Philippe Marti

List of Publications by Year
in descending order

20 papers	565 citations	516710 16 h-index	794594 19 g-index
22 all docs	22 docs citations	22 times ranked	324 citing authors

#	ARTICLE	IF	CITATIONS
1	Waves in the Earth's core. II. Magneto–Coriolis modes. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2022, 478, .	2.1	4
2	Accurate and efficient Jones-Worland spectral transforms for planetary applications. , 2021, , .		2
3	Heat transfer and flow regimes in quasi-static magnetoconvection with a vertical magnetic field. Journal of Fluid Mechanics, 2019, 877, 1186-1206.	3.4	27
4	Magnetic quenching of the inverse cascade in rapidly rotating convective turbulence. Physical Review Fluids, 2019, 4, .	2.5	7
5	Sensitivity of rapidly rotating Rayleigh-Bénard convection to Ekman pumping. Physical Review Fluids, 2017, 2, .	2.5	17
6	The effects of Ekman pumping on quasi-geostrophic Rayleigh–Bénard convection. Journal of Fluid Mechanics, 2016, 803, 51-71.	3.4	56
7	A nonlinear model for rotationally constrained convection with Ekman pumping. Journal of Fluid Mechanics, 2016, 798, 50-87.	3.4	46
8	Precession-driven dynamos in a full sphere and the role of large scale cyclonic vortices. Physics of Fluids, 2016, 28, .	4.0	54
9	A computationally efficient spectral method for modeling core dynamics. Geochemistry, Geophysics, Geosystems, 2016, 17, 3031-3053.	2.5	21
10	Convection-driven kinematic dynamos at low Rossby and magnetic Prandtl numbers: Single mode solutions. Physical Review E, 2016, 93, 023115.	2.1	16
11	Performance benchmarks for a next generation numerical dynamo model. Geochemistry, Geophysics, Geosystems, 2016, 17, 1586-1607.	2.5	66
12	A fully spectral methodology for magnetohydrodynamic calculations in a whole sphere. Journal of Computational Physics, 2016, 305, 403-422.	3.8	11
13	The asymptotic equivalence of fixed heat flux and fixed temperature thermal boundary conditions for rapidly rotating convection. Journal of Fluid Mechanics, 2015, 784, .	3.4	19
14	Onset of rotating and non-rotating convection in compressible and anelastic ideal gases. Geophysical and Astrophysical Fluid Dynamics, 2015, 109, 422-449.	1.2	17
15	Shear-driven parametric instability in a precessing sphere. Physics of Fluids, 2015, 27, .	4.0	68
16	The breakdown of the anelastic approximation in rotating compressible convection: implications for astrophysical systems. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20140689.	2.1	19
17	A spherical shell numerical dynamo benchmark with pseudo-vacuum magnetic boundary conditions. Geophysical Journal International, 2014, 196, 712-723.	2.4	25
18	Full sphere hydrodynamic and dynamo benchmarks. Geophysical Journal International, 2014, 197, 119-134.	2.4	41

#	ARTICLE	IF	CITATIONS
19	Three-dimensional quasi-geostrophic convection in the rotating cylindrical annulus with steeply sloping endwalls. Journal of Fluid Mechanics, 2013, 732, 214-244.	3.4	29
20	Parity-breaking flows in precessing spherical containers. Physical Review E, 2013, 87, 053020.	2.1	19