Emmanuel Leveque

List of Publications by Year in descending order

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53	2,915	27 h-index	53
papers	citations		g-index
53	53	53	1641 citing authors
all docs	docs citations	times ranked	

#	Article	IF	CITATIONS
1	Consistent time-step optimization in the lattice Boltzmann method. Journal of Computational Physics, 2022, 462, 111224.	3.8	2
2	Connecting large-scale velocity and temperature bursts with small-scale intermittency in stratified turbulence. Europhysics Letters, 2021, 135, 14001.	2.0	6
3	Recursive finite-difference Lattice Boltzmann schemes. Computers and Mathematics With Applications, 2021, 96, 95-108.	2.7	3
4	Numerical study of extreme mechanical force exerted by a turbulent flow on a bluff body by direct and rare-event sampling techniques. Journal of Fluid Mechanics, 2020, 895, .	3.4	9
5	Importance of fluid inertia for the orientation of spheroids settling in turbulent flow. Journal of Fluid Mechanics, 2020, 886, .	3.4	27
6	Collision rate of ice crystals with water droplets in turbulent flows. Journal of Fluid Mechanics, 2018, 845, 615-641.	3.4	14
7	Wall-modeled large-eddy simulation of the flow past a rod-airfoil tandem by the Lattice Boltzmann method. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 1096-1116.	2.8	16
8	Advanced lattice Boltzmann scheme for high-Reynolds-number magneto-hydrodynamic flows. Journal of Turbulence, 2018, 19, 446-462.	1.4	10
9	Settling and collision between small ice crystals in turbulent flows. Physical Review Fluids, 2018, 3, .	2.5	19
10	Hybrid simulation combining two space–time discretization of the discrete-velocity Boltzmann equation. Journal of Computational Physics, 2017, 349, 399-414.	3.8	8
11	Statistical Model for the Orientation of Nonspherical Particles Settling in Turbulence. Physical Review Letters, 2017, 119, 254501.	7.8	30
12	Disproportionate entrance length in superfluid flows and the puzzle of counterflow instabilities. Physical Review Fluids, 2017, 2, .	2.5	10
13	Central-moment lattice Boltzmann schemes with fixed and moving immersed boundaries. Computers and Mathematics With Applications, 2016, 72, 1616-1628.	2.7	27
14	Shear improved Smagorinsky model for large eddy simulation of flow in a stirred tank with a Rushton disk turbine. Chemical Engineering Research and Design, 2016, 108, 69-80.	5.6	15
15	Spread of consensus in self-organized groups of individuals: Hydrodynamics matters. Europhysics Letters, 2016, 113, 18001.	2.0	5
16	A Kalman filter adapted to the estimation of mean gradients in the large-eddy simulation of unsteady turbulent flows. Computers and Fluids, 2016, 127, 65-77.	2.5	4
17	Harmonic oscillations of a thin lamina in a quiescent viscous fluid: A numerical investigation within the framework of the lattice Boltzmann method. Computers and Structures, 2015, 157, 209-217.	4.4	6
18	Collision rate for suspensions at large Stokes numbers – comparing Navier–Stokes and synthetic turbulence. Journal of Turbulence, 2015, 16, 15-25.	1.4	7

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19	Introduction of longitudinal and transverse Lagrangian velocity increments in homogeneous and isotropic turbulence. Europhysics Letters, 2014, 108, 54004.	2.0	12
20	Effective viscosity in quantum turbulence: A steady-state approach. Europhysics Letters, 2014, 106, 24006.	2.0	30
21	Direct and large-eddy simulation of turbulent flows on composite multi-resolution grids by the lattice Boltzmann method. Journal of Computational Physics, 2014, 256, 220-233.	3.8	46
22	Prevalence of the sling effect for enhancing collision rates in turbulent suspensions. Journal of Fluid Mechanics, 2014, 749, 841-852.	3.4	50
23	Multiple collisions in turbulent flows. Physical Review E, 2013, 88, 063008.	2.1	12
24	Energy cascade and the four-fifths law in superfluid turbulence. Europhysics Letters, 2012, 97, 34006.	2.0	57
25	A phenomenological theory of Eulerian and Lagrangian velocity fluctuations in turbulent flows. Comptes Rendus Physique, 2012, 13, 899-928.	0.9	42
26	Impact of trailing wake drag on the statistical properties and dynamics of finite-sized particle in turbulence. Physica D: Nonlinear Phenomena, 2012, 241, 237-244.	2.8	32
27	Local and nonlocal pressure Hessian effects in real and synthetic fluid turbulence. Physics of Fluids, 2011, 23, .	4.0	11
28	Estimating the Collision Rate of Inertial Particles in a Turbulent Flow: Limitations of the "Ghost Collision" Approximation. Journal of Physics: Conference Series, 2011, 318, 052024.	0.4	3
29	Mesoscale equipartition of kinetic energy in quantum turbulence. Europhysics Letters, 2011, 94, 24001.	2.0	32
30	Dynamics of inertial particles in a turbulent von $K\tilde{A}_i$ rm \tilde{A}_i n flow. Journal of Fluid Mechanics, 2011, 668, 223-235.	3.4	63
31	Smoothing algorithms for mean-flow extraction in large-eddy simulation of complex turbulent flows. Physics of Fluids, 2010, 22, .	4.0	32
32	Quantum turbulence at finite temperature: The two-fluids cascade. Europhysics Letters, 2009, 87, 54006.	2.0	45
33	Acceleration statistics of finite-sized particles in turbulent flow: the role of Fax \tilde{A} ©n forces. Journal of Fluid Mechanics, 2009, 630, 179-189.	3.4	95
34	Universal Intermittent Properties of Particle Trajectories in Highly Turbulent Flows. Physical Review Letters, 2008, 100, 254504.	7.8	145
35	Lagrangian intermittencies in dynamic and static turbulent velocity fields from direct numerical simulations. Journal of Turbulence, 2007, 8, N3.	1.4	6
36	Shear-improved Smagorinsky model for large-eddy simulation of wall-bounded turbulent flows. Journal of Fluid Mechanics, 2007, 570, 491-502.	3.4	162

#	Article	IF	CITATIONS
37	Numerical studies towards practical large-eddy simulation. Journal of Thermal Science, 2007, 16, 328-336.	1.9	29
38	Unified multifractal description of velocity increments statistics in turbulence: Intermittency and skewness. Physica D: Nonlinear Phenomena, 2006, 218, 77-82.	2.8	62
39	An introduction to turbulence in fluids, and modelling aspects. EAS Publications Series, 2006, 21, 7-42.	0.3	2
40	On the rapid increase of intermittency in the near-dissipation range of fully developed turbulence. European Physical Journal B, 2005, 45, 561-567.	1.5	42
41	Intermittency of Velocity Time Increments in Turbulence. Physical Review Letters, 2005, 95, 064501.	7.8	41
42	Huge Fluctuations in Weight Measurements at the Bottom of a Two-Dimensional Vertical Sheet of Grains. Physical Review Letters, 2004, 92, 204301.	7.8	6
43	Experimental and numerical study of the Lagrangian dynamics of high Reynolds turbulence. New Journal of Physics, 2004, 6, 116-116.	2.9	154
44	Title is missing!. Journal of Statistical Physics, 2003, 113, 701-717.	1.2	38
45	Lagrangian Velocity Statistics in Turbulent Flows: Effects of Dissipation. Physical Review Letters, 2003, 91, 214502.	7.8	81
46	Long Time Correlations in Lagrangian Dynamics: A Key to Intermittency in Turbulence. Physical Review Letters, 2002, 89, 254502.	7.8	105
47	Finite-Mode Spectral Model of Homogeneous and Isotropic Navier-Stokes Turbulence: A Rapidly Depleted Energy Cascade. Physical Review Letters, 2001, 86, 4033-4036.	7.8	11
48	Scaling properties of the streamwise component of velocity in a turbulent boundary layer. Physica D: Nonlinear Phenomena, 2000, 141, 183-198.	2.8	31
49	Shear Effects in Nonhomogeneous Turbulence. Physical Review Letters, 2000, 85, 1436-1439.	7.8	48
50	Scaling laws for the turbulent mixing of a passive scalar in the wake of a cylinder. Physics of Fluids, 1999, 11, 1869-1879.	4.0	32
51	Cascade structures and scaling exponents in a dynamical model of turbulence: Measurements and comparison. Physical Review E, 1997, 55, 2789-2799.	2.1	28
52	Viscous Effects on Inertial Range Scalings in a Dynamical Model of Turbulence. Physical Review Letters, 1995, 75, 2690-2693.	7.8	39
53	Universal scaling laws in fully developed turbulence. Physical Review Letters, 1994, 72, 336-339.	7.8	1,073