

Fuzhen Zhang

List of Publications by Year in descending order

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48
papers

2,105
citations

471509

17
h-index

233421

45
g-index

50
all docs

50
docs citations

50
times ranked

1101
citing authors

#	ARTICLE	IF	CITATIONS
1	Quaternions and matrices of quaternions. <i>Linear Algebra and Its Applications</i> , 1997, 251, 21-57.	0.9	761
2	Matrix Theory. Universitext, 2011, , .	0.2	284
3	Matrix Theory. Universitext, 1999, , .	0.2	281
4	On the unitary diagonalisation of a special class of quaternion matrices. <i>Applied Mathematics Letters</i> , 2011, 24, 1806-1809.	2.7	71
5	A matrix decomposition and its applications. <i>Linear and Multilinear Algebra</i> , 2015, 63, 2033-2042.	1.0	67
6	Geršgorin type theorems for quaternionic matrices. <i>Linear Algebra and Its Applications</i> , 2007, 424, 139-153.	0.9	57
7	On the precise number of $(0,1)$ -matrices in $\langle \mathbb{M}_n \rangle$. <i>Linear Algebra and Its Applications</i> , 2007, 424, 139-153.	0.7	45
8	Some inequalities for the eigenvalues of the product of positive semidefinite Hermitian matrices. <i>Linear Algebra and Its Applications</i> , 1992, 160, 113-118.	0.9	42
9	Disc Separation of the Schur Complement of Diagonally Dominant Matrices and Determinantal Bounds. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2005, 27, 665-674.	1.4	39
10	The Schur complements of generalized doubly diagonally dominant matrices. <i>Linear Algebra and Its Applications</i> , 2004, 378, 231-244.	0.9	38
11	On the eigenvalues of quaternion matrices. <i>Linear and Multilinear Algebra</i> , 2011, 59, 451-473.	1.0	37
12	A generalization of the complex Autonne-Takagi factorization to quaternion matrices. <i>Linear and Multilinear Algebra</i> , 2012, 60, 1239-1244.	1.0	34
13	The numerical range of normal matrices with quaternion entries. <i>Linear and Multilinear Algebra</i> , 1994, 37, 175-195.	1.0	28
14	JORDAN CANONICAL FORM OF A PARTITIONED COMPLEX MATRIX AND ITS APPLICATION TO REAL QUATERNION MATRICES. <i>Communications in Algebra</i> , 2001, 29, 2363-2375.	0.6	26
15	Schur complements and matrix inequalities of hadamard products $\langle \mathbb{M}_n \rangle$. <i>Linear and Multilinear Algebra</i> , 1997, 43, 315-326.	1.0	24
16	On the Hadamard product of inverse M-matrices. <i>Linear Algebra and Its Applications</i> , 2000, 305, 23-31.	0.9	24
17	Trace and Eigenvalue Inequalities for Ordinary and Hadamard Products of Positive Semidefinite Hermitian Matrices. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1995, 16, 1173-1183.	1.4	20
18	On the Bohr inequality of operators. <i>Journal of Mathematical Analysis and Applications</i> , 2007, 333, 1264-1271.	1.0	19

#	ARTICLE	IF	CITATIONS
19	Schur complements and matrix inequalities in the Löwner ordering. <i>Linear Algebra and Its Applications</i> , 2000, 321, 399-410.	0.9	17
20	Some inequalities on generalized Schur complements. <i>Linear Algebra and Its Applications</i> , 1999, 302-303, 163-172.	0.9	15
21	Sign patterns of nonnegative normal matrices. <i>Linear Algebra and Its Applications</i> , 1997, 254, 335-354.	0.9	14
22	Equivalence of the Wielandt inequality and the Kantorovich inequality. <i>Linear and Multilinear Algebra</i> , 2001, 48, 275-279.	1.0	12
23	Positivity of matrices with generalized matrix functions. <i>Acta Mathematica Sinica, English Series</i> , 2012, 28, 1779-1786.	0.6	11
24	A Trace Inequality for Unitary Matrices. <i>American Mathematical Monthly</i> , 1994, 101, 453-455.	0.3	10
25	Contractive matrices of Hua type. <i>Linear and Multilinear Algebra</i> , 2011, 59, 159-172.	1.0	10
26	Polytopes of stochastic tensors. <i>Annals of Functional Analysis</i> , 2016, 7, 386-393.	0.8	10
27	On the number of vertices of the stochastic tensor polytope. <i>Linear and Multilinear Algebra</i> , 2017, 65, 2064-2075.	1.0	10
28	Notes on Hadamard products of matrices. <i>Linear and Multilinear Algebra</i> , 1989, 25, 237-242.	1.0	9
29	Words and normality of matrices. <i>Linear and Multilinear Algebra</i> , 1995, 40, 111-118.	1.0	9
30	An operator inequality and matrix normality. <i>Linear Algebra and Its Applications</i> , 1996, 240, 105-110.	0.9	9
31	Some inequalities of majorization type. <i>Linear Algebra and Its Applications</i> , 2012, 437, 1305-1316.	0.9	9
32	Revisiting Hua-Marcus-Bellman-Ando inequalities on contractive matrices. <i>Linear Algebra and Its Applications</i> , 2009, 430, 1499-1508.	0.9	8
33	Inequalities of generalized matrix functions via tensor products. <i>Electronic Journal of Linear Algebra</i> , 0, 27, .	0.6	8
34	An analytic approach to a permanent conjecture. <i>Linear Algebra and Its Applications</i> , 2013, 438, 1570-1579.	0.9	6
35	An update on a few permanent conjectures. <i>Special Matrices</i> , 2016, 4, .	0.5	6
36	The Permanent Functions of Tensors. <i>Acta Mathematica Vietnamica</i> , 2018, 43, 701-713.	0.4	5

#	ARTICLE	IF	CITATIONS
37	Angles, triangle inequalities, correlation matrices and metric-preserving and subadditive functions. <i>Linear Algebra and Its Applications</i> , 2016, 491, 15-29.	0.9	4
38	Inequalities for selected eigenvalues of the product of matrices. <i>Proceedings of the American Mathematical Society</i> , 2019, 147, 3705-3713.	0.8	4
39	On normal matrices of zeros and ones with fixed row sum. <i>Linear Algebra and Its Applications</i> , 1998, 275-276, 617-626.	0.9	3
40	A Matrix Identity on the Schur Complement. <i>Linear and Multilinear Algebra</i> , 2004, 52, 367-373.	1.0	3
41	An inequality for tensor product of positive operators and its applications. <i>Linear Algebra and Its Applications</i> , 2016, 498, 99-105.	0.9	3
42	An operator equality involving a continuous field of operators and its norm inequalities. <i>Linear Algebra and Its Applications</i> , 2008, 429, 2159-2167.	0.9	2
43	Criteria and Schur complements of H-matrices. <i>Journal of Applied Mathematics and Computing</i> , 2010, 32, 119-133.	2.5	2
44	Positivity of partitioned Hermitian matrices with unitarily invariant norms. <i>Positivity</i> , 2015, 19, 439-444.	0.7	2
45	An extension of Harnack type determinantal inequality. <i>Linear and Multilinear Algebra</i> , 2017, 65, 2024-2030.	1.0	2
46	Harnack type inequalities for matrices in majorization. <i>Linear Algebra and Its Applications</i> , 2020, 588, 196-209.	0.9	1
47	Some matrix inequalities of log-majorization type. <i>Canadian Mathematical Bulletin</i> , 0, , 1-11.	0.5	1
48	Enumerating extreme points of the polytopes of stochastic tensors: an optimization approach. <i>Optimization</i> , 2020, 69, 729-741.	1.7	0