Daniel R Reynolds

List of Publications by Year in descending order

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DANIEL P. REVNOLDS

#	Article	IF	CITATIONS
1	Enabling New Flexibility in the SUNDIALS Suite of Nonlinear and Differential/Algebraic Equation Solvers. ACM Transactions on Mathematical Software, 2022, 48, 1-24.	2.9	28
2	Cyclically parallelized treecode for fast computations of electrostatic interactions on molecular surfaces. Computer Physics Communications, 2021, 260, 107742.	7.5	3
3	Implicit-Explicit Multirate Infinitesimal GARK Methods. SIAM Journal of Scientific Computing, 2021, 43, A3082-A3113.	2.8	6
4	Enabling GPU accelerated computing in the SUNDIALS time integration library. Parallel Computing, 2021, 108, 102836.	2.1	11
5	A New Class of High-Order Methods for Multirate Differential Equations. SIAM Journal of Scientific Computing, 2020, 42, A1245-A1268.	2.8	8
6	Evaluation of Implicitâ€Explicit Additive Rungeâ€Kutta Integrators for the HOMMEâ€NH Dynamical Core. Journal of Advances in Modeling Earth Systems, 2019, 11, 4228-4244.	3.8	11
7	Further development of efficient and accurate time integration schemes for meteorological models. Journal of Computational Physics, 2019, 376, 817-837.	3.8	19
8	ENZO: An Adaptive Mesh Refinement Code for Astrophysics (Version 2.6). Journal of Open Source Software, 2019, 4, 1636.	4.6	44
9	Implicit–explicit (IMEX) Runge–Kutta methods for non-hydrostatic atmospheric models. Geoscientific Model Development, 2018, 11, 1497-1515.	3.6	33
10	Impact and importance of hyperdiffusion on the spectral element method: A linear dispersion analysis. Journal of Computational Physics, 2018, 375, 427-446.	3.8	16
11	Filters for Improvement of Multiscale Data from Atomistic Simulations. Multiscale Modeling and Simulation, 2017, 15, 1-28.	1.6	0
12	FULLY COUPLED SIMULATION OF COSMIC REIONIZATION. I. NUMERICAL METHODS AND TESTS. Astrophysical Journal, Supplement Series, 2015, 216, 16.	7.7	30
13	ENZO: AN ADAPTIVE MESH REFINEMENT CODE FOR ASTROPHYSICS. Astrophysical Journal, Supplement Series, 2014, 211, 19.	7.7	615
14	FULLY COUPLED SIMULATION OF COSMIC REIONIZATION. II. RECOMBINATIONS, CLUMPING FACTORS, AND THE PHOTON BUDGET FOR REIONIZATION. Astrophysical Journal, 2014, 789, 149.	4.5	48
15	Multiphysics simulations. International Journal of High Performance Computing Applications, 2013, 27, 4-83.	3.7	244
16	A fully implicit Newton–Krylov–Schwarz method for tokamak magnetohydrodynamics: Jacobian construction and preconditioner formulation. Computational Science & Discovery, 2012, 5, 014003.	1.5	8
17	Sparse Jacobian Construction for Mapped Grid Visco-Resistive Magnetohydrodynamics. Lecture Notes in Computational Science and Engineering, 2012, , 11-21.	0.3	2

18 Modeling early galaxies using radiation hydrodynamics. , 2011, , .

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19	Operator-Based Preconditioning of Stiff Hyperbolic Systems. SIAM Journal of Scientific Computing, 2010, 32, 150-170.	2.8	18
20	Cosmological Radiation Hydrodynamics with Enzo. , 2009, , .		1
21	Cosmological radiative transfer comparison project – II. The radiation-hydrodynamic tests. Monthly Notices of the Royal Astronomical Society, 2009, 400, 1283-1316.	4.4	94
22	Self-consistent solution of cosmological radiation-hydrodynamics and chemical ionization. Journal of Computational Physics, 2009, 228, 6833-6854.	3.8	19
23	Implicit solvers for large-scale nonlinear problems. Journal of Physics: Conference Series, 2006, 46, 433-442.	0.4	28
24	On the modeling and computations of nonlinear thermodynamics in SMA wires. Computer Methods in Applied Mechanics and Engineering, 2006, 196, 180-191.	6.6	3
25	A fully implicit numerical method for single-fluid resistive magnetohydrodynamics. Journal of Computational Physics, 2006, 219, 144-162.	3.8	46
26	On the asymptotically stochastic computational modeling of microstructures. Future Generation Computer Systems, 2004, 20, 409-424.	7.5	1
27	Computational modeling of vibration damping in SMA wires. Continuum Mechanics and Thermodynamics, 2004, 16, 495-514.	2.2	6
28	On thermodynamic active control of shape memory alloy wires. Systems and Control Letters, 2003, 48, 211-219.	2.3	3
29	Thermal stabilization of shape memory alloy wires. , 2003, 5049, 24.		1
30	Efficient and automatic implementation of the adjoint state method. ACM Transactions on Mathematical Software, 2002, 28, 22-44.	2.9	7