Bryan Shader

List of Publications by Year
in descending order

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Version: 2024-02-01

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	Riordan-Krylov matrices over an algebra. Linear Algebra and Its Applications, 2022, 636, 93-114.	0.9	0
2	The inverse eigenvalue problem of a graph: Multiplicities and minors. Journal of Combinatorial Theory Series B, 2020, 142, 276-306.	1.0	14
3	Properties of a q-Analogue of Zero Forcing. Graphs and Combinatorics, 2020, 36, 1401-1419.	0.4	1
4	Sign patterns of orthogonal matrices and the strong inner product property. Linear Algebra and Its Applications, 2020, 592, 228-259.	0.9	2
5	On the maximum skew spectral radius and minimum skew energy of tournaments. Linear and Multilinear Algebra, 2018, 66, 1434-1441.	1.0	5
6	Spectrally arbitrary pattern extensions. Linear Algebra and Its Applications, 2017, 517, 120-128.	0.9	3
7	On graphs of minimum skew rank 4. Linear and Multilinear Algebra, 2016, 64, 279-289.	1.0	6
8	Integrally normalizable matrices with respect to a given set. Linear Algebra and Its Applications, 2016, 498, 317-325.	0.9	0
9	Characterization of a family of generalized companion matrices. Linear Algebra and Its Applications, 2016, 498, 360-365.	0.9	4
10	A <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mo stretchy="false">(</mml:mo><mml:mn>0</mml:mn><mml:mo>,</mml:mo><mml:mn>1</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlo with dimers and monomers. Linear Algebra and Its Applications, 2015, 485, 503-526.	0.9	0
11	Maximal P-sets of matrices whose graph is a tree. Linear Algebra and Its Applications, 2015, 485, 485-502.	0.9	5
12	The Î» â^’ Ï„ structured inverse eigenvalue problem. Linear and Multilinear Algebra, 2015, 63, 2275-2300.	1.0	1
13	All pairs suffice for a P-set. Linear Algebra and Its Applications, 2015, 475, 114-118.	0.9	3
14	Discovery Science. , 2015, , 336-340.		0
15	Integrally normalizable matrices and zeroâ€“nonzero patterns. Linear Algebra and Its Applications, 2014, 449, 132-153.	0.9	5
16	Companion matrix patterns. Linear Algebra and Its Applications, 2014, 463, 255-272.	0.9	14
17	Nearly positive matrices. Linear Algebra and Its Applications, 2014, 449, 520-544.	0.9	5
18	Parameters Related to Treeâ€Width, Zero Forcing, and Maximum Nullity of a Graph. Journal of Graph Theory, 2013, 72, 146-177.	0.9	76

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19	Construction of matrices with a given graph and prescribed interlaced spectral data. Linear Algebra and Its Applications, 2013, 438, 4348-4358.	0.9	19
20	Classes of graphs with minimum skew rank 4. Linear Algebra and Its Applications, 2013, 439, 3643-3657.	0.9	8
21	The nilpotent-centralizer method for spectrally arbitrary patterns. Linear Algebra and Its Applications, 2013, 438, 3836-3850.	0.9	13
22	Unordered multiplicity lists of a class of binary trees. Linear Algebra and Its Applications, 2013, 438, 3781-3788.	0.9	4
23	Acyclic matrices with a small number of distinct eigenvalues. Linear Algebra and Its Applications, 2013, 438, 4075-4089.	0.9	7
24	Bipartite Graphs and Matrices. Discrete Mathematics and Its Applications, 2013, , 685-697.	0.1	1
25	Discovery Science. , 2013, , 1-5.		0
26	Theory and applications of matrices described by patterns: Preface and workshop report. Linear Algebra and Its Applications, 2012, 436, 4349-4351.	0.9	0
27	Fastest mixing Markov chain problem for the union of two cliques. Linear and Multilinear Algebra, 2011, 59, 801-823.	1.0	4
28	Maximum generic nullity of a graph. Linear Algebra and Its Applications, 2010, 432, 857-866.	0.9	2
29	Expected values of parameters associated with the minimum rank of a graph. Linear Algebra and Its Applications, 2010, 433, 101-117.	0.9	15
30	Zero forcing parameters and minimum rank problems. Linear Algebra and Its Applications, 2010, 433, 401-411.	0.9	117
31	Non-singular acyclic matrices. Linear and Multilinear Algebra, 2009, 57, 399-407.	1.0	17
32	Smith Normal Form and acyclic matrices. Journal of Algebraic Combinatorics, 2009, 29, 63-80.	0.8	15
33	On Fiedler- and Parter-vertices of acyclic matrices. Linear Algebra and Its Applications, 2008, 428, 2601-2613.	0.9	23
34	An upper bound for the minimum rank of a graph. Linear Algebra and Its Applications, 2008, 429, 1629-1638.	0.9	39
35	CLASSIFICATION OF TREES EACH OF WHOSE ASSOCIATED ACYCLIC MATRICES WITH DISTINCT DIAGONAL ENTRIES HAS DISTINCT EIGENVALUES. Bulletin of the Korean Mathematical Society, 2008, 45, 95-99.	0.3	5
36	Spectrally arbitrary patterns: Reducibility and the 2n conjecture for n=5. Linear Algebra and Its Applications, 2007, 423, 262-276.	0.9	23

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37	(Â±1)-Invariant sequences and truncated Fibonacci sequences. Linear Algebra and Its Applications, 2005, 395, 303-312.	0.9	4
38	Exponents of nonnegative matrix pairs. Linear Algebra and Its Applications, 2003, 363, 275-293.	0.9	34
39	Set-systems with signed solutions. Linear Algebra and Its Applications, 2003, 361, 121-132.	0.9	0
40	Permanents of woven matrices. Linear Algebra and Its Applications, 2003, 364, 223-233.	0.9	0
41	Sparse orthogonal matrices. Linear Algebra and Its Applications, 2003, 373, 211-222.	0.9	4
42	Sign-Solvable Cone-Systems. Linear and Multilinear Algebra, 2002, 50, 23-32.	1.0	2
43	On Matrices with Signed Null-Spaces. SIAM Journal on Matrix Analysis and Applications, 2002, 24, 570-580.	1.4	1
44	On graphs with equal algebraic and vertex connectivity. Linear Algebra and Its Applications, 2002, 341, 45-56.	0.9	57
45	Irreducible, pattern k-potent ray pattern matrices. Linear Algebra and Its Applications, 2002, 346, 261-271.	0.9	11
46	On matrices which have signed null-spaces. Linear Algebra and Its Applications, 2002, 353, 245-255.	0.9	8
47	Exponents of tuples of nonnegative matrices. Linear Algebra and Its Applications, 2002, 356, 123-134.	0.9	23
48	Extremal properties of ray-nonsingular matrices. Discrete Mathematics, 2000, 216, 221-233.	0.7	19
49	Sparsity of orthogonal matrices with restrictions. Linear Algebra and Its Applications, 2000, 306, 33-44.	0.9	3
50	On almost regular tournament matrices. Linear Algebra and Its Applications, 2000, 306, 103-121.	0.9	8
51	Sparse orthogonal matrices and the Haar wavelet. Discrete Applied Mathematics, 2000, 101, 63-76.	0.9	10
52	Score certificate numbers of upset tournaments. Discrete Applied Mathematics, 2000, 103, 177-189.	0.9	3
53	Properties of Tournaments Among Well-Matched Players. American Mathematical Monthly, 2000, 107, 881-892.	0.3	2
54	Properties of Tournaments among Well-Matched Players. American Mathematical Monthly, 2000, 107, 881.	0.3	2

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55	Biclique decompositions and Hermitian rank. Linear Algebra and Its Applications, 1999, 292, 267-280.	0.9	29
56	How Sparse Can a Matrix with Orthogonal Rows Be?. Journal of Combinatorial Theory - Series A, 1999, 85, 29-40.	0.8	7
57	Applications of Paz's inequality to perturbation bounds for Markov chains. Linear Algebra and Its Applications, 1998, 268, 183-196.	0.9	31
58	A Construction for (t,m,s)-nets in Base q. SIAM Journal on Discrete Mathematics, 1997, 10, 460-468.	0.8	11
59	Distances in Weighted Trees and Group Inverse of Laplacian Matrices. SIAM Journal on Matrix Analysis and Applications, 1997, 18, 827-841.	1.4	45
60	Scheduling Conflict-free Parties for a Dating Service. American Mathematical Monthly, 1997, 104, 99-106.	0.3	2
61	Skew rank decompositions. Linear Algebra and Its Applications, 1996, 244, 123-154.	0.9	0
62	Rank decompositions and signed bigraphs. Linear and Multilinear Algebra, 1996, 40, 283-301.	1.0	3
63	Characteristic vertices of weighted trees via perron values. Linear and Multilinear Algebra, 1996, 40, 311-325.	1.0	67
64	Rank comparisons. Linear Algebra and Its Applications, 1995, 221, 171-188.	0.9	9
65	On biclique decompositions of complete t-partite graphs. Linear Algebra and Its Applications, 1995, 217, 31-40.	0.9	6
66	Least Squares Sign-Solvability. SIAM Journal on Matrix Analysis and Applications, 1995, 16, 1056-1073.	1.4	15
67	Minimum permanents on special faces of the polytope of doubly stochastic matrices. Linear Algebra and Its Applications, 1994, 201, 103-111.	0.9	8
68	Bipartite Graphs and Inverse Sign Patterns of Strong Sign-Nonsingular Matrices. Journal of Combinatorial Theory Series B, 1994, 62, 133-150.	1.0	12
69	Tournament matrices with extremal spectral properties. Linear Algebra and Its Applications, 1994, 196, 1-17.	0.9	17
70	Rectangular L-matrices. Linear Algebra and Its Applications, 1994, 196, 37-61.	0.9	19
71	Strong Hall Matrices. SIAM Journal on Matrix Analysis and Applications, 1994, 15, 359-365.	1.4	9
72	On biclique partitions of the complete graph. Discrete Mathematics, 1993, 117, 197-213.	0.7	3

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73	Pick's inequality and tournaments. Linear Algebra and Its Applications, 1993, 186, 15-36.	0.9	23
74	Conditional sign-solvability. Mathematical and Computer Modelling, 1993, 17, 141-148.	2.0	8
75	On multipartite tournament matrices with constant team sizeâˆ—. Linear and Multilinear Algebra, 1993, 35, 49-63.	1.0	3
76	Cutsets in bipartite graphs*. Linear and Multilinear Algebra, 1993, 34, 51-54.	1.0	2
77	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
78	Multicolored forests in bipartite decompositions of graphs. Journal of Combinatorial Theory Series B, 1991, 53, 143-148.	1.0	19
79	Matrices of 0's and 1's with restricted permanental minors. Discrete Mathematics, 1991, 96, 161-174.	0.7	1
80	Matrix factorizations of determinants and permanents. Journal of Combinatorial Theory - Series A, 1990, 54, 132-134.	0.8	1
81	Sign-consistency and solvability of constrained linear systems. Electronic Journal of Linear Algebra, 0, 4, .	0.6	6
82	Non-existence of 5X5 full ray nonsingular matrices. Electronic Journal of Linear Algebra, 0, 11, .	0.6	5
83	On determining minimal spectrally arbitrary patterns. Electronic Journal of Linear Algebra, 0, 13, .	0.6	15
84	On the minimum rank of not necessarily symmetric matrices: A preliminary study. Electronic Journal of Linear Algebra, 0, 18, .	0.6	34
85	Generating potentially nilpotent full sign patterns. Electronic Journal of Linear Algebra, 0, 18, .	0.6	18
86	Even and odd tournament matrices with minimum rank over finite fields. Electronic Journal of Linear Algebra, 0, 22, .	0.6	1
87	Sparse spectrally arbitrary patterns. Electronic Journal of Linear Algebra, 0, 28, .	0.6	1
88	Sign patterns that require a positive or nonnegative left inverse. Electronic Journal of Linear Algebra, 0, 17, .	0.6	0
89	Permanents of Hessenberg (0,1)-matrices revisited. Electronic Journal of Linear Algebra, 0, 20, .	0.6	0
90	Note from Editor-in-chief. Electronic Journal of Linear Algebra, 0, 26, .	0.6	0

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91	Tight bounds on the algebraic connectivity of a balanced binary tree. Electronic Journal of Linear Algebra, 0, 6, .	0.6	5
92	Preface special volume on the Conference on Graph Theory, Matrix Theory and Interactions. Electronic Journal of Linear Algebra, 0, 28, .	0.6	0