

Alexander Guterman

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Some general techniques on linear preserver problems. <i>Linear Algebra and Its Applications</i> , 2000, 315, 61-81.	0.4	93
2	TROPICAL POLYHEDRA ARE EQUIVALENT TO MEAN PAYOFF GAMES. <i>International Journal of Algebra and Computation</i> , 2012, 22, 1250001.	0.4	88
3	Linear preservers for matrix inequalities and partial orderings. <i>Linear Algebra and Its Applications</i> , 2001, 331, 75-87.	0.4	31
4	Commutative matrix subalgebras and length function. <i>Linear Algebra and Its Applications</i> , 2009, 430, 1790-1805.	0.4	28
5	RANK INEQUALITIES OVER SEMIRINGS. <i>Journal of the Korean Mathematical Society</i> , 2005, 42, 223-241.	0.4	28
6	A resolution of Paz's conjecture in the presence of a nonderogatory matrix. <i>Linear Algebra and Its Applications</i> , 2018, 543, 234-250.	0.4	24
7	Rank functions of tropical matrices. <i>Linear Algebra and Its Applications</i> , 2016, 498, 326-348.	0.4	19
8	LINEAR PRESERVERS FOR DRAZIN STAR PARTIAL ORDER. <i>Communications in Algebra</i> , 2001, 29, 3905-3917.	0.3	16
9	Extremal matrix centralizers. <i>Linear Algebra and Its Applications</i> , 2013, 438, 2904-2910.	0.4	15
10	Length realizability for pairs of quasi-commuting matrices. <i>Linear Algebra and Its Applications</i> , 2019, 568, 135-154.	0.4	15
11	Majorization for matrix classes. <i>Linear Algebra and Its Applications</i> , 2018, 555, 201-221.	0.4	13
12	On the Polya permanent problem over finite fields. <i>European Journal of Combinatorics</i> , 2011, 32, 116-132.	0.5	12
13	Monotone Linear Transformations on Matrices Are Invertible. <i>Communications in Algebra</i> , 2005, 33, 3335-3352.	0.3	11
14	Linear preservers of extremes of rank inequalities over semirings: Row and column ranks. <i>Linear Algebra and Its Applications</i> , 2006, 413, 495-509.	0.4	10
15	The characterization of operators preserving primitivity for matrix k -tuples. <i>Linear Algebra and Its Applications</i> , 2009, 430, 1762-1777.	0.4	10
16	Linear isomorphisms preserving Green's relations for matrices over anti-negative semifields. <i>Linear Algebra and Its Applications</i> , 2018, 545, 1-14.	0.4	9
17	Majorization for $(0,1)$ -matrices. <i>Linear Algebra and Its Applications</i> , 2020, 585, 147-163.	0.4	9
18	Upper bounds for the length of non-associative algebras. <i>Journal of Algebra</i> , 2020, 544, 483-497.	0.4	9

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19	Commuting graphs and extremal centralizers. <i>Ars Mathematica Contemporanea</i> , 2014, 7, 453-459.	0.3	9
20	New matrix partial order based on spectrally orthogonal matrix decomposition. <i>Linear and Multilinear Algebra</i> , 2016, 64, 362-374.	0.5	8
21	Linear preservers of zeros of matrix polynomials. <i>Linear Algebra and Its Applications</i> , 2005, 401, 325-340.	0.4	7
22	Lengths of quasi-commutative pairs of matrices. <i>Linear Algebra and Its Applications</i> , 2016, 498, 450-470.	0.4	6
23	Orthograph related to mutual strong Birkhoff-James orthogonality in C^* -algebras. <i>Banach Journal of Mathematical Analysis</i> , 2020, 14, 1751-1772.	0.4	6
24	Frobenius type theorems in the noncommutative case. <i>Linear and Multilinear Algebra</i> , 2001, 48, 293-311.	0.5	5
25	Linear transformations preserving the Grassmannian over $M_n(\mathbb{Z})$. <i>Linear Algebra and Its Applications</i> , 2004, 393, 39-46.	0.4	5
26	Preserving regular tournaments and term rank-1. <i>Linear Algebra and Its Applications</i> , 2009, 431, 926-936.	0.4	5
27	Characteristic sequences of non-associative algebras. <i>Communications in Algebra</i> , 2020, 48, 1713-1725.	0.3	5
28	Linear preservers of rank permutability. <i>Linear Algebra and Its Applications</i> , 2004, 384, 97-108.	0.4	4
29	Tropical patterns of matrices and the Gondran-Minoux rank function. <i>Linear Algebra and Its Applications</i> , 2012, 437, 1793-1811.	0.4	4
30	Extremal case in Marcus-Oliveira conjecture and beyond. <i>Linear and Multilinear Algebra</i> , 2013, 61, 1206-1222.	0.5	4
31	Converting immanants on singular symmetric matrices. <i>Lobachevskii Journal of Mathematics</i> , 2017, 38, 630-636.	0.1	4
32	Maps preserving scrambling index. <i>Linear and Multilinear Algebra</i> , 2018, 66, 840-851.	0.5	4
33	On the values of the permanent of $(0,1)$ -matrices. <i>Linear Algebra and Its Applications</i> , 2018, 552, 256-276.	0.4	4
34	Linear converters of weak, directional and strong majorizations. <i>Linear Algebra and Its Applications</i> , 2021, 613, 320-346.	0.4	4
35	On the Lengths of group Algebras of Finite Abelian Groups in the Semi-Simple Case. <i>Journal of Algebra and Its Applications</i> , 0, , .	0.3	4
36	Symmetrized Birkhoff-James orthogonality in arbitrary normed spaces. <i>Journal of Mathematical Analysis and Applications</i> , 2021, 502, 125203.	0.5	4

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37	Frobenius and Dieudonné theorems over semirings. <i>Linear and Multilinear Algebra</i> , 2007, 55, 19-34.	0.5	3
38	On linear operators preserving the set of positive polynomials. <i>Journal of Fixed Point Theory and Applications</i> , 2008, 3, 411-429.	0.6	3
39	Matrix Invariants over Semirings. <i>Handbook of Algebra</i> , 2009, 6, 3-33.	0.4	3
40	The arctic rank of a Boolean matrix. <i>Journal of Algebra</i> , 2015, 433, 168-182.	0.4	3
41	Higher-distance commuting varieties. <i>Linear and Multilinear Algebra</i> , 2020, , 1-23.	0.5	3
42	Permanent Polya problem for additive surjective maps. <i>Linear Algebra and Its Applications</i> , 2020, 599, 140-155.	0.4	3
43	Length function and characteristic sequences of quadratic algebras. <i>Journal of Algebra</i> , 2021, 579, 428-455.	0.4	3
44	Additive maps preserving the scrambling index are bijective. <i>Acta Scientiarum Mathematicarum</i> , 2018, 84, 19-38.	0.2	3
45	Rank-permutable additive mappings. <i>Linear Algebra and Its Applications</i> , 2006, 414, 607-616.	0.4	2
46	Maps preserving zeros of matrix polynomials. <i>Doklady Mathematics</i> , 2009, 80, 508-510.	0.1	2
47	Extremal generalized centralizers in matrix algebras. <i>Communications in Algebra</i> , 2018, 46, 3147-3154.	0.3	2
48	Maps preserving matrices of extremal scrambling index. <i>Special Matrices</i> , 2018, 6, 166-179.	0.2	2
49	Preserving $\hat{\triangleright}$ -scrambling Matrices*. <i>Fundamenta Informaticae</i> , 2018, 162, 119-141.	0.3	2
50	KrÄuter conjecture on permanents is true. <i>Journal of Combinatorial Theory - Series A</i> , 2019, 162, 306-343.	0.5	2
51	Double centralizing theorem with respect to q-commutativity relation. <i>Journal of Algebra and Its Applications</i> , 2019, 18, 1950003.	0.3	2
52	Linear functions preserving Green's relations over fields. <i>Linear Algebra and Its Applications</i> , 2021, 611, 310-333.	0.4	2
53	On the lengths of group algebras of finite abelian groups in the modular case. <i>Journal of Algebra and Its Applications</i> , 0, , 2250117.	0.3	2
54	Linear transformations of tropical matrices preserving the cyclicity index. <i>Special Matrices</i> , 2021, 9, 112-118.	0.2	2

#	ARTICLE	IF	CITATIONS
55	A Note on Linear Preservers of a Certain Matrix Partial Order. , 2000, , 441-446.		2
56	Commutativity preservers via maximal centralizers. <i>Publicationes Mathematicae</i> , 2014, 84, 439-450.	0.1	2
57	Orthogonality for $(0, \hat{\alpha}^1)$ tropical normal matrices. <i>Special Matrices</i> , 2020, 8, 40-60.	0.2	2
58	On the C-determinantal range for special classes of matrices. <i>Applied Mathematics and Computation</i> , 2016, 275, 86-94.	1.4	1
59	More on geometry of Krein space C-numerical range. <i>Applied Mathematics and Computation</i> , 2019, 352, 258-269.	1.4	1
60	On Hartwig's Nambooripad orders. <i>Semigroup Forum</i> , 2019, 98, 64-74.	0.3	1
61	Integrability of diagonalizable matrices and a dual Schoenberg type inequality. <i>Journal of Mathematical Analysis and Applications</i> , 2021, 498, 124909.	0.5	1
62	Converting immanants on skew-symmetric matrices. <i>Linear Algebra and Its Applications</i> , 2021, 618, 76-96.	0.4	1
63	Operators preserving mutual strong Birkhoff's James orthogonality on $B(H)$. <i>Linear Algebra and Its Applications</i> , 2021, 624, 27-43.	0.4	1
64	Graph characterization of fully indecomposable nonconvertible $(0, 1)$ -matrices with minimal number of ones. <i>Ars Mathematica Contemporanea</i> , 2019, 17, 141-151.	0.3	1
65	Lower bounds for PÃ³lya's problem on permanent. <i>International Journal of Algebra and Computation</i> , 2016, 26, 1237-1255.	0.4	0
66	Ordering Orders and Quotient Rings. <i>Springer Proceedings in Mathematics and Statistics</i> , 2021, , 1-17.	0.1	0
67	Commutativity preservers via maximal centralizers. <i>Publicationes Mathematicae</i> , 2014, 84, 439-450.	0.1	0