Christophe Gissinger

List of Publications by Year
in descending order

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30 papers	531 citations	759233 12 h-index	642732 23 g-index
30 all docs	30 docs citations	30 times ranked	349 citing authors

#	Article	IF	Citations
1	Enhanced dynamo growth in nonhomogeneous conducting fluids. Physical Review E, 2021, 104, 015110.	2.1	4
2	Turbulence in electromagnetically driven Keplerian flows. Journal of Fluid Mechanics, 2021, 924, .	3.4	4
3	Magnetohydrodynamics of stably stratified regions in planets and stars. Geophysical and Astrophysical Fluid Dynamics, 2020, 114, 336-355.	1.2	6
4	A magnetically driven equatorial jet in Europaâ€™s ocean. Nature Astronomy, 2019, 3, 401-407.	10.1	20
5	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mi>f</mml:mi> noise and long-term memory of coherent structures in a turbulent shear flow. Physical Review E, 2019, 99, 023106.	2.1	11
6	Capillary wave turbulence experiments in microgravity. Europhysics Letters, 2019, 128, 34001.	2.0	8
7	Effect of fluctuations on mean-field dynamos. Journal of Plasma Physics, 2018, 84, .	2.1	2
8	Instabilities of MHD flows driven by traveling magnetic fields. Physical Review Fluids, 2018, 3, .	2.5	5
9	Instability in electromagnetically driven flows. I. Physics of Fluids, 2016, 28, .	4.0	11
10	Instability in electromagnetically driven flows. II. Physics of Fluids, 2016, 28, .	4.0	9
11	Fluctuations of Electrical Conductivity: A New Source for Astrophysical Magnetic Fields. Physical Review Letters, 2016, 116, 161102.	7.8	10
12	Dynamo generated by the centrifugal instability. Physical Review Fluids, 2016, 1, .	2.5	8
13	Wave-induced motion of magnetic spheres. Europhysics Letters, 2015, 112, 50003.	2.0	2
14	Dynamo efficiency controlled by hydrodynamic bistability. Physical Review E, 2014, 89, 063023.	2.1	2
15	Publisher's Note: Dynamo efficiency controlled by hydrodynamic bistability [Phys. Rev. E89, 063023 (2014)]. Physical Review E, 2014, 90, .	2.1	1
16	The Taylor-vortex dynamo. Physics of Fluids, 2014, 26, 044101.	4.0	6
17	Energy transfers during dynamo reversals. Europhysics Letters, 2013, 104, 69002.	2.0	2
18	Observation of a Free-Shercliff-Layer Instability in Cylindrical Geometry. Physical Review Letters, 2012, 108, 154502.	7.8	33

#	Article	IF	Citations
19	Bistability between Equatorial and Axial Dipoles during Magnetic Field Reversals. Physical Review Letters, 2012, 108, 234501.	7.8	16
20	The role of boundaries in the magnetorotational instability. Physics of Fluids, 2012, 24, .	4.0	26
21	A new deterministic model for chaotic reversals. European Physical Journal B, 2012, 85, 1.	1.5	25
22	Instabilities in magnetized spherical Couette flow. Physical Review E, 2011, 84, 026308.	2.1	45
23	Morphology of field reversals in turbulent dynamos. Europhysics Letters, 2010, 90, 49001.	2.0	50
24	Dynamo regimes and transitions in the VKS experiment. European Physical Journal B, 2010, 77, 459-468.	1.5	70
25	Dipole-quadrupole dynamics during magnetic field reversals. Physical Review E, 2010, 82, 056302.	2.1	6
26	A numerical model of the VKS experiment. Europhysics Letters, 2009, 87, 39002.	2.0	37
27	Direct numerical simulations of the galactic dynamo in the kinematic growing phase. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 394, L84-L88.	3.3	40
28	Reversals of the magnetic field generated by a turbulent flow. Springer Proceedings in Physics, 2009, , 801-808.	0.2	0
29	Effect of magnetic boundary conditions on the dynamo threshold of von KÃ¡rmÃ¡n swirling flows. Europhysics Letters, 2008, 82, 29001.	2.0	48
30	Bypassing Cowlingâ€™s Theorem in Axisymmetric Fluid Dynamos. Physical Review Letters, 2008, 101, 144502.	7.8	24