

D Steven Mackey

List of Publications by Year in descending order

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28
papers

1,259
citations

393982

19
h-index

610482

24
g-index

28
all docs

28
docs citations

28
times ranked

340
citing authors

#	ARTICLE	IF	CITATIONS
1	Structured Polynomial Eigenvalue Problems: Good Vibrations from Good Linearizations. SIAM Journal on Matrix Analysis and Applications, 2006, 28, 1029-1051.	0.7	216
2	Vector Spaces of Linearizations for Matrix Polynomials. SIAM Journal on Matrix Analysis and Applications, 2006, 28, 971-1004.	0.7	212
3	Symmetric Linearizations for Matrix Polynomials. SIAM Journal on Matrix Analysis and Applications, 2007, 29, 143-159.	0.7	93
4	The Conditioning of Linearizations of Matrix Polynomials. SIAM Journal on Matrix Analysis and Applications, 2006, 28, 1005-1028.	0.7	83
5	Fiedler Companion Linearizations and the Recovery of Minimal Indices. SIAM Journal on Matrix Analysis and Applications, 2010, 31, 2181-2204.	0.7	75
6	Spectral equivalence of matrix polynomials and the Index Sum Theorem. Linear Algebra and Its Applications, 2014, 459, 264-333.	0.4	70
7	Structured Factorizations in Scalar Product Spaces. SIAM Journal on Matrix Analysis and Applications, 2005, 27, 821-850.	0.7	53
8	Functions Preserving Matrix Groups and Iterations for the Matrix Square Root. SIAM Journal on Matrix Analysis and Applications, 2005, 26, 849-877.	0.7	44
9	Hamiltonian square roots of skew-Hamiltonian matrices. Linear Algebra and Its Applications, 1999, 287, 125-159.	0.4	42
10	Scaling, sensitivity and stability in the numerical solution of quadratic eigenvalue problems. International Journal for Numerical Methods in Engineering, 2008, 73, 344-360.	1.5	41
11	Numerical methods for palindromic eigenvalue problems: Computing the anti-triangular Schur form. Numerical Linear Algebra With Applications, 2009, 16, 63-86.	0.9	40
12	Möbius transformations of matrix polynomials. Linear Algebra and Its Applications, 2015, 470, 120-184.	0.4	36
13	Fiedler companion linearizations for rectangular matrix polynomials. Linear Algebra and Its Applications, 2012, 437, 957-991.	0.4	35
14	Jordan structures of alternating matrix polynomials. Linear Algebra and Its Applications, 2010, 432, 867-891.	0.4	33
15	Palindromic companion forms for matrix polynomials of odd degree. Journal of Computational and Applied Mathematics, 2011, 236, 1464-1480.	1.1	32
16	Computing the Polar Decomposition and the Matrix Sign Decomposition in Matrix Groups. SIAM Journal on Matrix Analysis and Applications, 2004, 25, 1178-1192.	0.7	30
17	Definite Matrix Polynomials and their Linearization by Definite Pencils. SIAM Journal on Matrix Analysis and Applications, 2009, 31, 478-502.	0.7	27
18	Skew-symmetric matrix polynomials and their Smith forms. Linear Algebra and Its Applications, 2013, 438, 4625-4653.	0.4	26

#	ARTICLE	IF	CITATIONS
19	Structured Mapping Problems for Matrices Associated with Scalar Products. Part I: Lie and Jordan Algebras. SIAM Journal on Matrix Analysis and Applications, 2008, 29, 1389-1410.	0.7	23
20	Linearizations of matrix polynomials in Bernstein bases. Linear Algebra and Its Applications, 2016, 501, 162-197.	0.4	11
21	Polynomial zigzag matrices, dual minimal bases, and the realization of completely singular polynomials. Linear Algebra and Its Applications, 2016, 488, 460-504.	0.4	10
22	The continuing influence of Fiedler's work on companion matrices. Linear Algebra and Its Applications, 2013, 439, 810-817.	0.4	9
23	Polynomial Eigenvalue Problems: Theory, Computation, and Structure. , 2015, , 319-348.		8
24	Linearizations of matrix polynomials in Newton bases. Linear Algebra and Its Applications, 2018, 556, 1-45.	0.4	4
25	Minimal indices and minimal bases via filtrations. Electronic Journal of Linear Algebra, 0, 37, 276-294.	0.6	3
26	Van Dooren's Index Sum Theorem and Rational Matrices with Prescribed Structural Data. SIAM Journal on Matrix Analysis and Applications, 2019, 40, 720-738.	0.7	2
27	Quadratic realizability of palindromic matrix polynomials. Linear Algebra and Its Applications, 2019, 567, 202-262.	0.4	1
28	Quadratic realizability of palindromic matrix polynomials: the real case. Linear and Multilinear Algebra, 0, , 1-45.	0.5	0