

Daniele Bertaccini

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

739
citations

567144

15
h-index

526166

27
g-index

41
all docs

41
docs citations

41
times ranked

368
citing authors

#	ARTICLE	IF	CITATIONS
1	Block preconditioning of real-valued iterative algorithms for complex linear systems. IMA Journal of Numerical Analysis, 2007, 28, 598-618.	1.5	138
2	Preconditioned HSS methods for the solution of non-Hermitian positive definite linear systems and applications to the discrete convection-diffusion equation. Numerische Mathematik, 2005, 99, 441-484.	0.9	69
3	Approximate Inverse Preconditioning for Shifted Linear Systems. BIT Numerical Mathematics, 2003, 43, 231-244.	1.0	57
4	A Circulant Preconditioner for the Systems of LMF-Based ODE Codes. SIAM Journal of Scientific Computing, 2000, 22, 767-786.	1.3	41
5	Otoacoustic emissions in time-domain solutions of nonlinear non-local cochlear models. Journal of the Acoustical Society of America, 2009, 126, 2425-2436.	0.5	30
6	Nonsymmetric Preconditioner Updates in Newton-Krylov Methods for Nonlinear Systems. SIAM Journal of Scientific Computing, 2011, 33, 2595-2619.	1.3	28
7	Generation place of the long- and short-latency components of transient-evoked otoacoustic emissions in a nonlinear cochlear model. Journal of the Acoustical Society of America, 2013, 133, 4098-4108.	0.5	26
8	Sparse approximate inverse preconditioners on high performance GPU platforms. Computers and Mathematics With Applications, 2016, 71, 693-711.	1.4	26
9	Block $\{i\%o\}$ -circulant preconditioners for the systems of differential equations. Calcolo, 2003, 40, 71-90.	0.6	22
10	Distortion products and backward-traveling waves in nonlinear active models of the cochlea. Journal of the Acoustical Society of America, 2011, 129, 3141-3152.	0.5	22
11	Different models of the active cochlea, and how to implement them in the state-space formalism. Journal of the Acoustical Society of America, 2010, 128, 1191.	0.5	21
12	Solving mixed classical and fractional partial differential equations using short-memory principle and approximate inverses. Numerical Algorithms, 2017, 74, 1061-1082.	1.1	18
13	Skew-Circulant Preconditioners for Systems of LMF-Based ODE Codes. Lecture Notes in Computer Science, 2001, , 93-101.	1.0	18
14	Reliable preconditioned iterative linear solvers for some numerical integrators. Numerical Linear Algebra With Applications, 2001, 8, 111-125.	0.9	17
15	Spectral Analysis of a Preconditioned Iterative Method for the Convection-Diffusion Equation. SIAM Journal on Matrix Analysis and Applications, 2007, 29, 260-278.	0.7	16
16	How to Deduce a Proper Eigenvalue Cluster from a Proper Singular Value Cluster in the Nonnormal Case. SIAM Journal on Matrix Analysis and Applications, 2005, 27, 82-86.	0.7	15
17	Fast numerical solution of nonlinear nonlocal cochlear models. Journal of Computational Physics, 2011, 230, 2575-2587.	1.9	15
18	Limited Memory Block Preconditioners for Fast Solution of Fractional Partial Differential Equations. Journal of Scientific Computing, 2018, 77, 950-970.	1.1	15

#	ARTICLE	IF	CITATIONS
19	Block structured preconditioners in tensor form for the all-at-once solution of a finite volume fractional diffusion equation. Applied Mathematics Letters, 2019, 95, 92-97.	1.5	14
20	Band-Toeplitz Preconditioned GMRES Iterations for Time-Dependent PDEs. BIT Numerical Mathematics, 2003, 43, 901-914.	1.0	13
21	Rational Krylov methods for functions of matrices with applications to fractional partial differential equations. Journal of Computational Physics, 2019, 396, 470-482.	1.9	13
22	Updating preconditioners for nonlinear deblurring and denoising image restoration. Applied Numerical Mathematics, 2010, 60, 994-1006.	1.2	12
23	Interpolating preconditioners for the solution of sequence of linear systems. Computers and Mathematics With Applications, 2016, 72, 1118-1130.	1.4	12
24	The Convergence Rate of Block Preconditioned Systems Arising from LMF-based ODE Codes. BIT Numerical Mathematics, 2001, 41, 433-450.	1.0	11
25	The Spectrum of Circulant-Like Preconditioners for Some General Linear Multistep Formulas for Linear Boundary Value Problems. SIAM Journal on Numerical Analysis, 2002, 40, 1798-1822.	1.1	10
26	Optimizing a multigrid Runge-Kutta smoother for variable-coefficient convection-diffusion equations. Linear Algebra and Its Applications, 2017, 533, 507-535.	0.4	10
27	Spectral Analysis of Nonsymmetric Quasi-Toeplitz matrices with Applications to Preconditioned Multistep Formulas. SIAM Journal on Numerical Analysis, 2007, 45, 2345-2367.	1.1	7
28	An Adaptive Norm Algorithm for Image Restoration. Lecture Notes in Computer Science, 2012, , 194-205.	1.0	6
29	Fast simulation of solid tumors thermal ablation treatments with a 3D reaction diffusion model. Computers in Biology and Medicine, 2007, 37, 1173-1182.	3.9	5
30	Computational and conditioning issues of a discrete model for cochlear sensorineural hypoacusia. Applied Numerical Mathematics, 2009, 59, 1989-2001.	1.2	5
31	Efficient approximation of functions of some large matrices by partial fraction expansions. International Journal of Computer Mathematics, 2019, 96, 1799-1817.	1.0	4
32	Simulation of a filtration in a deformable porous medium. A numerical approach. Nonlinear Analysis: Theory, Methods & Applications, 1997, 30, 663-668.	0.6	1
33	The eigenvalues of preconditioned matrices for linear multistep formulas in boundary value form. Numerical Linear Algebra With Applications, 2005, 12, 315-325.	0.9	1
34	Computing functions of very large matrices with small TT/QT ranks by quadrature formulas. Journal of Computational and Applied Mathematics, 2020, 370, 112663.	1.1	1
35	Quasi Matrix Free Preconditioners in Optimization and Nonlinear Least-Squares. , 2010, , .		0
36	Numerical Simulations of Otoacoustic Emissions from a Non-linear Non-local Cochlear Model. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
37	Efficient Preconditioner Updates for Semilinear Space-Time Fractional Reaction-Diffusion Equations. Springer INdAM Series, 2019, , 285-302.	0.4	0
38	A Flexible Updating Framework for Preconditioners in PDE-Based Image Restoration Algorithms. , 2010, , 163-170.		0