Ben S Southworth

List of Publications by Year
in descending order

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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	Surface deposition of the Enceladus plume and the zenith angle of emissions. Icarus, 2019, 319, 33-42.	1.1	36
2	Nonsymmetric Algebraic Multigrid Based on Local Approximate Ideal Restriction (ellAIR). SIAM Journal of Scientific Computing, 2018, 40, A4105-A4130.	1.3	28
3	Modeling Europa's dust plumes. Geophysical Research Letters, 2015, 42, 10,541.	1.5	24
4	Nonsymmetric Reduction-Based Algebraic Multigrid. SIAM Journal of Scientific Computing, 2019, 41, S242-S268.	1.3	23
5	Necessary Conditions and Tight Two-level Convergence Bounds for Parareal and Multigrid Reduction in Time. SIAM Journal on Matrix Analysis and Applications, 2019, 40, 564-608.	0.7	22
6	A comparison of five malaria transmission models: benchmark tests and implications for disease control. Malaria Journal, 2014, 13, 268.	0.8	20
7	A Root-Node--Based Algebraic Multigrid Method. SIAM Journal of Scientific Computing, 2017, 39, S723-S756.	1.3	17
8	An Efficient Sweep-Based Solver for the S _N Equations on High-Order Meshes. Nuclear Science and Engineering, 2019, 193, 746-759.	0.5	14
9	Multilevel Convergence Analysis of Multigrid-Reduction-in-Time. SIAM Journal of Scientific Computing, 2020, 42, A771-A796.	1.3	14
10	Convergence in Norm of Nonsymmetric Algebraic Multigrid. SIAM Journal of Scientific Computing, 2019, 41, S269-S296.	1.3	6
11	On Fixed-Point, Krylov, and $2imes 2$ Block Preconditioners for Nonsymmetric Problems. SIAM Journal on Matrix Analysis and Applications, 2020, 41, 871-900.	0.7	6
12	Diffusion Synthetic Acceleration Preconditioning for Discontinuous Galerkin Discretizations of S_N Transport on High-Order Curved Meshes. SIAM Journal of Scientific Computing, 2020, 42, B1271-B1301.	1.3	6
13	Fast Solution of Fully Implicit Runge--Kutta and Discontinuous Galerkin in Time for Numerical PDEs, Part I: the Linear Setting. SIAM Journal of Scientific Computing, 2022, 44, A416-A443.	1.3	6
14	On â€œOptimalâ€•h â€•independent convergence of Parareal and multigridâ€•reductionâ€•inâ€•time using Rungeâ€Kutta time integration. Numerical Linear Algebra With Applications, 2021, 28, e2301.	0.9	5
15	Fast Solution of Fully Implicit Runge--Kutta and Discontinuous Galerkin in Time for Numerical PDEs, Part II: Nonlinearities and DAEs. SIAM Journal of Scientific Computing, 2022, 44, A636-A663.	1.3	5
16	Diffusion Synthetic Acceleration for Heterogeneous Domains, Compatible with Voids. Nuclear Science and Engineering, 2021, 195, 119-136.	0.5	4
17	AIR Algebraic Multigrid for a Space-Time Hybridizable Discontinuous Galerkin Discretization of Advection(-Diffusion). SIAM Journal of Scientific Computing, 2021, 43, A3393-A3416.	1.3	4
18	Space-Time Block Preconditioning for Incompressible Flow. SIAM Journal of Scientific Computing, 2022, 44, A337-A363.	1.3	4

#	Article	IF	Citations
19	Parallel Approximate Ideal Restriction Multigrid for Solving the S_N Transport Equations. Nuclear Science and Engineering, 2020, 194, 989-1008.	0.5	3
20	Tight Two-Level Convergence of Linear Parareal and MGRIT: Extensions and Implications in Practice. Springer Proceedings in Mathematics and Statistics, 2021, , 1-31.	0.1	3