Gautier Verhille

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/728037/publications.pdf

Version: 2024-02-01

25	464	623574 14	677027 22
papers	citations	h-index	g-index

25	25	25	359
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Acceleration of heavy and light particles in turbulence: Comparison between experiments and direct numerical simulations. Physica D: Nonlinear Phenomena, 2008, 237, 2084-2089.	1.3	76
2	Dynamo regimes and transitions in the VKS experiment. European Physical Journal B, 2010, 77, 459-468.	0.6	70
3	Flexible Fiber in a Turbulent Flow: A Macroscopic Polymer. Physical Review Letters, 2014, 112, 074501.	2.9	44
4	Dynamo threshold detection in the von KÃ¡rmÃ¡n sodium experiment. Physical Review E, 2013, 88, 013002.	0.8	29
5	Induction in a von KÃ¡rmÃ¡n flow driven by ferromagnetic impellers. New Journal of Physics, 2010, 12, 033006.	1.2	27
6	Tumbling of Inertial Fibers in Turbulence. Physical Review Letters, 2018, 121, 124502.	2.9	27
7	Laboratory Dynamo Experiments. Space Science Reviews, 2010, 152, 543-564.	3.7	25
8	3D conformation of a flexible fiber in a turbulent flow. Experiments in Fluids, 2016, 57, 1.	1.1	21
9	Structure and mechanics of aegagropilae fiber network. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4607-4612.	3.3	19
10	Laboratory model for plastic fragmentation in the turbulent ocean. Physical Review Fluids, 2021, 6, .	1.0	18
11	Dynamics of a turbulent spin-down flow inside a torus. Physics of Fluids, 2009, 21, 045108.	1.6	16
12	DIRECT OBSERVATION OF THE TURBULENT emf AND TRANSPORT OF MAGNETIC FIELD IN A LIQUID SODIUM EXPERIMENT. Astrophysical Journal, 2012, 759, 80.	1.6	16
13	The magnetic-distortion probe: Velocimetry in conducting fluids. Review of Scientific Instruments, 2011, 82, 095112.	0.6	14
14	Experimental Observation of Spatially Localized Dynamo Magnetic Fields. Physical Review Letters, 2012, 108, 144501.	2.9	14
15	Spinning and tumbling of long fibers in isotropic turbulence. Physical Review Fluids, 2021, 6, .	1.0	12
16	Numerical modelling of long flexible fibers in homogeneous isotropic turbulence. European Physical Journal E, 2019, 42, 132.	0.7	9
17	Lagrangian Time Scale of Passive Rotation for Mesoscale Particles in Turbulence. Frontiers in Marine Science, 2020, 7, .	1.2	8
18	Large-scale fluctuations and dynamics of the Bullardâ€“von KÃ¡rmÃ¡n dynamo. Geophysical and Astrophysical Fluid Dynamics, 2010, 104, 189-205.	0.4	6

#	Article	IF	Citations
19	Deformability of discs in turbulence. Journal of Fluid Mechanics, 2022, 933, .	1.4	5
20	Transition from hydrodynamic turbulence to magnetohydrodynamic turbulence in von KÃ¡rmÃ¡n flows. Journal of Fluid Mechanics, 2012, 693, 243-260.	1.4	4
21	Dynamo efficiency controlled by hydrodynamic bistability. Physical Review E, 2014, 89, 063023.	0.8	2
22	Publisher's Note: Dynamo efficiency controlled by hydrodynamic bistability [Phys. Rev. E89, 063023 (2014)]. Physical Review E, 2014, 90, .	0.8	1
23	Laboratory Dynamo Experiments. Space Sciences Series of ISSI, 2009, , 543-564.	0.0	1
24	Aggregation of Fibers by Waves. , 2018, , 127-136.		0
25	Architecture of a self-fragmenting droplets cascade. Physical Review E, 2021, 104, L053101.	0.8	0