Eric C Cyr

List of Publications by Year
in descending order

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Version: 2024-02-01

14	340	933447 10	1199594 12
papers	citations	h-index	g-index

14	14	14	181
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermodynamically consistent physics-informed neural networks for hyperbolic systems. Journal of Computational Physics, 2022, 449, 110754.	3.8	49
2	A New Approximate Block Factorization Preconditioner for Two-Dimensional Incompressible (Reduced) Resistive MHD. SIAM Journal of Scientific Computing, 2013, 35, B701-B730.	2.8	48
3	A physics-informed operator regression framework for extracting data-driven continuum models. Computer Methods in Applied Mechanics and Engineering, 2021, 373, 113500.	6.6	43
4	Monolithic Multigrid Methods for Two-Dimensional Resistive Magnetohydrodynamics. SIAM Journal of Scientific Computing, 2016, 38, B1-B24.	2.8	33
5	Block Preconditioners for Stable Mixed Nodal and Edge finite element Representations of Incompressible Resistive MHD. SIAM Journal of Scientific Computing, 2016, 38, B1009-B1031.	2.8	31
6	A firstâ€order system leastâ€squares finite element method for the Poissonâ€Boltzmann equation. Journal of Computational Chemistry, 2010, 31, 1625-1635.	3.3	30
7	A Block Preconditioner for an Exact Penalty Formulation for Stationary MHD. SIAM Journal of Scientific Computing, 2014, 36, B930-B951.	2.8	30
8	Stabilization and scalable block preconditioning for the Navierâ€“Stokes equations. Journal of Computational Physics, 2012, 231, 345-363.	3.8	25
9	Teko: A Block Preconditioning Capability with Concrete Example Applications in Navier–Stokes and MHD. SIAM Journal of Scientific Computing, 2016, 38, S307-S331.	2.8	14
10	Goal-Oriented Adaptivity and Multilevel Preconditioning for the Poisson-Boltzmann Equation. Journal of Scientific Computing, 2012, 52, 202-225.	2.3	10
11	Enhancing Least-Squares Finite Element Methods Through a Quantity-of-Interest. SIAM Journal on Numerical Analysis, 2014, 52, 3085-3105.	2.3	10
12	Monolithic Multigrid Methods for Magnetohydrodynamics. SIAM Journal of Scientific Computing, 0, , S70-S91.	2.8	9
13	Scalable Preconditioners for Structure Preserving Discretizations of Maxwell Equations in First Order Form. SIAM Journal of Scientific Computing, 2018, 40, B723-B742.	2.8	8
14	Enabling Scalable Multifluid Plasma Simulations Through Block Preconditioning. Lecture Notes in Computational Science and Engineering, 2020, , 231-244.	0.3	0