

# Ben S Southworth

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

250  
citations

1039880

9  
h-index

996849

15  
g-index

22  
all docs

22  
docs citations

22  
times ranked

263  
citing authors

#	ARTICLE	IF	CITATIONS
1	Space-Time Block Preconditioning for Incompressible Flow. <i>SIAM Journal of Scientific Computing</i> , 2022, 44, A337-A363.	1.3	4
2	Fast Solution of Fully Implicit Runge–Kutta and Discontinuous Galerkin in Time for Numerical PDEs, Part I: the Linear Setting. <i>SIAM Journal of Scientific Computing</i> , 2022, 44, A416-A443.	1.3	6
3	Fast Solution of Fully Implicit Runge–Kutta and Discontinuous Galerkin in Time for Numerical PDEs, Part II: Nonlinearities and DAEs. <i>SIAM Journal of Scientific Computing</i> , 2022, 44, A636-A663.	1.3	5
4	On “Optimal” $h$ -independent convergence of Parareal and multigrid reduction in time using Runge–Kutta time integration. <i>Numerical Linear Algebra With Applications</i> , 2021, 28, e2301.	0.9	5
5	Diffusion Synthetic Acceleration for Heterogeneous Domains, Compatible with Voids. <i>Nuclear Science and Engineering</i> , 2021, 195, 119-136.	0.5	4
6	AIR Algebraic Multigrid for a Space-Time Hybridizable Discontinuous Galerkin Discretization of Advection(-Diffusion). <i>SIAM Journal of Scientific Computing</i> , 2021, 43, A3393-A3416.	1.3	4
7	Tight Two-Level Convergence of Linear Parareal and MGRIT: Extensions and Implications in Practice. <i>Springer Proceedings in Mathematics and Statistics</i> , 2021, , 1-31.	0.1	3
8	Multilevel Convergence Analysis of Multigrid-Reduction-in-Time. <i>SIAM Journal of Scientific Computing</i> , 2020, 42, A771-A796.	1.3	14
9	On Fixed-Point, Krylov, and $2 \times 2$ Block Preconditioners for Nonsymmetric Problems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2020, 41, 871-900.	0.7	6
10	Parallel Approximate Ideal Restriction Multigrid for Solving the $S_N$ Transport Equations. <i>Nuclear Science and Engineering</i> , 2020, 194, 989-1008.	0.5	3
11	Diffusion Synthetic Acceleration Preconditioning for Discontinuous Galerkin Discretizations of $S_N$ Transport on High-Order Curved Meshes. <i>SIAM Journal of Scientific Computing</i> , 2020, 42, B1271-B1301.	1.3	6
12	Nonsymmetric Reduction-Based Algebraic Multigrid. <i>SIAM Journal of Scientific Computing</i> , 2019, 41, S242-S268.	1.3	23
13	Necessary Conditions and Tight Two-level Convergence Bounds for Parareal and Multigrid Reduction in Time. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2019, 40, 564-608.	0.7	22
14	An Efficient Sweep-Based Solver for the $S_N$ Equations on High-Order Meshes. <i>Nuclear Science and Engineering</i> , 2019, 193, 746-759.	0.5	14
15	Convergence in Norm of Nonsymmetric Algebraic Multigrid. <i>SIAM Journal of Scientific Computing</i> , 2019, 41, S269-S296.	1.3	6
16	Surface deposition of the Enceladus plume and the zenith angle of emissions. <i>Icarus</i> , 2019, 319, 33-42.	1.1	36
17	Nonsymmetric Algebraic Multigrid Based on Local Approximate Ideal Restriction (AIR). <i>SIAM Journal of Scientific Computing</i> , 2018, 40, A4105-A4130.	1.3	28
18	A Root-Node-Based Algebraic Multigrid Method. <i>SIAM Journal of Scientific Computing</i> , 2017, 39, S723-S756.	1.3	17

#	ARTICLE	IF	CITATIONS
19	Modeling Europa's dust plumes. <i>Geophysical Research Letters</i> , 2015, 42, 10,541.	1.5	24
20	A comparison of five malaria transmission models: benchmark tests and implications for disease control. <i>Malaria Journal</i> , 2014, 13, 268.	0.8	20