List of Publications by Year
in descending order

51 papers	**979** citations	567144 **15** h-index	454834 **30** g-index
51 all docs	**51** docs citations	**51** times ranked	**374** citing authors

#	Article	IF	Citations
1	Global FOM and GMRES algorithms for matrix equations. Applied Numerical Mathematics, 1999, 31, 49-63.	1.2	153
2	Block Krylov Subspace Methods for Solving Large Sylvester Equations. Numerical Algorithms, 2002, 29, 75-96.	1.1	94
3	Projection methods for large Lyapunov matrix equations. Linear Algebra and Its Applications, 2006, 415, 344-358.	0.4	87
4	Vector extrapolation methods. Applications and numerical comparison. Journal of Computational and Applied Mathematics, 2000, 122, 149-165.	1.1	68
5	Low rank approximate solutions to large Sylvester matrix equations. Applied Mathematics and Computation, 2006, 177, 365-376.	1.4	61
6	A note on the numerical approximate solutions for generalized Sylvester matrix equations with applications. Applied Mathematics and Computation, 2008, 206, 687-694.	1.4	61
7	Some results about vector extrapolation methods and related fixed-point iterations. Journal of Computational and Applied Mathematics, 1991, 36, 385-398.	1.1	48
8	Convergence properties of some block Krylov subspace methods for multiple linear systems. Journal of Computational and Applied Mathematics, 2006, 196, 498-511.	1.1	42
9	Block Krylov Subspace Methods for Large Algebraic Riccati Equations. Numerical Algorithms, 2003, 34, 339-353.	1.1	40
10	Matrix Krylov subspace methods for large scale model reduction problems. Applied Mathematics and Computation, 2006, 181, 1215-1228.	1.4	29
11	LU implementation of the modified minimal polynomial extrapolation method for solving linear and nonlinear systems. IMA Journal of Numerical Analysis, 1999, 19, 549-561.	1.5	22
12	New convergence results on the global GMRES method for diagonalizable matrices. Journal of Computational and Applied Mathematics, 2008, 219, 350-358.	1.1	20
13	Convex constrained optimization for large-scale generalized Sylvester equations. Computational Optimization and Applications, 2011, 48, 233-253.	0.9	17
14	A global Lanczos method for image restoration. Journal of Computational and Applied Mathematics, 2016, 300, 233-244.	1.1	17
15	Solution methods for linear discrete ill-posed problems for color image restoration. BIT Numerical Mathematics, 2018, 58, 555-576.	1.0	16
16	Golub–Kahan bidiagonalization for ill-conditioned tensor equations with applications. Numerical Algorithms, 2020, 84, 1535-1563.	1.1	16
17	A preconditioned block Arnoldi method for large Sylvester matrix equations. Numerical Linear Algebra With Applications, 2013, 20, 208-219.	0.9	14
18	Numerical solutions to large-scale differential Lyapunov matrix equations. Numerical Algorithms, 2018, 79, 741-757.	1.1	14

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19	Global Golub–Kahan bidiagonalization applied to large discrete ill-posed problems. Journal of Computational and Applied Mathematics, 2017, 322, 46-56.	1.1	13
20	On global iterative schemes based on Hessenberg process for (ill-posed) Sylvester tensor equations. Journal of Computational and Applied Mathematics, 2020, 373, 112216.	1.1	13
21	A generalized global Arnoldi method for ill-posed matrix equations. Journal of Computational and Applied Mathematics, 2012, 236, 2078-2089.	1.1	10
22	On some Krylov subspace based methods for large-scale nonsymmetric algebraic Riccati problems. Computers and Mathematics With Applications, 2015, 70, 2555-2565.	1.4	9
23	Matrix polynomial and epsilon-type extrapolation methods with applications. Numerical Algorithms, 2015, 68, 107-119.	1.1	9
24	Model reduction in large scale MIMO dynamical systems via the block Lanczos method. Computational and Applied Mathematics, 2008, 27, .	1.3	8
25	A Multidimensional Principal Component Analysis via the C-Product Golub–Kahan–SVD for Classification and Face Recognition. Mathematics, 2021, 9, 1249.	1.1	8
26	An Adaptive Rational Block Lanczos-Type Algorithm for Model Reduction of Large Scale Dynamical Systems. Journal of Scientific Computing, 2016, 67, 221-236.	1.1	7
27	On Some Extended Block Krylov Based Methods for Large Scale Nonsymmetric Stein Matrix Equations. Mathematics, 2017, 5, 21.	1.1	7
28	Block extrapolation methods with applications. Applied Numerical Mathematics, 2016, 106, 154-164.	1.2	6
29	An extended nonsymmetric block Lanczos method for model reduction in large scale dynamical systems. Calcolo, 2018, 55, 1.	0.6	6
30	The extended global Lanczos method for matrix function approximation. Electronic Transactions on Numerical Analysis, 0, 50, 144-163.	0.0	6
31	Tensor Krylov subspace methods via the Einstein product with applications to image and video processing. Applied Numerical Mathematics, 2022, 181, 347-363.	1.2	6
32	A Computational Global Tangential Krylov Subspace Method for Model Reduction of Large-Scale MIMO Dynamical Systems. Journal of Scientific Computing, 2018, 75, 1614-1632.	1.1	5
33	Approximate solutions to large nonsymmetric differential Riccati problems with applications to transport theory. Numerical Linear Algebra With Applications, 2020, 27, e2272.	0.9	5
34	Tensor extrapolation methods with applications. Numerical Algorithms, 2021, 87, 1421-1444.	1.1	5
35	On tensor tubal-Krylov subspace methods. Linear and Multilinear Algebra, 2022, 70, 7575-7598.	0.5	5
36	Fast multidimensional completion and principal component analysis methods via the cosine product. Calcolo, 2022, 59, .	0.6	5

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37	On some properties of the extended block and global Arnoldi methods with applications to model reduction. Numerical Algorithms, 2017, 75, 285-304.	1.1	4
38	A generalized matrix Krylov subspace method for TV regularization. Journal of Computational and Applied Mathematics, 2020, 373, 112405.	1.1	4
39	The extended global Lanczos method, Gaussâ€"Radau quadrature, and matrix function approximation. Journal of Computational and Applied Mathematics, 2021, 381, 113027.	1.1	4
40	Shifted extended global Lanczos processes for trace estimation with application to network analysis. Calcolo, 2021, 58, 1.	0.6	3
41	On some matrix extrapolation methods. Comptes Rendus Mathematique, 2005, 341, 781-786.	0.1	2
42	A global rational Arnoldi method for model reduction. Journal of Computational and Applied Mathematics, 2017, 325, 175-187.	1.1	2
43	Numerical methods for differential linear matrix equations via Krylov subspace methods. Journal of Computational and Applied Mathematics, 2020, 370, 112674.	1.1	2
44	Preconditioned iterative methods for multi-linear systems based on the majorization matrix. Linear and Multilinear Algebra, 0, , 1-20.	0.5	2
45	A Computational Method for Symmetric Stein Matrix Equations. Lecture Notes in Electrical Engineering, 2011, , 295-311.	0.3	2
46	A Tangential Block Lanczos Method for Model Reduction of Large-Scale First and Second Order Dynamical Systems. Journal of Scientific Computing, 2019, 81, 513-536.	1.1	1
47	RBF approximation of three dimensional PDEs using tensor Krylov subspace methods. Engineering Analysis With Boundary Elements, 2022, 139, 77-85.	2.0	1
48	An adaptive block tangential method for multi-input multi-output dynamical systems. Journal of Computational and Applied Mathematics, 2019, 358, 190-205.	1.1	0
49	Extended nonsymmetric global Lanczos method for matrix function approximation. Numerical Algorithms, 2020, 84, 1459-1479.	1.1	0
50	The extended symmetric block Lanczos method for matrix-valued Gauss-type quadrature rules. Journal of Computational and Applied Mathematics, 2022, 407, 114037.	1.1	0
51	An Extended-Rational Arnoldi Method for Large Matrix Exponential Evaluations. Journal of Scientific Computing, 2022, 91, .	1.1	0