Michela Redivo-Zaglia

List of Publications by Year
in descending order

52 papers	876 citations	471509 17 h-index	526287 27 g-index
56 all docs	56 docs citations	56 times ranked	328 citing authors

#	Article	IF	Citations
1	Avoiding breakdown and near-breakdown in Lanczos type algorithms. Numerical Algorithms, 1991, 1, 261-284.	1.9	77
2	Multi-parameter regularization techniques for ill-conditioned linear systems. Numerische Mathematik, 2003, 94, 203-228.	1.9	76
3	Quasi-orthogonality with applications to some families of classical orthogonal polynomials. Applied Numerical Mathematics, 2004, 48, 157-168.	2.1	60
4	The PageRank Vector: Properties, Computation, Approximation, and Acceleration. SIAM Journal on Matrix Analysis and Applications, 2006, 28, 551-575.	1.4	47
5	Shanks Sequence Transformations and Anderson Acceleration. SIAM Review, 2018, 60, 646-669.	9.5	38
6	Extrapolation methods for PageRank computations. Comptes Rendus Mathematique, 2005, 340, 393-397.	0.3	31
7	A new presentation of orthogonal polynomials with applications to their computation. Numerical Algorithms, 1991, 1, 207-221.	1.9	30
8	Extrapolation methods. Applied Numerical Mathematics, 1994, 15, 123-131.	2.1	29
9	Treatment of near-breakdown in the CGS algorithm. Numerical Algorithms, 1994, 7, 33-73.	1.9	29
10	Look-ahead in Bi-CGSTAB and other product methods for linear systems. BIT Numerical Mathematics, 1995, 35, 169-201.	2.0	29
11	Rational extrapolation for the PageRank vector. Mathematics of Computation, 2008, 77, 1585-1598.	2.1	26
12	New representations of PadÃ©, PadÃ©-type, and partial PadÃ© approximants. Journal of Computational and Applied Mathematics, 2015, 284, 69-77.	2.0	25
13	The genesis and early developments of Aitkenâ€™s process, Shanksâ€™ transformation, the Îµâ€“algorithm, and related fixed point methods. Numerical Algorithms, 2019, 80, 11-133.	1.9	25
14	A general extrapolation procedure revisited. Advances in Computational Mathematics, 1994, 2, 461-477.	1.6	23
15	The Simplified Topological $varepsilon$-Algorithms for Accelerating Sequences in a Vector Space. SIAM Journal of Scientific Computing, 2014, 36, A2227-A2247.	2.8	21
16	Addendum to â€œAvoiding breakdown and near-breakdown in Lanczos type algorithmsâ€• Numerical Algorithms, 1992, 2, 133-136.	1.9	20
17	A Schur complement approach to a general extrapolation algorithm. Linear Algebra and Its Applications, 2003, 368, 279-301.	0.9	19
18	Multistep $?$â€“algorithm, Shanksâ€™ transformation, and the Lotkaâ€“Volterra system by Hirotaâ€™s method. Mathematics of Computation, 2012, 81, 1527-1549.	2.1	17

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19	Vector and matrix sequence transformations based on biorthogonality. Applied Numerical Mathematics, 1996, 21, 353-373.	2.1	16
20	Transpose-free Lanczos-type algorithms for nonsymmetric linear systems. Numerical Algorithms, 1998, 17, 67-103.	1.9	15
21	Convergence acceleration of Kaczmarzâ€™s method. Journal of Engineering Mathematics, 2015, 93, 3-19.	1.2	15
22	Shifted and extrapolated power methods for tensor ell^p-eigenpairs. Electronic Transactions on Numerical Analysis, 0, 53, 1-27.	0.0	15
23	The simplified topological Îµ-algorithms: software and applications. Numerical Algorithms, 2017, 74, 1237-1260.	1.9	14
24	Extrapolation methods for fixedâ€point multilinear PageRank computations. Numerical Linear Algebra With Applications, 2020, 27, e2280.	1.6	14
25	Construction of extrapolation processes. Applied Numerical Mathematics, 1991, 8, 11-23.	2.1	13
26	Generalizations of Aitken's process for accelerating the convergence of sequences. Computational and Applied Mathematics, 2007, 26, .	1.3	13
27	smt: a Matlab toolbox for structured matrices. Numerical Algorithms, 2012, 59, 639-659.	1.9	13
28	PadÃ©â€“type rational and barycentric interpolation. Numerische Mathematik, 2013, 125, 89-113.	1.9	12
29	On the kernel of sequence transformations. Applied Numerical Mathematics, 1994, 16, 239-244.	2.1	10
30	Extrapolation methods for the numerical solution of nonlinear Fredholm integral equations. Journal of Integral Equations and Applications, 2019, 31, .	0.6	10
31	Pseudo-Schur complements and their properties. Applied Numerical Mathematics, 2004, 50, 511-519.	2.1	9
32	The Reverse Bordering Method. SIAM Journal on Matrix Analysis and Applications, 1994, 15, 922-937.	1.4	8
33	A review of formal orthogonality in Lanczos-based methods. Journal of Computational and Applied Mathematics, 2002, 140, 81-98.	2.0	8
34	The matrix and polynomial approaches to Lanczos-type algorithms. Journal of Computational and Applied Mathematics, 2000, 123, 241-260.	2.0	7
35	New vector sequence transformations. Linear Algebra and Its Applications, 2004, 389, 189-213.	0.9	7
36	A rational Arnoldi approach for ill-conditioned linear systems. Journal of Computational and Applied Mathematics, 2012, 236, 2063-2077.	2.0	6

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37	A review of vector convergence acceleration methods, with applications to linear algebra problems. International Journal of Quantum Chemistry, 2009, 109, 1631-1639.	2.0	5
38	Extensions of Drummond's process for convergence acceleration. Applied Numerical Mathematics, 2010, 60, 1231-1241.	2.1	5
39	A look-ahead strategy for the implementation of some old and new extrapolation methods. Numerical Algorithms, 1996, 11, 35-55.	1.9	4
40	Zeros of quadratic quasi-orthogonal order 2 polynomials. Applied Numerical Mathematics, 2019, 135, 143-145.	2.1	4
41	The Legacy of Peter Wynn. Mathematics, 2021, 9, 1240.	2.2	4
42	Shanks and Anderson-type acceleration techniques for systems of nonlinear equations. IMA Journal of Numerical Analysis, 2022, 42, 3058-3093.	2.9	4
43	Block Projection Methods for Linear Systems. Numerical Algorithms, 2002, 29, 33-43.	1.9	3
44	Extended procedures for extrapolation to the limit. Journal of Computational and Applied Mathematics, 2010, 235, 631-645.	2.0	3
45	Shanks function transformations in a vector space. Applied Numerical Mathematics, 2017, 116, 57-63.	2.1	3
46	Variations on Lanczos' tridiagonalization process. Calcolo, 2000, 37, 159-179.	1.1	2
47	A Survey of Shanksâ€™ Extrapolation Methods and Their Applications. Computational Mathematics and Mathematical Physics, 2021, 61, 699-718.	0.8	2
48	Matrix Shanks Transformations. Electronic Journal of Linear Algebra, 0, 35, 248-265.	0.6	2
49	Extrapolation and prediction of sequences in a vector space. Journal of Computational and Applied Mathematics, 2022, 409, 114164.	2.0	2
50	Some unusual results on extrapolation methods. Numerical Algorithms, 2020, 84, 1241-1264.	1.9	0
51	The Works of Peter Wynn. , 2020, , 85-168.		0
52	Commentaries and Further Developments. , 2020, , 169-215.		0