

Froilan M Dopico

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11286910/publications.pdf>

Version: 2024-02-01

46
papers

835
citations

430442

18
h-index

525886

27
g-index

46
all docs

46
docs citations

46
times ranked

223
citing authors

#	ARTICLE	IF	CITATIONS
1	Root polynomials and their role in the theory of matrix polynomials. <i>Linear Algebra and Its Applications</i> , 2020, 584, 37-78.	0.4	11
2	Local linearizations of rational matrices with application to rational approximations of nonlinear eigenvalue problems. <i>Linear Algebra and Its Applications</i> , 2020, 604, 441-475.	0.4	9
3	Generic Symmetric Matrix Polynomials with Bounded Rank and Fixed Odd Grade. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2020, 41, 1033-1058.	0.7	2
4	Van Dooren's Index Sum Theorem and Rational Matrices with Prescribed Structural Data. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2019, 40, 720-738.	0.7	2
5	Conditioning and backward errors of eigenvalues of homogeneous matrix polynomials under Möbius transformations. <i>Mathematics of Computation</i> , 2019, 89, 767-805.	1.1	1
6	Robustness and perturbations of minimal bases II: The case with given row degrees. <i>Linear Algebra and Its Applications</i> , 2019, 576, 268-300.	0.4	0
7	Quadratic realizability of palindromic matrix polynomials. <i>Linear Algebra and Its Applications</i> , 2019, 567, 202-262.	0.4	1
8	A compact rational Krylov method for large-scale rational eigenvalue problems. <i>Numerical Linear Algebra With Applications</i> , 2019, 26, e2214.	0.9	6
9	Strong linearizations of rational matrices with polynomial part expressed in an orthogonal basis. <i>Linear Algebra and Its Applications</i> , 2019, 570, 1-45.	0.4	9
10	Block minimal bases andifications of matrix polynomials. <i>Linear Algebra and Its Applications</i> , 2019, 562, 163-204.	0.4	3
11	Robustness and perturbations of minimal bases. <i>Linear Algebra and Its Applications</i> , 2018, 542, 246-281.	0.4	7
12	Generic skew-symmetric matrix polynomials with fixed rank and fixed odd grade. <i>Linear Algebra and Its Applications</i> , 2018, 536, 1-18.	0.4	8
13	Structured backward error analysis of linearized structured polynomial eigenvalue problems. <i>Mathematics of Computation</i> , 2018, 88, 1189-1228.	1.1	10
14	Block Kronecker linearizations of matrix polynomials and their backward errors. <i>Numerische Mathematik</i> , 2018, 140, 373-426.	0.9	37
15	Eigenvalue condition numbers and pseudospectra of Fiedler matrices. <i>Calcolo</i> , 2017, 54, 319-365.	0.6	2
16	Linearizations of Hermitian Matrix Polynomials Preserving the Sign Characteristic. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2017, 38, 249-272.	0.7	7
17	An explicit description of the irreducible components of the set of matrix pencils with bounded normal rank. <i>Linear Algebra and Its Applications</i> , 2017, 520, 80-103.	0.4	3
18	Generic complete eigenstructures for sets of matrix polynomials with bounded rank and degree. <i>Linear Algebra and Its Applications</i> , 2017, 535, 213-230.	0.4	11

#	ARTICLE	IF	CITATIONS
37	A Note on Generic Kronecker Orbits of Matrix Pencils with Fixed Rank. SIAM Journal on Matrix Analysis and Applications, 2008, 30, 491-496.	0.7	15
38	Low Rank Perturbation of Weierstrass Structure. SIAM Journal on Matrix Analysis and Applications, 2008, 30, 538-547.	0.7	35
39	Low Rank Perturbation of Kronecker Structures without Full Rank. SIAM Journal on Matrix Analysis and Applications, 2007, 29, 496-529.	0.7	35
40	Accurate Symmetric Rank Revealing and Eigendecompositions of Symmetric Structured Matrices. SIAM Journal on Matrix Analysis and Applications, 2006, 28, 1126-1156.	0.7	26
41	A Note on Multiplicative Backward Errors of Accurate SVD Algorithms. SIAM Journal on Matrix Analysis and Applications, 2004, 25, 1021-1031.	0.7	5
42	An Orthogonal High Relative Accuracy Algorithm for the Symmetric Eigenproblem. SIAM Journal on Matrix Analysis and Applications, 2003, 25, 301-351.	0.7	29
43	Low Rank Perturbation of Jordan Structure. SIAM Journal on Matrix Analysis and Applications, 2003, 25, 495-506.	0.7	51
44	Perturbation Theory for Simultaneous Bases of Singular Subspaces. BIT Numerical Mathematics, 2002, 42, 84-109.	1.0	1
45	A Note on $\sin \hat{\theta}$ Theorems for Singular Subspace Variations. BIT Numerical Mathematics, 2000, 40, 395-403.	1.0	20
46	Backward stability of polynomial root-finding using Fiedler companion matrices. IMA Journal of Numerical Analysis, 0, , dru057.	1.5	7