Vanni Noferini

List of Publications by Year
in descending order

36	366	758635 12	887659 17
papers	citations	h-index	g-index

36	36	36	188
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Locating the Eigenvalues of Matrix Polynomials. SIAM Journal on Matrix Analysis and Applications, 2013, 34, 1708-1727.	0.7	39
2	Vector Spaces of Linearizations for Matrix Polynomials: A Bivariate Polynomial Approach. SIAM Journal on Matrix Analysis and Applications, 2017, 38, 1-29.	0.7	22
3	Non-backtracking walk centrality for directed networks. Journal of Complex Networks, 2018, 6, 54-78.	1.1	21
4	Solving polynomial eigenvalue problems by means of the Ehrlichâ€“Aberth method. Linear Algebra and Its Applications, 2013, 439, 1130-1149.	0.4	20
5	Computing the common zeros of two bivariate functions via BÃ©zout resultants. Numerische Mathematik, 2015, 129, 181-209.	0.9	19
6	The Deformed Graph Laplacian and Its Applications to Network Centrality Analysis. SIAM Journal on Matrix Analysis and Applications, 2018, 39, 310-341.	0.7	19
7	Algebraic arctic curves in the domain-wall six-vertex model. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 195201.	0.7	16
8	Tropical Roots as Approximations to Eigenvalues of Matrix Polynomials. SIAM Journal on Matrix Analysis and Applications, 2015, 36, 138-157.	0.7	16
9	Fiedler-comrade and Fiedler–Chebyshev pencils. SIAM Journal on Matrix Analysis and Applications, 2016, 37, 1600-1624.	0.7	16
10	A Formula for the FrÃ©chet Derivative of a Generalized Matrix Function. SIAM Journal on Matrix Analysis and Applications, 2017, 38, 434-457.	0.7	16
11	The behavior of the complete eigenstructure of a polynomial matrix under a generic rational transformation. Electronic Journal of Linear Algebra, 0, 23, .	0.6	16
12	On the stability of computing polynomial roots via confederate linearizations. Mathematics of Computation, 2015, 85, 2391-2425.	1.1	14
13	An algorithm to compute the polar decomposition of a 3 Ã— 3 matrix. Numerical Algorithms, 2016, 73, 349-369.	1.1	14
14	On the sign characteristics of Hermitian matrix polynomials. Linear Algebra and Its Applications, 2016, 511, 328-364.	0.4	13
15	Duality of matrix pencils, Wong chains and linearizations. Linear Algebra and Its Applications, 2015, 471, 730-767.	0.4	11
16	Root polynomials and their role in the theory of matrix polynomials. Linear Algebra and Its Applications, 2020, 584, 37-78.	0.4	11
17	The Ehrlichâ€“Aberth method for palindromic matrix polynomials represented in the Dickson basis. Linear Algebra and Its Applications, 2013, 438, 1645-1666.	0.4	9
18	Chebyshev rootfinding via computing eigenvalues of colleague matrices: when is it stable?. Mathematics of Computation, 2016, 86, 1741-1767.	1.1	9

#	Article	IF	Citations
19	On the exponential generating function for non-backtracking walks. Linear Algebra and Its Applications, 2018, 556, 381-399.	0.4	9
20	Wilkinsonâ€™s Bus: Weak Condition Numbers, with an Application to Singular Polynomial Eigenproblems. Foundations of Computational Mathematics, 2020, 20, 1439-1473.	1.5	9
21	Numerical Instability of Resultant Methods for Multidimensional Rootfinding. SIAM Journal on Numerical Analysis, 2016, 54, 719-743.	1.1	7
22	Non-backtracking PageRank. Journal of Scientific Computing, 2019, 80, 1419-1437.	1.1	6
23	The Structured Condition Number of a Differentiable Map between Matrix Manifolds, with Applications. SIAM Journal on Matrix Analysis and Applications, 2019, 40, 774-799.	0.7	6
24	Non-Backtracking Alternating Walks. SIAM Journal on Applied Mathematics, 2019, 79, 781-801.	0.8	6
25	Beyond non-backtracking: non-cycling network centrality measures. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20190653.	1.0	6
26	Modifications of Newtonâ€™s method for even-grade palindromic polynomials and other twined polynomials. Numerical Algorithms, 2012, 61, 315-329.	1.1	3
27	Inertia laws and localization of real eigenvalues for generalized indefinite eigenvalue problems. Linear Algebra and Its Applications, 2019, 578, 272-296.	0.4	3
28	A Theory for Backtrack-Downweighted Walks. SIAM Journal on Matrix Analysis and Applications, 2021, 42, 1229-1247.	0.7	2
29	Nearest $$varOmega $$-stable matrix via Riemannian optimization. Numerische Mathematik, 2021, 148, 817-851.	0.9	2
30	Matrices in companion rings, Smith forms, and the homology of 3-dimensional Brieskorn manifolds. Journal of Algebra, 2021, 587, 1-19.	0.4	2
31	The application of the Ehrlich-Aberth method to structured polynomial eigenvalue problems. Proceedings in Applied Mathematics and Mechanics, 2011, 11, 919-922.	0.2	1
32	When is a Hamiltonian matrix the commutator of two skew-Hamiltonian matrices?. Linear and Multilinear Algebra, 2015, 63, 1531-1552.	0.5	1
33	The Limit Empirical Spectral Distribution of Gaussian Monic Complex Matrix Polynomials. Journal of Theoretical Probability, 0, , 1.	0.4	1
34	Cyclically presented groups as Labelled Oriented Graph groups. Journal of Algebra, 2022, 605, 179-198.	0.4	1
35	FlandersÊ¼ theorem for many matrices under commutativity assumptions. Linear Algebra and Its Applications, 2014, 443, 120-138.	0.4	0
36	The limit empirical spectral distribution of complex matrix polynomials. Random Matrices: Theory and Application, 0, , 2250023.	0.5	0