

List of Publications by Year in descending order

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110
papers

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118
all docs

118
docs citations

118
times ranked

716
citing authors

#	ARTICLE	IF	CITATIONS
1	A fixed point theorem in partially ordered sets and some applications to matrix equations. Proceedings of the American Mathematical Society, 2003, 132, 1435-1443.	0.4	1,001
2	Existence and comparison theorems for algebraic Riccati equations for continuous- and discrete-time systems. Linear Algebra and Its Applications, 1988, 99, 63-83.	0.4	144
3	On an Iteration Method for Solving a Class of Nonlinear Matrix Equations. SIAM Journal on Matrix Analysis and Applications, 2002, 23, 632-645.	0.7	98
4	Optimal Hankel Norm Model Reductions and Wiener-Hopf Factorization I: The Canonical Case. SIAM Journal on Control and Optimization, 1987, 25, 362-382.	1.1	93
5	Stability of invariant maximal semidefinite subspaces. I. Linear Algebra and Its Applications, 1984, 62, 51-86.	0.4	55
6	Minimal factorization of selfadjoint rational matrix functions. Integral Equations and Operator Theory, 1982, 5, 850-869.	0.4	51
7	Hermitian solutions of the discrete algebraic Riccati equation. International Journal of Control, 1986, 44, 777-802.	1.2	51
8	Linear Quadratic Problems with Indefinite Cost for Discrete Time Systems. SIAM Journal on Matrix Analysis and Applications, 1993, 14, 776-797.	0.7	48
9	On parameter dependence of solutions of algebraic riccati equations. Mathematics of Control, Signals, and Systems, 1988, 1, 269-284.	1.4	26
10	A State Space Approach to Canonical Factorization with Applications. , 2010, , .		26
11	Explicit formulas for Hankel norm approximations of infinite-dimensional systems. Integral Equations and Operator Theory, 1989, 12, 455-469.	0.4	25
12	Factorizations of and extensions to J-unitary rational matrix functions on the unit circle. Integral Equations and Operator Theory, 1992, 15, 262-300.	0.4	25
13	Eigenvalue perturbation theory of symplectic, orthogonal, and unitary matrices under generic structured rank one perturbations. BIT Numerical Mathematics, 2014, 54, 219-255.	1.0	25
14	Jordan forms of real and complex matrices under rank one perturbations. Operators and Matrices, 2013, , 381-398.	0.1	25
15	Stability of invariant maximal semidefinite subspaces. II. applications: Self-adjoint rational matrix functions, Algebraic Riccati equations. Linear Algebra and Its Applications, 1984, 63, 133-173.	0.4	24
16	Extension of Isometries in Finite-Dimensional Indefinite Scalar Product Spaces and Polar Decompositions. SIAM Journal on Matrix Analysis and Applications, 1997, 18, 752-774.	0.7	22
17	A Perturbation Analysis for Nonlinear Selfadjoint Operator Equations. SIAM Journal on Matrix Analysis and Applications, 2006, 28, 89-104.	0.7	22
18	Schur complements and state space realizations. Linear Algebra and Its Applications, 2005, 399, 203-224.	0.4	19

#	ARTICLE	IF	CITATIONS
19	Dissipative matrices and invariant maximal semidefinite subspaces. <i>Linear Algebra and Its Applications</i> , 1994, 212-213, 169-214.	0.4	18
20	Errata for: Polar decomposition in finite dimensional indefinite scalar product spaces: Special cases and applications. <i>Integral Equations and Operator Theory</i> , 1997, 27, 497-501.	0.4	17
21	On symmetric factorizations of rational matrix functions. <i>Linear and Multilinear Algebra</i> , 1991, 29, 243-261.	0.5	16
22	Nonnegative solutions of algebraic Riccati equations. <i>Linear Algebra and Its Applications</i> , 1997, 261, 317-352.	0.4	14
23	The Non-symmetric Discrete Algebraic Riccati Equation and Canonical Factorization of Rational Matrix Functions on the Unit Circle. <i>Integral Equations and Operator Theory</i> , 2010, 66, 215-229.	0.4	14
24	Stability of neutral invariant subspaces in indefinite inner products and stable symmetric factorizations. <i>Integral Equations and Operator Theory</i> , 1983, 6, 536-571.	0.4	13
25	Minimal Square Spectral Factors via Triples. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2001, 22, 1222-1244.	0.7	13
26	Basic classes of matrices with respect to quaternionic indefinite inner product spaces. <i>Linear Algebra and Its Applications</i> , 2006, 416, 242-269.	0.4	13
27	Inverse Spectral Problems for Regular Improper Rational Matrix Functions. <i>Operator Theory: Advances and Applications</i> , 1988, , 123-173.	0.2	13
28	Regular rational matrix functions with prescribed null and pole data except at infinity. <i>Linear Algebra and Its Applications</i> , 1990, 137-138, 387-412.	0.4	12
29	Rank one perturbations of H -positive real matrices. <i>Linear Algebra and Its Applications</i> , 2013, 439, 653-674.	0.4	12
30	An existence and monotonicity theorem for the discrete algebraic matrix Riccati equation. <i>Linear and Multilinear Algebra</i> , 1987, 20, 353-361.	0.5	11
31	Necessary and sufficient conditions for existence of J-spectral factorization for para-Hermitian rational matrix functions. <i>Automatica</i> , 2003, 39, 1935-1939.	3.0	11
32	Interpolation Problems for Rational Matrix Functions with Incomplete Data and Wiener-Hopf Factorization. <i>Operator Theory: Advances and Applications</i> , 1988, , 73-108.	0.2	11
33	Hankel Norm Approximation for Infinite Dimensional Systems and Wiener-Hopf Factorization. , 1987, , 57-69.		11
34	Right Invertible Multiplication Operators and Stable Rational Matrix Solutions to an Associate Bezout Equation, I: The Least Squares Solution. <i>Integral Equations and Operator Theory</i> , 2011, 70, 395-418.	0.4	10
35	A singular M-matrix perturbed by a nonnegative rank one matrix has positive principal minors; is it D-stable?. <i>Linear Algebra and Its Applications</i> , 2014, 457, 191-208.	0.4	10
36	Stable real invariant semidefinite subspaces and stable factorizations of symmetric rational matrix functions. <i>Linear and Multilinear Algebra</i> , 1987, 22, 25-55.	0.5	9

#	ARTICLE	IF	CITATIONS
37	Stability index of invariant subspaces of matrices. <i>Linear and Multilinear Algebra</i> , 1993, 36, 27-39.	0.5	9
38	Minimal nonsquare spectral factors. <i>Linear Algebra and Its Applications</i> , 2002, 351-352, 553-565.	0.4	9
39	Nonsquare spectral factors via factorizations of a unitary function. <i>Linear Algebra and Its Applications</i> , 2002, 351-352, 567-583.	0.4	9
40	Generalized canonical factorization of matrix and operator functions with definite hermitian part. <i>Integral Equations and Operator Theory</i> , 1992, 15, 673-696.	0.4	8
41	J-pseudo-spectral and J-inner-pseudo-outer factorizations for matrix polynomials. <i>Integral Equations and Operator Theory</i> , 1997, 29, 23-51.	0.4	8
42	On self-adjoint matrix polynomials with constant signature. <i>Linear Algebra and Its Applications</i> , 1997, 259, 133-153.	0.4	8
43	Polar decompositions and related classes of operators in spaces \hat{H}^{∞} . <i>Integral Equations and Operator Theory</i> , 2002, 44, 50-70.	0.4	8
44	A New Inertia Theorem for Stein Equations, Inertia of Invertible Hermitian Block Toeplitz Matrices and Matrix Orthogonal Polynomials. <i>Integral Equations and Operator Theory</i> , 2003, 47, 339-360.	0.4	8
45	Approximation of Solutions of Riccati Equations. <i>SIAM Journal on Control and Optimization</i> , 2005, 44, 1419-1435.	1.1	8
46	LQ Control for Coordinated Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 851-862.	3.6	8
47	Matrix Polynomials with prescribed zero structure in the finite complex plane. <i>Operator Theory: Advances and Applications</i> , 1991, , 241-266.	0.2	8
48	J-Symmetric Factorizations and Algebraic Riccati Equations. , 2001, , 319-360.		8
49	Stable Solutions of Real Algebraic Matrix Riccati Equations. <i>SIAM Journal on Control and Optimization</i> , 1992, 30, 63-81.	1.1	7
50	On pseudo-canonical factorization of rational matrix functions. <i>Indagationes Mathematicae</i> , 1993, 4, 51-63.	0.2	7
51	Symmetric Wiener-Hopf Factorization of Selfadjoint Rational Matrix Functions and Realization. , 1986, , 373-409.		6
52	Positive real matrices in indefinite inner product spaces and invariant maximal semidefinite subspaces. <i>Linear Algebra and Its Applications</i> , 2007, 424, 346-370.	0.4	6
53	Right invertible multiplication operators and stable rational matrix solutions to an associate Bezout equation, II: Description of all solutions. <i>Operators and Matrices</i> , 2012, , 833-857.	0.1	6
54	Stability of solutions of the operator differential equation in transport theory. <i>Integral Equations and Operator Theory</i> , 1985, 8, 75-118.	0.4	5

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55	Rate of stability of solutions of matrix polynomial and quadratic equations. <i>Integral Equations and Operator Theory</i> , 1997, 27, 71-102.	0.4	5
56	Existence of minimal nonsquare J-symmetric factorizations for self-adjoint rational matrix functions. <i>Linear Algebra and Its Applications</i> , 2004, 379, 159-178.	0.4	5
57	Analysis of Spectral Points of the Operators $T^* T$ and TT^* in a Krein Space. <i>Integral Equations and Operator Theory</i> , 2009, 63, 263-280.	0.4	5
58	Local Definitizability of $T^* T$ and TT^* . <i>Integral Equations and Operator Theory</i> , 2011, 71, 491-508.	0.4	5
59	Construction and minimality of coordinated linear systems. <i>Linear Algebra and Its Applications</i> , 2014, 452, 202-236.	0.4	5
60	Equivalence after extension for compact operators on Banach spaces. <i>Journal of Mathematical Analysis and Applications</i> , 2015, 431, 136-149.	0.5	5
61	Semidefinite perturbations of analytic Hermitian matrix functions. <i>Integral Equations and Operator Theory</i> , 1989, 12, 739-745.	0.4	4
62	On Stability of Invariant Subspaces of Matrices. <i>American Mathematical Monthly</i> , 1990, 97, 809.	0.2	4
63	Unitary solutions of a class of algebraic Riccati equations and factorization. <i>Linear Algebra and Its Applications</i> , 1992, 162-164, 521-540.	0.4	4
64	Wiener-Hopf Factorization of Transfer Functions of Extended Pritchard-Salamon Realizations. <i>Mathematische Nachrichten</i> , 1998, 196, 71-102.	0.4	4
65	Wiener-Hopf indices of unitary functions on the unit circle in terms of realizations and related results on Toeplitz operators. <i>Indagationes Mathematicae</i> , 2017, 28, 694-710.	0.2	4
66	A Toeplitz-Like Operator with Rational Symbol Having Poles on the Unit Circle III: The Adjoint. <i>Integral Equations and Operator Theory</i> , 2019, 91, 1.	0.4	4
67	The Algebraic Matrix Riccati Equation. , 1984, , 351-381.		4
68	Local minimal factorizations of rational matrix functions in terms of null and pole data: Formulas for factors. <i>Integral Equations and Operator Theory</i> , 1993, 16, 98-130.	0.4	3
69	Weighting operator patterns of Pritchard-Salamon realizations. <i>Integral Equations and Operator Theory</i> , 1997, 27, 48-70.	0.4	3
70	Real Hamiltonian Polar Decompositions. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2001, 22, 1263-1273.	0.7	3
71	LU- versus UL-Factorization of Integral Operators with Semi-Separable Kernel. <i>Integral Equations and Operator Theory</i> , 2004, 50, 549-558.	0.4	3
72	Equivalence after extension and Schur coupling coincide for inessential operators. <i>Indagationes Mathematicae</i> , 2018, 29, 1350-1361.	0.2	3

#	ARTICLE	IF	CITATIONS
73	A Toeplitz-Like Operator with Rational Matrix Symbol Having Poles on the Unit Circle: Fredholm Properties. Complex Analysis and Operator Theory, 2021, 15, 1.	0.3	3
74	Global Properties of Eigenvalues of Parametric Rank One Perturbations for Unstructured and Structured Matrices. Complex Analysis and Operator Theory, 2021, 15, 1.	0.3	3
75	A Toeplitz-like operator with rational symbol having poles on the unit circle I: Fredholm properties. Operator Theory: Advances and Applications, 2018, , 239-268.	0.2	3
76	A Toeplitz-like Operator with Rational Symbol Having Poles on the Unit Circle II: The Spectrum. Operator Theory: Advances and Applications, 2019, , 133-154.	0.2	3
77	A Class of Robustness Problems in Matrix Analysis. , 2002, , 337-383.		3
78	Stability of Invariant Lagrangian Subspaces II. , 1989, , 391-425.		3
79	On the relation between $XX^{\hat{\alpha}}$ and $X^{\hat{\alpha}}X$ in an indefinite inner product space. Operators and Matrices, 2007, , 181-197.	0.1	3
80	A canonical form for H-unitary matrices. Operators and Matrices, 2016, , 739-783.	0.1	3
81	Rational Matrix Solutions of a Bezout Type Equation on the Half-plane. Operator Theory: Advances and Applications, 2013, , 145-160.	0.2	3
82	Invariant Maximal Positive Subspaces and Polar Decompositions. Integral Equations and Operator Theory, 2006, 56, 83-91.	0.4	2
83	On the Index of Conditional Stability of Stable Invariant Lagrangian Subspaces. SIAM Journal on Matrix Analysis and Applications, 2008, 29, 1181-1190.	0.7	2
84	The Pair of Operators $\{T^{\stackrel{!}{*}}\}$ and $\{T^{\stackrel{!}{*}}\}$: J-Dilations and Canonical Forms. Integral Equations and Operator Theory, 2010, 68, 313-335.	0.4	2
85	Asymptotics of the Smallest Singular Value of a Class of Toeplitz-Generated Matrices and Related Finite Rank Perturbations. Integral Equations and Operator Theory, 2013, 77, 385-396.	0.4	2
86	Distributed state estimation with communication of observations. Linear Algebra and Its Applications, 2013, 439, 600-612.	0.4	2
87	Asymptotics of the Smallest Singular Value of a Class of Toeplitz-generated Matrices II. Integral Equations and Operator Theory, 2014, 79, 243-253.	0.4	2
88	Simple forms and invariant subspaces of H-expansive matrices. Linear Algebra and Its Applications, 2015, 470, 300-340.	0.4	2
89	Equivalence after extension and Schur coupling do not coincide on essentially incomparable Banach spaces. Bulletin of the London Mathematical Society, 2019, 51, 1005-1014.	0.4	2
90	The Discrete Algebraic Riccati Equation and Hermitian Block Toeplitz Matrices. , 2012, , 495-512.		2

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91	Stability of Pseudospectral Factorizations. , 2001, , 359-383.		2
92	Low Rank Perturbations of Quaternion Matrices. Electronic Journal of Linear Algebra, 0, 32, 514-530.	0.6	2
93	Coordinated Linear Systems. Lecture Notes in Control and Information Sciences, 2015, , 113-121.	0.6	2
94	Classes of plus matrices in finite dimensional indefinite scalar product spaces. Integral Equations and Operator Theory, 1998, 30, 432-451.	0.4	1
95	Characterization of integral operators with semi-separable kernels with symmetries. Journal of Functional Analysis, 2005, 219, 255-284.	0.7	1
96	A peculiar permutation phenomenon arising from the singular vector entries of a special class of Toeplitz matrices. Linear Algebra and Its Applications, 2014, 459, 368-383.	0.4	1
97	mth roots of H-selfadjoint matrices. Linear Algebra and Its Applications, 2021, 610, 804-826.	0.4	1
98	Norm bounds for Volterra integral operators and time-varying linear systems with finite horizon. , 1998, , 275-290.		1
99	Preface to the 13th ILAS Conference Proceedings, Amsterdam 2006. Linear Algebra and Its Applications, 2008, 429, 949-950.	0.4	0
100	Equivalence After Extension and Schur Coupling for Relatively Regular Operators. Integral Equations and Operator Theory, 2020, 92, 1.	0.4	0
101	An alternative canonical form for quaternionic H-unitary matrices. Linear Algebra and Its Applications, 2021, 623, 282-298.	0.4	0
102	mth roots of H-selfadjoint matrices over the quaternions. Electronic Journal of Linear Algebra, 0, 37, 492-503.	0.6	0
103	A note on a conjecture concerning rank one perturbations of singular M-matrices. Quaestiones Mathematicae, 0, , 1-9.	0.2	0
104	The Algebraic Riccati Equation and Its Role in Indefinite Inner Product Spaces. , 2014, , 1-17.		0
105	Distributed State Estimation with Communication of Observations. Lecture Notes in Control and Information Sciences, 2015, , 223-228.	0.6	0
106	Stability in Matrix Analysis Problems. , 2015, , 349-376.		0
107	The Algebraic Riccati Equation and Its Role in Indefinite Inner Product Spaces. , 2015, , 451-469.		0
108	A note on inner-outer factorization of wide matrix-valued functions. Operator Theory: Advances and Applications, 2018, , 201-214.	0.2	0

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109	Canonical form for H-symplectic matrices. <i>Operator Theory: Advances and Applications</i> , 2018, , 269-290.	0.2	0
110	Polar decompositions of quaternion matrices in indefinite inner product spaces. <i>Electronic Journal of Linear Algebra</i> , 0, 37, 659-670.	0.6	0