

# Philippe Marti

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Shear-driven parametric instability in a precessing sphere. <i>Physics of Fluids</i> , 2015, 27, .	4.0	68
2	Performance benchmarks for a next generation numerical dynamo model. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 1586-1607.	2.5	66
3	The effects of Ekman pumping on quasi-geostrophic Rayleigh-Bénard convection. <i>Journal of Fluid Mechanics</i> , 2016, 803, 51-71.	3.4	56
4	Precession-driven dynamos in a full sphere and the role of large scale cyclonic vortices. <i>Physics of Fluids</i> , 2016, 28, .	4.0	54
5	A nonlinear model for rotationally constrained convection with Ekman pumping. <i>Journal of Fluid Mechanics</i> , 2016, 798, 50-87.	3.4	46
6	Full sphere hydrodynamic and dynamo benchmarks. <i>Geophysical Journal International</i> , 2014, 197, 119-134.	2.4	41
7	Three-dimensional quasi-geostrophic convection in the rotating cylindrical annulus with steeply sloping endwalls. <i>Journal of Fluid Mechanics</i> , 2013, 732, 214-244.	3.4	29
8	Heat transfer and flow regimes in quasi-static magnetoconvection with a vertical magnetic field. <i>Journal of Fluid Mechanics</i> , 2019, 877, 1186-1206.	3.4	27
9	A spherical shell numerical dynamo benchmark with pseudo-vacuum magnetic boundary conditions. <i>Geophysical Journal International</i> , 2014, 196, 712-723.	2.4	25
10	A computationally efficient spectral method for modeling core dynamics. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 3031-3053.	2.5	21
11	Parity-breaking flows in precessing spherical containers. <i>Physical Review E</i> , 2013, 87, 053020.	2.1	19
12	The asymptotic equivalence of fixed heat flux and fixed temperature thermal boundary conditions for rapidly rotating convection. <i>Journal of Fluid Mechanics</i> , 2015, 784, .	3.4	19
13	The breakdown of the anelastic approximation in rotating compressible convection: implications for astrophysical systems. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20140689.	2.1	19
14	Onset of rotating and non-rotating convection in compressible and anelastic ideal gases. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2015, 109, 422-449.	1.2	17
15	Sensitivity of rapidly rotating Rayleigh-Bénard convection to Ekman pumping. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	17
16	Convection-driven kinematic dynamos at low Rossby and magnetic Prandtl numbers: Single mode solutions. <i>Physical Review E</i> , 2016, 93, 023115.	2.1	16
17	A fully spectral methodology for magnetohydrodynamic calculations in a whole sphere. <i>Journal of Computational Physics</i> , 2016, 305, 403-422.	3.8	11
18	Magnetic quenching of the inverse cascade in rapidly rotating convective turbulence. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	7

#	ARTICLE	IF	CITATIONS
19	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
20	Accurate and efficient Jones-Worland spectral transforms for planetary applications. , 2021, , .		2