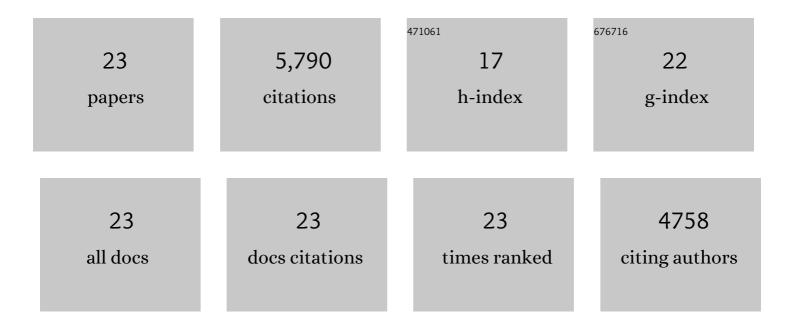
## Peter N Brown

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/11897780/publications.pdf Version: 2024-02-01



| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | On Using Approximate Finite Differences in Matrix-Free Newton–Krylov Methods. SIAM Journal on<br>Numerical Analysis, 2008, 46, 1892-1911.                               | 1.1 | 12        |
| 2  | 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        |
| 3  | SUNDIALS. ACM Transactions on Mathematical Software, 2005, 31, 363-396.   | 1.6 | 2,134     |
| 4  | Preconditioning Strategies for Fully Implicit Radiation Diffusion with Material-Energy Transfer. SIAM<br>Journal of Scientific Computing, 2001, 23, 499-516.            | 1.3 | 36        |
| 5  | Spherical harmonic solutions of the Boltzmann transport equation via discrete ordinates. Progress in Nuclear Energy, 2001, 39, 263-284.                                 | 1.3 | 9         |
| 6  | Semicoarsening Multigrid on Distributed Memory Machines. SIAM Journal of Scientific Computing, 2000, 21, 1823-1834.   | 1.3 | 96        |
| 7  | Iterative Linear Solvers in a 2D Radiation–Hydrodynamics Code: Methods and Performance. Journal of<br>Computational Physics, 1999, 154, 1-40.                           | 1.9 | 34        |
| 8  | Consistent Initial Condition Calculation for Differential-Algebraic Systems. SIAM Journal of Scientific<br>Computing, 1998, 19, 1495-1512.                              | 1.3 | 98        |
| 9  | GMRES On (Nearly) Singular Systems. SIAM Journal on Matrix Analysis and Applications, 1997, 18, 37-51.  | 0.7 | 143       |
| 10 | A Linear Algebraic Development of Diffusion Synthetic Acceleration for Three-Dimensional Transport<br>Equations. SIAM Journal on Numerical Analysis, 1995, 32, 179-214. | 1.1 | 31        |
| 11 | Convergence Theory of Nonlinear Newton–Krylov Algorithms. SIAM Journal on Optimization, 1994, 4,<br>297-330.  | 1.2 | 175       |
| 12 | Using Krylov Methods in the Solution of Large-Scale Differential-Algebraic Systems. SIAM Journal of<br>Scientific Computing, 1994, 15, 1467-1488.                       | 1.3 | 349       |
| 13 | A Theoretical Comparison of the Arnoldi and GMRES Algorithms. SIAM Journal on Scientific and Statistical Computing, 1991, 12, 58-78.                                    | 1.5 | 115       |
| 14 | Projection Methods for Solving Nonlinear Systems of Equations. , 1991, , 341-355.   |     | 0         |
| 15 | Hybrid Krylov Methods for Nonlinear Systems of Equations. SIAM Journal on Scientific and Statistical<br>Computing, 1990, 11, 450-481.                                   | 1.5 | 579       |
| 16 | Reduced storage matrix methods in stiff ODE systems. Applied Mathematics and Computation, 1989, 31, 40-91.  | 1.4 | 170       |
| 17 | VODE: A Variable-Coefficient ODE Solver. SIAM Journal on Scientific and Statistical Computing, 1989, 10, 1038-1051.   | 1.5 | 1,364     |
| 18 | A Local Convergence Theory for Combined Inexact-Newton/Finite-Difference Projection Methods. SIAM<br>Journal on Numerical Analysis, 1987, 24, 407-434.                  | 1.1 | 131       |

2

Peter N Brown

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Matrix-Free Methods for Stiff Systems of ODE's. SIAM Journal on Numerical Analysis, 1986, 23, 610-638.       | 1.1 | 152       |
| 20 | Decay to Uniform States in Food Webs. SIAM Journal on Applied Mathematics, 1986, 46, 376-392.                | 0.8 | 10        |
| 21 | Decay to Uniform States in Predator-Prey Chains. SIAM Journal on Applied Mathematics, 1985, 45, 465-478.     | 0.8 | 3         |
| 22 | Decay to Uniform States in Competitive Systems. SIAM Journal on Mathematical Analysis, 1983, 14,<br>659-673. | 0.9 | 6         |
| 23 | Decay to Uniform States in Ecological Interactions. SIAM Journal on Applied Mathematics, 1980, 38, 22-37.    | 0.8 | 102       |