

Basile Gallet

List of Publications by Year in descending order

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35
papers

782
citations

516561

16
h-index

501076

28
g-index

35
all docs

35
docs citations

35
times ranked

498
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamo regimes and transitions in the VKS experiment. <i>European Physical Journal B</i> , 2010, 77, 459-468.	0.6	70
2	Direct and inverse energy cascades in a forced rotating turbulence experiment. <i>Physics of Fluids</i> , 2014, 26, .	1.6	57
3	Radiative heating achieves the ultimate regime of thermal convection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8937-8941.	3.3	56
4	Transition to the ultimate regime in a radiatively driven convection experiment. <i>Journal of Fluid Mechanics</i> , 2019, 861, .	1.4	48
5	Exact two-dimensionalization of rapidly rotating large-Reynolds-number flows. <i>Journal of Fluid Mechanics</i> , 2015, 783, 412-447.	1.4	44
6	Reversals of a large-scale field generated over a turbulent background. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2012, 106, 468-492.	0.4	43
7	Refraction of swell by surface currents. <i>Journal of Marine Research</i> , 2014, 72, 105-126.	0.3	41
8	Exact two-dimensionalization of low-magnetic-Reynolds-number flows subject to a strong magnetic field. <i>Journal of Fluid Mechanics</i> , 2015, 773, 154-177.	1.4	41
9	Disentangling inertial waves from eddy turbulence in a forced rotating-turbulence experiment. <i>Physical Review E</i> , 2015, 91, 043016.	0.8	37
10	A two-dimensional vortex condensate at high Reynolds number. <i>Journal of Fluid Mechanics</i> , 2013, 715, 359-388.	1.4	33
11	Scale-dependent cyclone-anticyclone asymmetry in a forced rotating turbulence experiment. <i>Physics of Fluids</i> , 2014, 26, 035108.	1.6	33
12	Quantitative Experimental Observation of Weak Inertial-Wave Turbulence. <i>Physical Review Letters</i> , 2020, 125, 254502.	2.9	32
13	Shortcut to Geostrophy in Wave-Driven Rotating Turbulence: The Quartetic Instability. <i>Physical Review Letters</i> , 2020, 124, 124501.	2.9	28
14	Bistability between a stationary and an oscillatory dynamo in a turbulent flow of liquid sodium. <i>Journal of Fluid Mechanics</i> , 2009, 641, 217-226.	1.4	25
15	Influence of an external magnetic field on forced turbulence in a swirling flow of liquid metal. <i>Physics of Fluids</i> , 2009, 21, .	1.6	23
16	The vortex gas scaling regime of baroclinic turbulence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 4491-4497.	3.3	19
17	Near-resonant instability of geostrophic modes: beyond Greenspan's theorem. <i>Journal of Fluid Mechanics</i> , 2020, 900, .	1.4	16
18	Convection driven by internal heat sources and sinks: Heat transport beyond the mixing-length or "ultimate" scaling regime. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	16

#	ARTICLE	IF	CITATIONS
19	Experimental Observation of Spatially Localized Dynamo Magnetic Fields. <i>Physical Review Letters</i> , 2012, 108, 144501.	2.9	14
20	Turbulent drag in a rotating frame. <i>Journal of Fluid Mechanics</i> , 2016, 794, .	1.4	14
21	Spatial variations of magnetic permeability as a source of dynamo action. <i>Journal of Fluid Mechanics</i> , 2013, 727, 161-190.	1.4	13
22	Experimental observation of the geostrophic turbulence regime of rapidly rotating convection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	13
23	A Quantitative Scaling Theory for Meridional Heat Transport in Planetary Atmospheres and Oceans. <i>AGU Advances</i> , 2021, 2, e2020AV000362.	2.3	12
24	On the role of the Prandtl number in convection driven by heat sources and sinks. <i>Journal of Fluid Mechanics</i> , 2020, 900, .	1.4	9
25	Onset of three-dimensionality in rapidly rotating turbulent flows. <i>Journal of Fluid Mechanics</i> , 2020, 901, .	1.4	9
26	Dynamo action due to spatially dependent magnetic permeability. <i>Europhysics Letters</i> , 2012, 97, 69001.	0.7	8
27	Transition to Turbulent Dynamo Saturation. <i>Physical Review Letters</i> , 2017, 119, 204503.	2.9	8
28	Enhanced dynamo growth in nonhomogeneous conducting fluids. <i>Physical Review E</i> , 2021, 104, 015110.	0.8	4
29	Oscillatory instability of interacting grains in a turbulent flow. <i>Europhysics Letters</i> , 2009, 87, 54004.	0.7	3
30	Drifting patterns as field reversals. <i>Europhysics Letters</i> , 2015, 112, 54007.	0.7	3
31	Dynamo saturation down to vanishing viscosity: strong-field and inertial scaling regimes. <i>Journal of Fluid Mechanics</i> , 2019, 864, 971-994.	1.4	3
32	Velocity-informed upper bounds on the convective heat transport induced by internal heat sources and sinks. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20210034.	1.6	3
33	Near-Inertial Waves and Turbulence Driven by the Growth of Swell. <i>Journal of Physical Oceanography</i> , 2021, 51, 1337-1351.	0.7	2
34	Inverse cascade suppression and shear-layer formation in magnetohydrodynamic turbulence subject to a guide field and misaligned rotation. <i>Journal of Fluid Mechanics</i> , 2022, 935, .	1.4	2
35	Surface-wave Doppler velocimetry in a liquid metal: Inferring the bifurcations of the subsurface flow. <i>Europhysics Letters</i> , 2017, 119, 24001.	0.7	0