

Bryan Shader

List of Publications by Year in descending order

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92
papers

1,085
citations

516710

16
h-index

501196

28
g-index

97
all docs

97
docs citations

97
times ranked

398
citing authors

#	ARTICLE	IF	CITATIONS
1	Zero forcing parameters and minimum rank problems. <i>Linear Algebra and Its Applications</i> , 2010, 433, 401-411.	0.9	117
2	Parameters Related to Tree-Width, Zero Forcing, and Maximum Nullity of a Graph. <i>Journal of Graph Theory</i> , 2013, 72, 146-177.	0.9	76
3	Characteristic vertices of weighted trees via perron values. <i>Linear and Multilinear Algebra</i> , 1996, 40, 311-325.	1.0	67
4	On graphs with equal algebraic and vertex connectivity. <i>Linear Algebra and Its Applications</i> , 2002, 341, 45-56.	0.9	57
5	Distances in Weighted Trees and Group Inverse of Laplacian Matrices. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1997, 18, 827-841.	1.4	45
6	An upper bound for the minimum rank of a graph. <i>Linear Algebra and Its Applications</i> , 2008, 429, 1629-1638.	0.9	39
7	Exponents of nonnegative matrix pairs. <i>Linear Algebra and Its Applications</i> , 2003, 363, 275-293.	0.9	34
8	On the minimum rank of not necessarily symmetric matrices: A preliminary study. <i>Electronic Journal of Linear Algebra</i> , 0, 18, .	0.6	34
9	Applications of Paz's inequality to perturbation bounds for Markov chains. <i>Linear Algebra and Its Applications</i> , 1998, 268, 183-196.	0.9	31
10	Biclique decompositions and Hermitian rank. <i>Linear Algebra and Its Applications</i> , 1999, 292, 267-280.	0.9	29
11	Pick's inequality and tournaments. <i>Linear Algebra and Its Applications</i> , 1993, 186, 15-36.	0.9	23
12	Exponents of tuples of nonnegative matrices. <i>Linear Algebra and Its Applications</i> , 2002, 356, 123-134.	0.9	23
13	Spectrally arbitrary patterns: Reducibility and the $2n$ conjecture for $n=5$. <i>Linear Algebra and Its Applications</i> , 2007, 423, 262-276.	0.9	23
14	On Fiedler- and Parter-vertices of acyclic matrices. <i>Linear Algebra and Its Applications</i> , 2008, 428, 2601-2613.	0.9	23
15	Multicolored forests in bipartite decompositions of graphs. <i>Journal of Combinatorial Theory Series B</i> , 1991, 53, 143-148.	1.0	19
16	Rectangular L-matrices. <i>Linear Algebra and Its Applications</i> , 1994, 196, 37-61.	0.9	19
17	Extremal properties of ray-nonsingular matrices. <i>Discrete Mathematics</i> , 2000, 216, 221-233.	0.7	19
18	Construction of matrices with a given graph and prescribed interlaced spectral data. <i>Linear Algebra and Its Applications</i> , 2013, 438, 4348-4358.	0.9	19

#	ARTICLE	IF	CITATIONS
19	Generating potentially nilpotent full sign patterns. <i>Electronic Journal of Linear Algebra</i> , 0, 18, .	0.6	18
20	Tournament matrices with extremal spectral properties. <i>Linear Algebra and Its Applications</i> , 1994, 196, 1-17.	0.9	17
21	Non-singular acyclic matrices. <i>Linear and Multilinear Algebra</i> , 2009, 57, 399-407.	1.0	17
22	Least Squares Sign-Solvability. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1995, 16, 1056-1073.	1.4	15
23	Smith Normal Form and acyclic matrices. <i>Journal of Algebraic Combinatorics</i> , 2009, 29, 63-80.	0.8	15
24	Expected values of parameters associated with the minimum rank of a graph. <i>Linear Algebra and Its Applications</i> , 2010, 433, 101-117.	0.9	15
25	On determining minimal spectrally arbitrary patterns. <i>Electronic Journal of Linear Algebra</i> , 0, 13, .	0.6	15
26	Companion matrix patterns. <i>Linear Algebra and Its Applications</i> , 2014, 463, 255-272.	0.9	14
27	The inverse eigenvalue problem of a graph: Multiplicities and minors. <i>Journal of Combinatorial Theory Series B</i> , 2020, 142, 276-306.	1.0	14
28	The nilpotent-centralizer method for spectrally arbitrary patterns. <i>Linear Algebra and Its Applications</i> , 2013, 438, 3836-3850.	0.9	13
29	Bipartite Graphs and Inverse Sign Patterns of Strong Sign-Nonsingular Matrices. <i>Journal of Combinatorial Theory Series B</i> , 1994, 62, 133-150.	1.0	12
30	A Construction for (t,m,s) -nets in Base q . <i>SIAM Journal on Discrete Mathematics</i> , 1997, 10, 460-468.	0.8	11
31	Irreducible, pattern k -potent ray pattern matrices. <i>Linear Algebra and Its Applications</i> , 2002, 346, 261-271.	0.9	11
32	Sparse orthogonal matrices and the Haar wavelet. <i>Discrete Applied Mathematics</i> , 2000, 101, 63-76.	0.9	10
33	Strong Hall Matrices. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1994, 15, 359-365.	1.4	9
34	Rank comparisons. <i>Linear Algebra and Its Applications</i> , 1995, 221, 171-188.	0.9	9
35	Conditional sign-solvability. <i>Mathematical and Computer Modelling</i> , 1993, 17, 141-148.	2.0	8
36	Minimum permanents on special faces of the polytope of doubly stochastic matrices. <i>Linear Algebra and Its Applications</i> , 1994, 201, 103-111.	0.9	8

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37	On almost regular tournament matrices. <i>Linear Algebra and Its Applications</i> , 2000, 306, 103-121.	0.9	8
38	On matrices which have signed null-spaces. <i>Linear Algebra and Its Applications</i> , 2002, 353, 245-255.	0.9	8
39	Classes of graphs with minimum skew rank 4. <i>Linear Algebra and Its Applications</i> , 2013, 439, 3643-3657.	0.9	8
40	How Sparse Can a Matrix with Orthogonal Rows Be?. <i>Journal of Combinatorial Theory - Series A</i> , 1999, 85, 29-40.	0.8	7
41	Acyclic matrices with a small number of distinct eigenvalues. <i>Linear Algebra and Its Applications</i> , 2013, 438, 4075-4089.	0.9	7
42	On biclique decompositions of complete t-partite graphs. <i>Linear Algebra and Its Applications</i> , 1995, 217, 31-40.	0.9	6
43	On graphs of minimum skew rank 4. <i>Linear and Multilinear Algebra</i> , 2016, 64, 279-289.	1.0	6
44	Sign-consistency and solvability of constrained linear systems. <i>Electronic Journal of Linear Algebra</i> , 0, 4, .	0.6	6
45	Integrally normalizable matrices and zero/nonzero patterns. <i>Linear Algebra and Its Applications</i> , 2014, 449, 132-153.	0.9	5
46	Nearly positive matrices. <i>Linear Algebra and Its Applications</i> , 2014, 449, 520-544.	0.9	5
47	Maximal P-sets of matrices whose graph is a tree. <i>Linear Algebra and Its Applications</i> , 2015, 485, 485-502.	0.9	5
48	On the maximum skew spectral radius and minimum skew energy of tournaments. <i>Linear and Multilinear Algebra</i> , 2018, 66, 1434-1441.	1.0	5
49	Non-existence of 5X5 full ray nonsingular matrices. <i>Electronic Journal of Linear Algebra</i> , 0, 11, .	0.6	5
50	CLASSIFICATION OF TREES EACH OF WHOSE ASSOCIATED ACYCLIC MATRICES WITH DISTINCT DIAGONAL ENTRIES HAS DISTINCT EIGENVALUES. <i>Bulletin of the Korean Mathematical Society</i> , 2008, 45, 95-99.	0.3	5
51	Tight bounds on the algebraic connectivity of a balanced binary tree. <i>Electronic Journal of Linear Algebra</i> , 0, 6, .	0.6	5
52	Sparse orthogonal matrices. <i>Linear Algebra and Its Applications</i> , 2003, 373, 211-222.	0.9	4
53	$(\hat{A} \pm 1)$ -Invariant sequences and truncated Fibonacci sequences. <i>Linear Algebra and Its Applications</i> , 2005, 395, 303-312.	0.9	4
54	Fastest mixing Markov chain problem for the union of two cliques. <i>Linear and Multilinear Algebra</i> , 2011, 59, 801-823.	1.0	4

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55	Unordered multiplicity lists of a class of binary trees. <i>Linear Algebra and Its Applications</i> , 2013, 438, 3781-3788.	0.9	4
56	Characterization of a family of generalized companion matrices. <i>Linear Algebra and Its Applications</i> , 2016, 498, 360-365.	0.9	4
57	On biclique partitions of the complete graph. <i>Discrete Mathematics</i> , 1993, 117, 197-213.	0.7	3
58	On multipartite tournament matrices with constant team size $\hat{=}$. <i>Linear and Multilinear Algebra</i> , 1993, 35, 49-63.	1.0	3
59	Rank decompositions and signed bigraphs. <i>Linear and Multilinear Algebra</i> , 1996, 40, 283-301.	1.0	3
60	Sparsity of orthogonal matrices with restrictions. <i>Linear Algebra and Its Applications</i> , 2000, 306, 33-44.	0.9	3
61	Score certificate numbers of upset tournaments. <i>Discrete Applied Mathematics</i> , 2000, 103, 177-189.	0.9	3
62	All pairs suffice for a P-set. <i>Linear Algebra and Its Applications</i> , 2015, 475, 114-118.	0.9	3
63	Spectrally arbitrary pattern extensions. <i>Linear Algebra and Its Applications</i> , 2017, 517, 120-128.	0.9	3
64	Cutsets in bipartite graphs*. <i>Linear and Multilinear Algebra</i> , 1993, 34, 51-54.	1.0	2
65	Scheduling Conflict-free Parties for a Dating Service. <i>American Mathematical Monthly</i> , 1997, 104, 99-106.	0.3	2
66	Properties of Tournaments Among Well-Matched Players. <i>American Mathematical Monthly</i> , 2000, 107, 881-892.	0.3	2
67	Sign-Solvable Cone-Systems. <i>Linear and Multilinear Algebra</i> , 2002, 50, 23-32.	1.0	2
68	Maximum generic nullity of a graph. <i>Linear Algebra and Its Applications</i> , 2010, 432, 857-866.	0.9	2
69	Sign patterns of orthogonal matrices and the strong inner product property. <i>Linear Algebra and Its Applications</i> , 2020, 592, 228-259.	0.9	2
70	Properties of Tournaments among Well-Matched Players. <i>American Mathematical Monthly</i> , 2000, 107, 881.	0.3	2
71	Matrix factorizations of determinants and permanents. <i>Journal of Combinatorial Theory - Series A</i> , 1990, 54, 132-134.	0.8	1
72	Matrices of 0's and 1's with restricted permanental minors. <i>Discrete Mathematics</i> , 1991, 96, 161-174.	0.7	1

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73	On Matrices with Signed Null-Spaces. SIAM Journal on Matrix Analysis and Applications, 2002, 24, 570-580.	1.4	1
74	The $\hat{b} \hat{a}^{-1}$, structured inverse eigenvalue problem. Linear and Multilinear Algebra, 2015, 63, 2275-2300.	1.0	1
75	Properties of a q-Analogue of Zero Forcing. Graphs and Combinatorics, 2020, 36, 1401-1419.	0.4	1
76	Bipartite Graphs and Matrices. Discrete Mathematics and Its Applications, 2013, , 685-697.	0.1	1
77	Even and odd tournament matrices with minimum rank over finite fields. Electronic Journal of Linear Algebra, 0, 22, .	0.6	1
78	Sparse spectrally arbitrary patterns. Electronic Journal of Linear Algebra, 0, 28, .	0.6	1
79	Review of Combinatorial Matrix Theory by Richard A. Brualdi and Herbert J. Ryser. Linear Algebra and Its Applications, 1992, 173, 273-275.	0.9	0
80	Skew rank decompositions. Linear Algebra and Its Applications, 1996, 244, 123-154.	0.9	0
81	Set-systems with signed solutions. Linear Algebra and Its Applications, 2003, 361, 121-132.	0.9	0
82	Permanents of woven matrices. Linear Algebra and Its Applications, 2003, 364, 223-233.	0.9	0
83	Theory and applications of matrices described by patterns: Preface and workshop report. Linear Algebra and Its Applications, 2012, 436, 4349-4351.	0.9	0
84	A $\langle \text{mml:math xmlns:mml}="http://www.w3.org/1998/Math/MathML" \text{ altimg}="si1.gif" \text{ overflow}="scroll" \rangle \langle \text{mml:mo stretchy}="false" \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 0 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle , \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \text{ Tj ET Qq 0 0 0 rg BT /Over$ with dimers and monomers. Linear Algebra and Its Applications, 2015, 485, 503-526.		
85	Integrally normalizable matrices with respect to a given set. Linear Algebra and Its Applications, 2016, 498, 317-325.	0.9	0
86	Sign patterns that require a positive or nonnegative left inverse. Electronic Journal of Linear Algebra, 0, 17, .	0.6	0
87	Permanents of Hessenberg (0,1)-matrices revisited. Electronic Journal of Linear Algebra, 0, 20, .	0.6	0
88	Discovery Science. , 2013, , 1-5.		0
89	Note from Editor-in-chief. Electronic Journal of Linear Algebra, 0, 26, .	0.6	0
90	Discovery Science. , 2015, , 336-340.		0

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91	Preface special volume on the Conference on Graph Theory, Matrix Theory and Interactions. Electronic Journal of Linear Algebra, 0, 28, .	0.6	0
92	Riordan-Krylov matrices over an algebra. Linear Algebra and Its Applications, 2022, 636, 93-114.	0.9	0