Forum of Mathematics, Sigma, 2020, 8, .	0.7	9
23	Frame coherence and sparse signal processing. , 2011, , .		8
24	Discrete Uncertainty Principles and Sparse Signal Processing. Journal of Fourier Analysis and Applications, 2018, 24, 935-956.	1.0	8
25	Matching Component Analysis for Transfer Learning. SIAM Journal on Mathematics of Data Science, 2020, 2, 309-334.	1.8	8
26	Derandomizing Restricted Isometries via the Legendre Symbol. Constructive Approximation, 2016, 43, 409-424.	3.0	7
27	Manifold optimization for k-means clustering. , 2017, , .		7
28	Compressive Hyperspectral Imaging for Stellar Spectroscopy. IEEE Signal Processing Letters, 2015, 22, 1829-1833.	3.6	6
29	An Impossibility Theorem for Gerrymandering. American Mathematical Monthly, 2018, 125, 878-884.	0.3	5
30	Optimal Line Packings from Nonabelian Groups. Discrete and Computational Geometry, 2020, 63, 731-763.	0.6	5
31	Hadamard equiangular tight frames. Applied and Computational Harmonic Analysis, 2021, 50, 281-302.	2.2	5
32	Projection retrieval: Theory and algorithms. , 2015, , .		4
33	Clustering subgaussian mixtures with k-means. , 2016, , .		4
34	SqueezeFit: Label-Aware Dimensionality Reduction by Semidefinite Programming. IEEE Transactions on Information Theory, 2020, 66, 3878-3892.	2.4	4
35	Game of Sloanes: best known packings in complex projective space. , 2019, , .		4
36	A note on tight projective 2â€designs. Journal of Combinatorial Designs, 2021, 29, 809.	0.6	3

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37	Doubly transitive lines I: Higman pairs and roux. Journal of Combinatorial Theory - Series A, 2022, 185, 105540.	0.8	3
38	Frames over finite fields: Basic theory and equiangular lines in unitary geometry. Finite Fields and Their Applications, 2022, 77, 101954.	1.0	3
39	Frames over finite fields: Equiangular lines in orthogonal geometry. Linear Algebra and Its Applications, 2022, 639, 50-80.	0.9	3
40	Group model selection using marginal correlations: The good, the bad and the Ugly. , 2012, , .		2
41	Sketching Semidefinite Programs for Faster Clustering. IEEE Transactions on Information Theory, 2021, 67, 6832-6840.	2.4	2
42	A Short Introduction to Optimal Line Packings. College Mathematics Journal, 2018, 49, 82-91.	0.1	1
43	The Optimal Packing of Eight Points in the Real Projective Plane. Experimental Mathematics, 2019, , 1-12.	0.7	1
44	Exact Line Packings from Numerical Solutions. , 2019, , .		1
45	Globally Optimizing Small Codes in Real Projective Spaces. SIAM Journal on Discrete Mathematics, 2021, 35, 234-249.	0.8	1
46	Sketching with Kerdock's Crayons: Fast Sparsifying Transforms for Arbitrary Linear Maps. SIAM Journal on Matrix Analysis and Applications, 2022, 43, 939-952.	1.4	1
47	Optimal Frames and Newton's Method. Numerical Functional Analysis and Optimization, 2012, 33, 971-988.	1.4	0
48	A Delsarte-Style Proof of the Bukhâ€"Cox Bound. , 2019, , .		0
49	Derandomized Compressed Sensing with Nonuniform Guarantees for $$ell _1$$ Recovery. Journal of Fourier Analysis and Applications, 2022, 28, 1.	1.0	0
50	A Note on Totally Symmetric Equi-Isoclinic Tight Fusion Frames. , 2022, , .		0