

# Debarghya Banerjee

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

521  
citations

840776

11  
h-index

752698

20  
g-index

20  
all docs

20  
docs citations

20  
times ranked

495  
citing authors

#	ARTICLE	IF	CITATIONS
1	Odd elasticity. <i>Nature Physics</i> , 2020, 16, 475-480.	16.7	142
2	Topological structure and dynamics of three-dimensional active nematics. <i>Science</i> , 2020, 367, 1120-1124.	12.6	135
3	Active Viscoelasticity of Odd Materials. <i>Physical Review Letters</i> , 2021, 126, 138001.	7.8	28
4	An overview of the statistical properties of two-dimensional turbulence in fluids with particles, conducting fluids, fluids with polymer additives, binary-fluid mixtures, and superfluids. <i>Physics of Fluids</i> , 2017, 29, 111112.	4.0	27
5	Vorticity moments in four numerical simulations of the 3D Navier–Stokes equations. <i>Journal of Fluid Mechanics</i> , 2013, 732, 316-331.	3.4	25
6	Transition from dissipative to conservative dynamics in equations of hydrodynamics. <i>Physical Review E</i> , 2014, 90, 041001.	2.1	24
7	Real-Space Manifestations of Bottlenecks in Turbulence Spectra. <i>Physical Review Letters</i> , 2013, 110, 064501.	7.8	21
8	Two-dimensional homogeneous isotropic fluid turbulence with polymer additives. <i>Physical Review E</i> , 2015, 91, 033013.	2.1	16
9	Multiscaling in Hall-Magnetohydrodynamic Turbulence: Insights from a Shell Model. <i>Physical Review Letters</i> , 2013, 111, 174501.	7.8	13
10	Binary-fluid turbulence: Signatures of multifractal droplet dynamics and dissipation reduction. <i>Physical Review E</i> , 2016, 93, 063115.	2.1	12
11	Melting of a nonequilibrium vortex crystal in a fluid film with polymers: Elastic versus fluid turbulence. <i>Physical Review E</i> , 2017, 95, 033119.	2.1	12
12	How long do particles spend in vortical regions in turbulent flows?. <i>Physical Review E</i> , 2016, 94, 053119.	2.1	11
13	Homogeneous isotropic superfluid turbulence in two dimensions: Inverse and forward cascades in the Hall-Vinen-Bekharevich-Khalatnikov model. <i>Physical Review B</i> , 2015, 92, .	3.2	10
14	Lyapunov dimension of elastic turbulence. <i>Journal of Fluid Mechanics</i> , 2017, 822, .	3.4	10
15	Elliptical tracers in two-dimensional, homogeneous, isotropic fluid turbulence: The statistics of alignment, rotation, and nematic order. <i>Physical Review E</i> , 2014, 89, 021001.	2.1	9
16	Statistics of the inverse-cascade regime in two-dimensional magnetohydrodynamic turbulence. <i>Physical Review E</i> , 2014, 90, 013018.	2.1	8
17	Two-dimensional magnetohydrodynamic turbulence with large and small energy-injection length scales. <i>Physics of Fluids</i> , 2019, 31, 065111.	4.0	7
18	Regularity criterion for solutions of the three-dimensional Cahn-Hilliard-Navier-Stokes equations and associated computations. <i>Physical Review E</i> , 2016, 94, 063103.	2.1	6

#	ARTICLE	IF	CITATIONS
19	Hydrodynamic correlation functions of chiral active fluids. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	4
20	Fractional hyperviscosity induced growth of bottlenecks in energy spectrum of Burgers equation solutions. <i>European Physical Journal B</i> , 2019, 92, 1.	1.5	1