Debarghya Banerjee

List of Publications by Year
in descending order

20	521	840776	752698
papers	citations	11	20
		h-index	g-index

20	20	20	495
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hydrodynamic correlation functions of chiral active fluids. Physical Review Fluids, 2022, 7, .	2.5	4
2	Active Viscoelasticity of Odd Materials. Physical Review Letters, 2021, 126, 138001.	7.8	28
3	Topological structure and dynamics of three-dimensional active nematics. Science, 2020, 367, 1120-1124.	12.6	135
4	Odd elasticity. Nature Physics, 2020, 16, 475-480.	16.7	142
5	Two-dimensional magnetohydrodynamic turbulence with large and small energy-injection length scales. Physics of Fluids, 2019, 31, 065111.	4.0	7
6	Fractional hyperviscosity induced growth of bottlenecks in energy spectrum of Burgers equation solutions. European Physical Journal B, 2019, 92, 1.	1.5	1
7	Lyapunov dimension of elastic turbulence. Journal of Fluid Mechanics, 2017, 822, .	3.4	10
8	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. Physics of Fluids, 2017, 29, 111112.	4.0	27
9	Melting of a nonequilibrium vortex crystal in a fluid film with polymers: Elastic versus fluid turbulence. Physical Review E, 2017, 95, 033119.	2.1	12
10	Regularity criterion for solutions of the three-dimensional Cahn-Hilliard-Navier-Stokes equations and associated computations. Physical Review E, 2016, 94, 063103.	2.1	6
11	How long do particles spend in vortical regions in turbulent flows?. Physical Review E, 2016, 94, 053119.	2.1	11
12	Binary-fluid turbulence: Signatures of multifractal droplet dynamics and dissipation reduction. Physical Review E, 2016, 93, 063115.	2.1	12
13	Homogeneous isotropic superfluid turbulence in two dimensions: Inverse and forward cascades in the Hall-Vinen-Bekharevich-Khalatnikov model. Physical Review B, 2015, 92, .	3.2	10
14	Two-dimensional homogeneous isotropic fluid turbulence with polymer additives. Physical Review E, 2015, 91, 033013.	2.1	16
15	Elliptical tracers in two-dimensional, homogeneous, isotropic fluid turbulence: The statistics of alignment, rotation, and nematic order. Physical Review E, 2014, 89, 021001.	2.1	9
16	Transition from dissipative to conservative dynamics in equations of hydrodynamics. Physical Review E, 2014, 90, 041001.	2.1	24
17	Statistics of the inverse-cascade regime in two-dimensional magnetohydrodynamic turbulence. Physical Review E, 2014, 90, 013018.	2.1	8
18	Vorticity moments in four numerical simulations of the 3D Navier–Stokes equations. Journal of Fluid Mechanics, 2013, 732, 316-331.	3.4	25

#	Article	IF	Citations
19	Real-Space Manifestations of Bottlenecks in Turbulence Spectra. Physical Review Letters, 2013, 110, 064501.	7.8	21
20	Multiscaling in Hall-Magnetohydrodynamic Turbulence: Insights from a Shell Model. Physical Review Letters, 2013, 111, 174501.	7.8	13