## Elbridge Gerry Puckett

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5549151/publications.pdf

Version: 2024-02-01

21 papers

2,679 citations

933447 10 h-index 18 g-index

22 all docs 22 docs citations

times ranked

22

1726 citing authors

#	Article	IF	CITATIONS
1	Implementation of a Volume-of-Fluid method in a finite element code with applications to thermochemical convection in a density stratified fluid in the Earth's mantle. Computers and Fluids, 2019, 190, 217-253.	2.5	8
2	Evaluating the accuracy of hybrid finite element/particle-in-cell methods for modelling incompressible Stokes flow. Geophysical Journal International, 2019, 219, 1915-1938.	2.4	11
3	New numerical approaches for modeling thermochemical convection in a compositionally stratified fluid. Physics of the Earth and Planetary Interiors, 2018, 276, 10-35.	1.9	10
4	Flexible and Scalable Particleâ€inâ€Cell Methods With Adaptive Mesh Refinement for Geodynamic Computations. Geochemistry, Geophysics, Geosystems, 2018, 19, 3596-3604.	2.5	34
5	A discontinuous Galerkin method with a bound preserving limiter for the advection of non-diffusive fields in solid Earth geodynamics. Physics of the Earth and Planetary Interiors, 2017, 263, 23-37.	1.9	20
6	The refraction of shock pairs. Shock Waves, 2014, 24, 553-572.	1.9	2
7	A Neumann–Neumann preconditioned iterative substructuring approach for computing solutions to Poisson's equation with prescribed jumps on an embedded boundary. Journal of Computational Physics, 2013, 235, 683-700.	3.8	2
8	Supply-demand Diagrams and a New Framework for Analyzing the Inhomogeneous Lighthill-Whitham-Richards Model., 2009,, 603-635.		20
9	Second-order accurate volume-of-fluid algorithms for tracking material interfaces. Journal of Computational Physics, 2004, 199, 465-502.	3.8	519
10	A Coupled Level Set and Volume-of-Fluid Method for Computing 3D and Axisymmetric Incompressible Two-Phase Flows. Journal of Computational Physics, 2000, 162, 301-337.	3.8	1,317
11	A High-Order Projection Method for Tracking Fluid Interfaces in Variable Density Incompressible Flows. Journal of Computational Physics, 1997, 130, 269-282.	3.8	418
12	An Ising model approach to the behavior of the Earth's magnetic field: A progress report. Surveys in Geophysics, 1996, 17, 225-228.	4.6	0
13	A High-Order Godunov Method for Multiple Condensed Phases. Journal of Computational Physics, 1996, 128, 134-164.	3.8	176
14	Edge effects in molybdenumâ€encapsulated molten silicate shock wave targets. Journal of Applied Physics, 1994, 75, 1426-1434.	2.5	12
15	Vortex Methods: An Introduction and Survey of Selected Research Topics., 1993,, 335-408.		28
16	A 3D adaptive mesh refinement algorithm for multimaterial gas dynamics. Physica D: Nonlinear Phenomena, 1992, 60, 84-93.	2.8	45
17	A Numerical Study of Shock Wave Refraction at a CO2/CH4 Interface. The IMA Volumes in Mathematics and Its Applications, 1991, , 261-280.	0.5	2
18	A fast vortex method for computing 2D viscous flow. Journal of Computational Physics, 1990, 91, 278-297.	3.8	8

#	Article	IF	CITATIONS
19	Convergence of a Random Particle Method to Solutions of the Kolmogorov Equation u t = $\hat{l}$ /2u xx + u(1 -) Tj ETQ	q1 <sub>2.1</sub> 0.78	843 <u>1</u> 4 rgBT /
20	A Study of the Vortex Sheet Method and its Rate of Convergence. SIAM Journal on Scientific and Statistical Computing, 1989, 10, 298-327.	1.5	24
21	Convergence of a random particle method to solutions of the Kolmogorov equation $susbt=1$ usb $xx+u(1-u)$ . Mathematics of Computation, 1989, 52, 615-615.	2.1	18