

Len Margolin

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,118
citations

471509

17
h-index

477307

29
g-index

31
all docs

31
docs citations

31
times ranked

658
citing authors

#	ARTICLE	IF	CITATIONS
1	A rationale for implicit turbulence modelling. <i>International Journal for Numerical Methods in Fluids</i> , 2002, 39, 821-841.	1.6	178
2	Second-order sign-preserving conservative interpolation (remapping) on general grids. <i>Journal of Computational Physics</i> , 2003, 184, 266-298.	3.8	143
3	Large-eddy simulations of convective boundary layers using nonoscillatory differencing. <i>Physica D: Nonlinear Phenomena</i> , 1999, 133, 390-397.	2.8	118
4	Introduction to "An Arbitrary Lagrangian-Eulerian Computing Method for All Flow Speeds". <i>Journal of Computational Physics</i> , 1997, 135, 198-202.	3.8	104
5	On balanced approximations for time integration of multiple time scale systems. <i>Journal of Computational Physics</i> , 2003, 185, 583-611.	3.8	97
6	Antidiffusive Velocities for Multipass Donor Cell Advection. <i>SIAM Journal of Scientific Computing</i> , 1998, 20, 907-929.	2.8	50
7	Coupled Atmospheric Fire Modeling Employing the Method of Averages. <i>Monthly Weather Review</i> , 2000, 128, 3683-3691.	1.4	48
8	A generalized Griffith criterion for crack propagation. <i>Engineering Fracture Mechanics</i> , 1984, 19, 539-543.	4.3	47
9	Remapping, recovery and repair on a staggered grid. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 4139-4155.	6.6	40
10	Using a Curvilinear Grid to Construct Symmetry-Preserving Discretizations for Lagrangian Gas Dynamics. <i>Journal of Computational Physics</i> , 1999, 149, 389-417.	3.8	38
11	Finite-scale equations for compressible fluid flow. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 2861-2871.	3.4	35
12	Application of the Volume-of-Fluid Method to the Advection-Condensation Problem. <i>Monthly Weather Review</i> , 1997, 125, 2265-2273.	1.4	32
13	Microphysical models for inelastic material response. <i>International Journal of Engineering Science</i> , 1984, 22, 1171-1179.	5.0	22
14	On Simulating Flows with Multiple Time Scales Using a Method of Averages. <i>Theoretical and Computational Fluid Dynamics</i> , 1997, 9, 281-292.	2.2	21
15	A NUMERICAL LABORATORY FOR GRANULAR SOLIDS. <i>Engineering Computations</i> , 1992, 9, 191-197.	1.4	20
16	Finite scale theory: The role of the observer in classical fluid flow. <i>Mechanics Research Communications</i> , 2014, 57, 10-17.	1.8	18
17	Finite volume methods and the equations of finite scale: A mimetic approach. <i>International Journal for Numerical Methods in Fluids</i> , 2008, 56, 991-1002.	1.6	17
18	Entropy in self-similar shock profiles. <i>International Journal of Non-Linear Mechanics</i> , 2017, 95, 333-346.	2.6	16

#	ARTICLE	IF	CITATIONS
19	Nonequilibrium Entropy in a Shock. <i>Entropy</i> , 2017, 19, 368.	2.2	15
20	Traveling wave solutions for finite scale equations. <i>Mechanics Research Communications</i> , 2012, 45, 64-69.	1.8	14
21	MPDATA: gauge transformations, limiters and monotonicity. <i>International Journal for Numerical Methods in Fluids</i> , 2006, 50, 1193-1206.	1.6	8
22	A finite scale model for shock structure. <i>Physica D: Nonlinear Phenomena</i> , 2020, 403, 132308.	2.8	8
23	Fully compressible solutions for early stage Richtmyer–Meshkov instability. <i>Computers and Fluids</i> , 2017, 151, 46-57.	2.5	5
24	Scale matters. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170235.	3.4	5
25	Finite scale theory: Predicting nature's shocks. <i>Wave Motion</i> , 2020, 98, 102647.	2.0	5
26	Discrete regularization. <i>Evolution Equations and Control Theory</i> , 2019, 8, 117-137.	1.3	5
27	Discrete thermodynamics. <i>Mechanics Research Communications</i> , 2018, 93, 103-107.	1.8	4
28	Numerical validation of a constitutive theory for an arbitrarily fractured solid. <i>Engineering Computations</i> , 1995, 12, 125-134.	1.4	3
29	Damage and Failure in a Statistical Crack Model. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8700.	2.5	2
30	A strain space framework for numerical hyperplasticity. <i>Mathematics and Computers in Simulation</i> , 2016, 127, 178-188.	4.4	0