

Giorgio Krstulovic

List of Publications by Year in descending order

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| # | 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 |

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

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 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 |