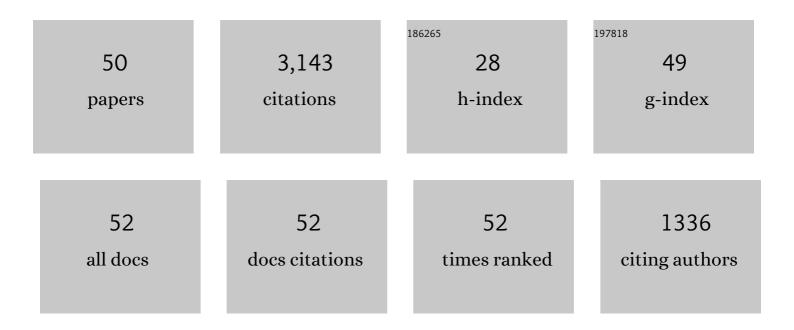
Henri-Claude Nataf

List of Publications by Year in descending order

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HENDI-CLAUDE NATAE

#	Article	IF	CITATIONS
1	Sustaining Earth's magnetic dynamo. Nature Reviews Earth & Environment, 2022, 3, 255-269.	29.7	21
2	Acoustic spectra of a gas-filled rotating spheroid. European Journal of Mechanics, B/Fluids, 2020, 84, 302-310.	2.5	8
3	Torsional Alfvén waves in a dipolar magnetic field: experiments and simulations. Geophysical Journal International, 2019, 219, S83-S100.	2.4	7
4	Dynamic domains of the Derviche Tourneur sodium experiment: Simulations of a spherical magnetized Couette flow. Physical Review Fluids, 2018, 3, .	2.5	12
5	Turbulent geodynamo simulations: a leap towards Earth's core. Geophysical Journal International, 2017, 211, 1-29.	2.4	171
6	Turbulence in the Core. , 2015, , 161-181.		22
7	Helioseismology in a bottle: modal acoustic velocimetry. New Journal of Physics, 2014, 16, 113005.	2.9	6
8	Magnetic induction and diffusion mechanisms in a liquid sodium spherical Couette experiment. Physical Review E, 2014, 90, 043018.	2.1	7
9	Turbulence Reduces Magnetic Diffusivity in a Liquid Sodium Experiment. Physical Review Letters, 2014, 113, 184501.	7.8	17
10	A turbulent, high magnetic Reynolds number experimental model of Earth's core. Journal of Geophysical Research: Solid Earth, 2014, 119, 4538-4557.	3.4	37
11	Magnetic induction maps in a magnetized spherical Couette flow experiment. Comptes Rendus Physique, 2013, 14, 248-267.	0.9	11
12	Modes and instabilities in magnetized spherical Couette flow. Journal of Fluid Mechanics, 2013, 716, 445-469.	3.4	29
13	Magneto–Coriolis waves in a spherical Couette flow experiment. European Journal of Mechanics, B/Fluids, 2013, 37, 10-22.	2.5	18
14	Zonal shear and super-rotation in a magnetized spherical Couette-flow experiment. Physical Review E, 2011, 83, 066310.	2.1	29
15	On the peculiar nature of turbulence in planetary dynamos. Comptes Rendus Physique, 2008, 9, 702-710.	0.9	14
16	Rapidly rotating spherical Couette flow in a dipolar magnetic field: An experimental study of the mean axisymmetric flow. Physics of the Earth and Planetary Interiors, 2008, 170, 60-72.	1.9	40
17	Rotating spherical Couette flow in a dipolar magnetic field: experimental study of magneto-inertial waves. Journal of Fluid Mechanics, 2008, 604, 175-197.	3.4	64
18	Experimental and numerical studies of convection in a rapidly rotating spherical shell. Journal of Fluid Mechanics, 2007, 580, 83-121.	3.4	52

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#	Article	IF	CITATIONS
19	Experimental and numerical studies of magnetoconvection in a rapidly rotating spherical shell. Journal of Fluid Mechanics, 2007, 580, 123-143.	3.4	24
20	Experimental study of super-rotation in a magnetostrophic spherical Couette flow. Geophysical and Astrophysical Fluid Dynamics, 2006, 100, 281-298.	1.2	54
21	A systematic experimental study of rapidly rotating spherical convection in water and liquid gallium. Physics of the Earth and Planetary Interiors, 2001, 128, 51-74.	1.9	124
22	Ultrasonic Doppler velocimetry in liquid gallium. Experiments in Fluids, 2001, 31, 653-663.	2.4	128
23	Inner core takes another turn. Nature, 2000, 405, 411-412.	27.8	0
24	Seismic Imaging of Mantle Plumes. Annual Review of Earth and Planetary Sciences, 2000, 28, 391-417.	11.0	102
25	Scattering of S waves diffracted at the coremantle boundary: forward modelling. Geophysical Journal International, 1999, 139, 325-344.	2.4	10
26	Detection of mantle plumes in the lower mantle by diffraction tomography: theory. Earth and Planetary Science Letters, 1998, 159, 87-98.	4.4	21
27	Detection of mantle plumes in the lower mantle by diffraction tomography: Hawaii. Earth and Planetary Science Letters, 1998, 159, 99-115.	4.4	55
28	3SMAC: an a priori tomographic model of the upper mantle based on geophysical modeling. Physics of the Earth and Planetary Interiors, 1996, 95, 101-122.	1.9	318
29	The three-dimensional seismological model a priori constrained: Confrontation with seismic data. Journal of Geophysical Research, 1996, 101, 8457-8472.	3.3	81
30	Experiments on Joule heating and the dissipation of energy in the Earth's core. Geophysical Journal International, 1996, 127, 339-347.	2.4	10
31	Experimental study of a geostrophic vortex of gallium in a transverse magnetic field. Physics of the Earth and Planetary Interiors, 1995, 91, 77-98.	1.9	25
32	3D convection at infinite Prandtl number in Cartesian geometry — a benchmark comparison. Geophysical and Astrophysical Fluid Dynamics, 1994, 75, 39-59.	1.2	99
33	Seismological detection of a mantle plume?. Nature, 1993, 364, 115-120.	27.8	108
34	Laterally varying reflector at the top ofD″beneath northern Siberia. Geophysical Journal International, 1993, 115, 168-182.	2.4	39
35	Seismic discontinuity at the top of D″: A worldâ€wide feature?. Geophysical Research Letters, 1993, 20, 2371-2374.	4.0	56
36	Further evidence for the â€~Lay discontinuity' beneath northern Siberia and the North Atlantic from short-period P-waves recorded in France. Physics of the Earth and Planetary Interiors, 1992, 72, 264-275.	1.9	41

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37	Mantle convection, plates, and hotspots. Tectonophysics, 1991, 187, 361-371.	2.2	46
38	Nonlinear Dynamical Coupling Observed near the Threshold of Convection in a Two-Layer System. Europhysics Letters, 1991, 14, 655-660.	2.0	23
39	One-and-a-Half Layer Convection? , 1989, , 197-200.		2
40	Anisotropy beneath 9 stations of the GEOSCOPE Broadband Network as deduced from shearâ€wave splitting. Geophysical Research Letters, 1989, 16, 409-412.	4.0	49
41	Vectorial tomographyI. Theory. Geophysical Journal International, 1988, 94, 295-307.	2.4	61
42	What is responsible for thermal coupling in layered convection ?. Journal De Physique, 1988, 49, 1707-1714.	1.8	34
43	A simple method for inverting the azimuthal anisotropy of surface waves. Journal of Geophysical Research, 1986, 91, 511-520.	3.3	311
44	Measurements of mantle wave velocities and inversion for lateral heterogeneities and anisotropy: 3. Inversion. Journal of Geophysical Research, 1986, 91, 7261-7307.	3.3	213
45	Anisotropy and shearâ€velocity heterogeneities in the upper mantle. Geophysical Research Letters, 1984, 11, 109-112.	4.0	195
46	Heat transfer and horizontally averaged temperature of convection with large viscosity variations. Journal of Fluid Mechanics, 1983, 129, 173.	3.4	145
47	A parameterized model for the evolution of isotopic heterogeneities in a convecting system. Earth and Planetary Science Letters, 1982, 60, 178-194.	4.4	57
48	Convection experiments in fluids with highly temperature-dependent viscosity and the thermal evolution of the planets. Physics of the Earth and Planetary Interiors, 1982, 29, 320-329.	1.9	97
49	Reassessment of a reported Sâ€delay under Trindade. Geophysical Research Letters, 1981, 8, 1027-1030.	4.0	3
50	Laboratory convection experiments: Effect of lateral cooling and generation of instabilities in the horizontal boundary layers. Journal of Geophysical Research, 1981, 86, 6143-6154.	3.3	45