

Peter N Brown

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11897780/publications.pdf>

Version: 2024-02-01

23
papers

5,790
citations

471061

17
h-index

676716

22
g-index

23
all docs

23
docs citations

23
times ranked

4758
citing authors

#	ARTICLE	IF	CITATIONS
1	SUNDIALS. ACM Transactions on Mathematical Software, 2005, 31, 363-396.	1.6	2,134
2	VODE: A Variable-Coefficient ODE Solver. SIAM Journal on Scientific and Statistical Computing, 1989, 10, 1038-1051.	1.5	1,364
3	Hybrid Krylov Methods for Nonlinear Systems of Equations. SIAM Journal on Scientific and Statistical Computing, 1990, 11, 450-481.	1.5	579
4	Using Krylov Methods in the Solution of Large-Scale Differential-Algebraic Systems. SIAM Journal of Scientific Computing, 1994, 15, 1467-1488.	1.3	349
5	Convergence Theory of Nonlinear Newton-Krylov Algorithms. SIAM Journal on Optimization, 1994, 4, 297-330.	1.2	175
6	Reduced storage matrix methods in stiff ODE systems. Applied Mathematics and Computation, 1989, 31, 40-91.	1.4	170
7	Matrix-Free Methods for Stiff Systems of ODEs. SIAM Journal on Numerical Analysis, 1986, 23, 610-638.	1.1	152
8	GMRES On (Nearly) Singular Systems. SIAM Journal on Matrix Analysis and Applications, 1997, 18, 37-51.	0.7	143
9	A Local Convergence Theory for Combined Inexact-Newton/Finite-Difference Projection Methods. SIAM Journal on Numerical Analysis, 1987, 24, 407-434.	1.1	131
10	A Theoretical Comparison of the Arnoldi and GMRES Algorithms. SIAM Journal on Scientific and Statistical Computing, 1991, 12, 58-78.	1.5	115
11	Decay to Uniform States in Ecological Interactions. SIAM Journal on Applied Mathematics, 1980, 38, 22-37.	0.8	102
12	Consistent Initial Condition Calculation for Differential-Algebraic Systems. SIAM Journal of Scientific Computing, 1998, 19, 1495-1512.	1.3	98
13	Semicoarsening Multigrid on Distributed Memory Machines. SIAM Journal of Scientific Computing, 2000, 21, 1823-1834.	1.3	96
14	Fully implicit solution of large-scale non-equilibrium radiation diffusion with high order time integration. Journal of Computational Physics, 2005, 204, 760-783.	1.9	41
15	Preconditioning Strategies for Fully Implicit Radiation Diffusion with Material-Energy Transfer. SIAM Journal of Scientific Computing, 2001, 23, 499-516.	1.3	36
16	Iterative Linear Solvers in a 2D Radiation-Hydrodynamics Code: Methods and Performance. Journal of Computational Physics, 1999, 154, 1-40.	1.9	34
17	A Linear Algebraic Development of Diffusion Synthetic Acceleration for Three-Dimensional Transport Equations. SIAM Journal on Numerical Analysis, 1995, 32, 179-214.	1.1	31
18	On Using Approximate Finite Differences in Matrix-Free Newton-Krylov Methods. SIAM Journal on Numerical Analysis, 2008, 46, 1892-1911.	1.1	12

#	ARTICLE	IF	CITATIONS
19	Decay to Uniform States in Food Webs. SIAM Journal on Applied Mathematics, 1986, 46, 376-392.	0.8	10
20	Spherical harmonic solutions of the Boltzmann transport equation via discrete ordinates. Progress in Nuclear Energy, 2001, 39, 263-284.	1.3	9
21	Decay to Uniform States in Competitive Systems. SIAM Journal on Mathematical Analysis, 1983, 14, 659-673.	0.9	6
22	Decay to Uniform States in Predator-Prey Chains. SIAM Journal on Applied Mathematics, 1985, 45, 465-478.	0.8	3
23	Projection Methods for Solving Nonlinear Systems of Equations. , 1991, , 341-355.		0