Enrico Calzavarini

List of Publications by Year in descending order

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257450 276875 1,721 55 24 41 citations h-index g-index papers 61 61 61 1087 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Three-dimensional turbulence effects on plankton dynamics behind an obstacle. European Physical Journal Plus, 2022, 137, 1.	2.6	1
2	Copepod swimming activity and turbulence intensity: study in the Agiturb turbulence generator system. European Physical Journal Plus, 2022, 137, 1.	2.6	1
3	Reactive scalars in incompressible turbulence with strongly out of equilibrium chemistry. Journal of Fluid Mechanics, 2022, 938, .	3.4	O
4	Dynamics of finite-size spheroids in turbulent flow: the roles of flow structures and particle boundary layers. Journal of Fluid Mechanics, 2022, 939, .	3.4	1
5	Residence time of inertial particles in 3D thermal convection: Implications for magma reservoirs. Earth and Planetary Science Letters, 2022, 591, 117622.	4.4	6
6	Rotational dynamics of bottom-heavy rods in turbulence from experiments and numerical simulations. Theoretical and Applied Mechanics Letters, $2021,11,100227.$	2.8	4
7	How the growth of ice depends on the fluid dynamics underneath. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	18
8	Statistical properties of two-dimensional elastic turbulence. Physical Review E, 2021, 104, 035103.	2.1	4
9	Ice front shaping by upward convective current. Physical Review Fluids, 2021, 6, .	2.5	10
10	Predator-prey plankton dynamics in turbulent flow past an obstacle. Physical Review Fluids, 2021, 6, .	2.5	2
11	A quadratic Reynolds stress development for the turbulent Kolmogorov flow. Physics of Fluids, 2021, 33, .	4.0	2
12	Effects of large-scale advection and small-scale turbulent diffusion on vertical phytoplankton dynamics. Physical Review E, 2021, 104, 065106.	2.1	5
13	Rotation of anisotropic particles in Rayleigh–Bénard turbulence. Journal of Fluid Mechanics, 2020, 901, .	3.4	12
14	Anisotropic particles in two-dimensional convective turbulence. Physics of Fluids, 2020, 32, 023305.	4.0	12
15	Settling of inertial particles in turbulent Rayleigh-Bénard convection. Physical Review Fluids, 2020, 5, .	2.5	24
16	Fluctuations and correlations of reactive scalars near chemical equilibrium in incompressible turbulence. Physical Review Fluids, 2020, 5, .	2.5	1
17	Modelling Sea Ice and Melt Ponds Evolution: Sensitivity to Microscale Heat Transfer Mechanisms. Springer INdAM Series, 2020, , 179-198.	0.5	1
18	Eulerian–Lagrangian fluid dynamics platform: The ch4-project. Software Impacts, 2019, 1, 100002.	1.4	10

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19	Robustness of heat transfer in confined inclined convection at high Prandtl number. Physical Review E, 2019, 99, 013108.	2.1	15
20	Particle-laden two-dimensional elastic turbulence. European Physical Journal E, 2018, 41, 115.	1.6	5
21	Basal melting driven by turbulent thermal convection. Physical Review Fluids, 2018, 3, .	2.5	30
22	Propelled microprobes in turbulence. Physical Review Fluids, 2018, 3, .	2.5	9
23	Copepods encounter rates from a model of escape jump behaviour in turbulence. Journal of Plankton Research, 2017, 39, 878-890.	1.8	11
24	Lagrangian model of copepod dynamics: Clustering by escape jumps in turbulence. Physical Review E, 2016, 93, 043117.	2.1	9
25	Microbubbles and Microparticles are Not Faithful Tracers of Turbulent Acceleration. Physical Review Letters, 2016, 117, 024501.	7.8	52
26	Finite-volume versus streaming-based lattice Boltzmann algorithm for fluid-dynamics simulations: A one-to-one accuracy and performance study. Physical Review E, 2016, 93, 023306.	2.1	7
27	Lagrangian single-particle turbulent statistics through the Hilbert-Huang transform. Physical Review E, 2013, 87, 041003.	2.1	35
28	How gravity and size affect the acceleration statistics of bubbles in turbulence. New Journal of Physics, 2012, 14, 105017.	2.9	26
29	Rotation Rate of Rods in Turbulent Fluid Flow. Physical Review Letters, 2012, 109, 134501.	7.8	144
30	Three-dimensional Lagrangian Vorono \tilde{A}^- analysis for clustering of particles and bubbles in turbulence. Journal of Fluid Mechanics, 2012, 693, 201-215.	3.4	83
31	Axially homogeneous Rayleigh–Bénard convection in a cylindrical cell. Journal of Fluid Mechanics, 2012, 691, 52-68.	3.4	25
32	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
33	Multi-time multi-scale correlation functions in hydrodynamic turbulence. Physics of Fluids, 2011, 23, 085107.	4.0	17
34	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
35	On the Error Estimate in Sub-Grid Models for Particles in Turbulent Flows. ERCOFTAC Series, 2011, , 171-176.	0.1	3
36	Exploring the limits of granular hydrodynamics: A horizontal array of inelastic particles. Physical Review E, 2009, 80, 011302.	2.1	6

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37	Velocity-gradient statistics along particle trajectories in turbulent flows: The refined similarity hypothesis in the Lagrangian frame. Physical Review E, 2009, 80, 066318.	2.1	48
38	Flow organization in two-dimensional non-Oberbeck–Boussinesq Rayleigh–Bénard convection in water. Journal of Fluid Mechanics, 2009, 637, 105-135.	3.4	90
39	Acceleration statistics of finite-sized particles in turbulent flow: the role of Faxén forces. Journal of Fluid Mechanics, 2009, 630, 179-189.	3.4	95
40	Various flow amplitudes in 2D non-Oberbeck-Boussinesq Rayleigh-Bénard convection in water. Springer Proceedings in Physics, 2009, , 479-482.	0.2	0
41	Acceleration of heavy and light particles in turbulence: Comparison between experiments and direct numerical simulations. Physica D: Nonlinear Phenomena, 2008, 237, 2084-2089.	2.8	76
42	Quantifying microbubble clustering in turbulent flow from single-point measurements. Physics of Fluids, 2008, 20, .	4.0	33
43	Universal Intermittent Properties of Particle Trajectories in Highly Turbulent Flows. Physical Review Letters, 2008, 100, 254504.	7.8	145
44	Non-Oberbeck-Boussinesq effects in turbulent thermal convection in ethane close to the critical point. Physical Review E, 2008, 77, 046302.	2.1	36
45	Quantifying Turbulence-Induced Segregation of Inertial Particles. Physical Review Letters, 2008, 101, 084504.	7.8	71
46	Microbubbly drag reduction in Taylor–Couette flow in the wavy vortex regime. Journal of Fluid Mechanics, 2008, 608, 21-41.	3.4	59
47	Dimensionality and morphology of particle and bubble clusters in turbulent flow. Journal of Fluid Mechanics, 2008, 607, 13-24.	3.4	103
48	Non–Oberbeck-Boussinesq effects in two-dimensional Rayleigh-Bénard convection in glycerol. Europhysics Letters, 2007, 80, 34002.	2.0	49
49	Numerical study of Non-Oberbeck-Boussinesq effects on the heat transport in turbulent Rayleigh-Bénard convection in liquids. , 2007, , 642-644.		0
50	Exponentially growing solutions in homogeneous Rayleigh-Bénard convection. Physical Review E, 2006, 73, 035301.	2.1	52
51	Rayleigh and Prandtl number scaling in the bulk of Rayleigh–Bénard turbulence. Physics of Fluids, 2005, 17, 055107.	4.0	79
52	Universality of anisotropic turbulence. Physica A: Statistical Mechanics and Its Applications, 2004, 338, 194-200.	2.6	7
53	Matched filters for coalescing binaries detection onÂmassivelyÂparallelÂcomputers. Computer Physics Communications, 2003, 152, 295-306.	7. 5	2
54	Universality of anisotropic fluctuations from numerical simulations of turbulent flows. Europhysics Letters, 2003, 64, 461-467.	2.0	29

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55	Evidences of Bolgiano-Obhukhov scaling in three-dimensional Rayleigh-Bénard convection. Physical Review E, 2002, 66, 016304.	2.1	61