

Giorgio Krstulovic

List of Publications by Year in descending order

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papers

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citations

471477

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all docs

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times ranked

478
citing authors

#	ARTICLE	IF	CITATIONS
1	Editorial: Scaling the Turbulence Edifice. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210101.	3.4	0
2	Editorial: Scaling the Turbulence Edifice (part 2). Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210102.	3.4	0
3	Critical velocity for vortex nucleation and roton emission in a generalized model for superfluids. Physical Review B, 2022, 105, .	3.2	9
4	Comment on "Theoretical analysis of quantum turbulence using the Onsager ideal turbulence theory". Physical Review E, 2022, 105, 027101.	2.1	2
5	Energy Spectrum of Two-Dimensional Acoustic Turbulence. Physical Review Letters, 2022, 128, .	7.8	15
6	Testing wave turbulence theory for the Gross-Pitaevskii system. Physical Review E, 2022, 106, .	2.1	11
7	Stochastic motion of finite-size immiscible impurities in a dilute quantum fluid at finite temperature. Physical Review B, 2021, 103, .	3.2	3
8	Intermittency of Velocity Circulation in Quantum Turbulence. Physical Review X, 2021, 11, .	8.9	13
9	On the determination of vortex ring vorticity using Lagrangian particles. Journal of Fluid Mechanics, 2021, 924, .	3.4	6
10	Vortex clustering, polarisation and circulation intermittency in classical and quantum turbulence. Nature Communications, 2021, 12, 7090.	12.8	13
11	Irreversible Dynamics of Vortex Reconnections in Quantum Fluids. Physical Review Letters, 2020, 125, 164501.	7.8	17
12	A new self-consistent approach of quantum turbulence in superfluid helium. European Physical Journal Plus, 2020, 135, 1.	2.6	20
13	Counterflow-Induced Inverse Energy Cascade in Three-Dimensional Superfluid Turbulence. Physical Review Letters, 2020, 125, 254504.	7.8	7
14	Kolmogorov and Kelvin wave cascades in a generalized model for quantum turbulence. Physical Review B, 2020, 102, .	3.2	10
15	Quantum vortex reconnections mediated by trapped particles. Physical Review B, 2020, 102, .	3.2	4
16	Inhomogeneous distribution of particles in coflow and counterflow quantum turbulence. Physical Review Fluids, 2020, 5, .	2.5	10
17	Active and finite-size particles in decaying quantum turbulence at low temperature. Physical Review Fluids, 2020, 5, .	2.5	6
18	Matching theory to characterize sound emission during vortex reconnection in quantum fluids. Physical Review Fluids, 2020, 5, .	2.5	7

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19	How trapped particles interact with and sample superfluid vortex excitations. Physical Review Research, 2020, 2, .	3.6	10
20	Phase transition in time-reversible Navier-Stokes equations. Physical Review E, 2019, 100, 043104.	2.1	12
21	Clustering and phase transitions in a 2D superfluid with immiscible active impurities. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 305501.	2.1	9
22	Elastic weak turbulence: From the vibrating plate to the drum. Physical Review E, 2019, 99, 033002.	2.1	11
23	Interaction between active particles and quantum vortices leading to Kelvin wave generation. Scientific Reports, 2019, 9, 4839.	3.3	17
24	Quantitative estimation of effective viscosity in quantum turbulence. Physical Review A, 2019, 99, .	2.5	19
25	Strong turbulence for vibrating plates: Emergence of a Kolmogorov spectrum. Physical Review Fluids, 2019, 4, .	2.5	11
26	Exact result in strong wave turbulence of thin elastic plates. Physical Review E, 2018, 97, 020201.	2.1	6
27	Tumbling dynamics of inertial inextensible chains in extensional flow. Physical Review E, 2018, 98, 023107.	2.1	1
28	Statistical steady state in turbulent droplet condensation. Journal of Fluid Mechanics, 2017, 810, 254-280.	3.4	31
29	Universal and nonuniversal aspects of vortex reconnections in superfluids. Physical Review Fluids, 2017, 2, .	2.5	45
30	A lattice method for the Eulerian simulation of heavy particle suspensions. Comptes Rendus - Mecanique, 2016, 344, 672-683.	2.1	0
31	Grid superfluid turbulence and intermittency at very low temperature. Physical Review E, 2016, 93, 063104.	2.1	11
32	Depletion of nonlinearity in magnetohydrodynamic turbulence: Insights from analysis and simulations. Physical Review E, 2016, 93, 043104.	2.1	7
33	Evolution of a superfluid vortex filament tangle driven by the Gross-Pitaevskii equation. Physical Review E, 2016, 93, 061103.	2.1	21
34	A vortex filament tracking method for the Gross-Pitaevskii model of a superfluid. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 415502.	2.1	33
35	Self-truncation and scaling in Euler-Voigt and related fluid models. Physical Review E, 2015, 92, 013020.	2.1	6
36	Structures and Lagrangian statistics of the Taylor-Green dynamo. New Journal of Physics, 2014, 16, 075014.	2.9	7

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37	Clustering, Fronts, and Heat Transfer in Turbulent Suspensions of Heavy Particles. <i>Physical Review Letters</i> , 2014, 112, 234503.	7.8	20
38	Forced magnetohydrodynamic turbulence in three dimensions using Taylor-Green symmetries. <i>Physical Review E</i> , 2014, 89, 043017.	2.1	4
39	Turbulent pair dispersion as a continuous-time random walk. <i>Journal of Fluid Mechanics</i> , 2014, 755, .	3.4	25
40	Ideal evolution of magnetohydrodynamic turbulence when imposing Taylor-Green symmetries. <i>Physical Review E</i> , 2013, 87, 013110.	2.1	22
41	Effective Rates in Dilute Reaction-Advection Systems for the Annihilation Process $A+A\hat{\tau}\hat{\tau}\dots$. <i>Journal of Statistical Physics</i> , 2013, 153, 530-550.	1.2	1
42	Diffusion in time-dependent random environments: mass fluctuations and scaling properties. <i>New Journal of Physics</i> , 2012, 14, 073053.	2.9	0
43	Kelvin-wave cascade and dissipation in low-temperature superfluid vortices. <i>Physical Review E</i> , 2012, 86, 055301.	2.1	41
44	Axial dipolar dynamo action in the Taylor-Green vortex. <i>Physical Review E</i> , 2011, 84, 066318.	2.1	39
45	Alfvén waves and ideal two-dimensional Galerkin truncated magnetohydrodynamics. <i>Physical Review E</i> , 2011, 84, 016410.	2.1	16
46	Energy cascade with small-scale thermalization, counterflow metastability, and anomalous velocity of vortex rings in Fourier-truncated Gross-Pitaevskii equation. <i>Physical Review E</i> , 2011, 83, 066311.	2.1	54
47	Krstulovic and Brachet Reply:. <i>Physical Review Letters</i> , 2011, 107, .	7.8	1
48	Anomalous vortex-ring velocities induced by thermally excited Kelvin waves and counterflow effects in superfluids. <i>Physical Review B</i> , 2011, 83, .	3.2	20
49	Dispersive Bottleneck Delaying Thermalization of Turbulent Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2011, 106, 115303.	7.8	32
50	Comment on "Superfluid Turbulence from Quantum Kelvin Wave to Classical Kolmogorov Cascades". <i>Physical Review Letters</i> , 2010, 105, 129401; author reply 129402.	7.8	13
51	Cascades, thermalization, and eddy viscosity in helical Galerkin truncated Euler flows. <i>Physical Review E</i> , 2009, 79, 056304.	2.1	71
52	GENERATION AND CHARACTERIZATION OF ABSOLUTE EQUILIBRIUM OF COMPRESSIBLE FLOWS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2009, 19, 3445-3459.	1.7	10
53	Two-fluid model of the truncated Euler equations. <i>Physica D: Nonlinear Phenomena</i> , 2008, 237, 2015-2019.	2.8	21
54	Radiation and vortex dynamics in the nonlinear Schrödinger equation. <i>Physical Review E</i> , 2008, 78, 026601.	2.1	9

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55	Scaling laws in granular continuous avalanches in a rotating drum. Physica A: Statistical Mechanics and Its Applications, 2005, 356, 178-183.	2.6	10