

Anne Davaille

List of Publications by Year in descending order

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42
papers

3,669
citations

236925

25
h-index

315739

38
g-index

43
all docs

43
docs citations

43
times ranked

2596
citing authors

#	ARTICLE	IF	CITATIONS
1	Rheological control on the segmentation of the mid-ocean ridges: Laboratory experiments with extension initially perpendicular to the axis. <i>Earth and Planetary Science Letters</i> , 2021, 557, 116706.	4.4	2
2	Lithosphere Destabilization and Small-Scale Convection Constrained From Geophysical Data and Analogical Models. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009462.	2.5	1
3	Interaction between a falling sphere and the structure of a non-Newtonian yield-stress fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2020, 284, 104355.	2.4	7
4	Deflating the LLSVPs: Bundles of Mantle Thermochemical Plumes Rather Than Thick Stagnant "Piles". <i>Tectonics</i> , 2020, 39, e2020TC006265.	2.8	36
5	The Evolution of Mantle Plumes in East Africa. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019929.	3.4	27
6	Fat Plumes May Reflect the Complex Rheology of the Lower Mantle. <i>Geophysical Research Letters</i> , 2018, 45, 1349-1354.	4.0	12
7	Episodic crustal production before 2.7 Ga. <i>Precambrian Research</i> , 2018, 312, 16-22.	2.7	33
8	Accretion mode of oceanic ridges governed by axial mechanical strength. <i>Nature Geoscience</i> , 2018, 11, 274-279.	12.9	11
9	Venus Interior Structure and Dynamics. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	51
10	Zircon age peaks: Production or preservation of continental crust?. , 2017, 13, 227-234.		63
11	Experimental and observational evidence for plume-induced subduction on Venus. <i>Nature Geoscience</i> , 2017, 10, 349-355.	12.9	118
12	Quantifying the evolution of the continental and oceanic crust. <i>Earth-Science Reviews</i> , 2017, 164, 63-83.	9.1	34
13	Characterization of Carbopol® hydrogel rheology for experimental tectonics and geodynamics. <i>Tectonophysics</i> , 2015, 642, 29-45.	2.2	69
14	Laboratory Studies of Mantle Convection. , 2015, , 73-144.		22
15	Upstairs-downstairs: supercontinents and large igneous provinces, are they related?. <i>International Geology Review</i> , 2015, 57, 1341-1348.	2.1	64
16	Thermal instabilities in a yield stress fluid: Existence and morphology. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013, 193, 144-153.	2.4	35
17	Numerical simulation of thermal plumes in a Herschel-Bulkley fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013, 195, 32-45.	2.4	22
18	Episodic Earth evolution. <i>Tectonophysics</i> , 2013, 609, 661-674.	2.2	90

#	ARTICLE	IF	CITATIONS
19	Thermal evolution of an early magma ocean in interaction with the atmosphere. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1155-1176.	3.6	173
20	Small-scale convection in a plume-fed low-viscosity layer beneath a moving plate. <i>Geophysical Journal International</i> , 2013, 194, 591-610.	2.4	22
21	Dynamics of a laminar plume in a cavity: The influence of boundaries on the steady state stem structure. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 158-178.	2.5	18
22	Rheological and mechanical properties of silica colloids: from Newtonian liquid to brittle behaviour. <i>Rheologica Acta</i> , 2012, 51, 451-465.	2.4	65
23	Pacific geoid anomalies revisited in light of thermochemical oscillating domes in the lower mantle. <i>Earth and Planetary Science Letters</i> , 2011, 306, 123-135.	4.4	24
24	At least three scales of convection in a mantle with strongly temperature-dependent viscosity. <i>Physics of the Earth and Planetary Interiors</i> , 2011, 188, 132-141.	1.9	23
25	Extremely thin crust in the Indian Ocean possibly resulting from Plume-Ridge Interaction. <i>Geophysical Journal International</i> , 2011, 184, 29-42.	2.4	53
26	Anatomy of a laminar starting thermal plume at high Prandtl number. <i>Experiments in Fluids</i> , 2011, 50, 285-300.	2.4	37
27	A noninvasive method for measuring the velocity of diffuse hydrothermal flow by tracking moving refractive index anomalies. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	12
28	Starting laminar plumes: Comparison of laboratory and numerical modeling. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	17
29	Mantle plumes: Thin, fat, successful, or failing? Constraints to explain hot spot volcanism through time and space. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	83
30	Laboratory Studies of Mantle Convection. , 2007, , 89-165.		9
31	On the fate of thermally buoyant mantle plumes at density interfaces. <i>Earth and Planetary Science Letters</i> , 2007, 254, 180-193.	4.4	51
32	Laboratory Studies of Mantle Convection. , 2007, , 89-165.		14
33	Convective patterns under the Indo-Atlantic « box ». <i>Earth and Planetary Science Letters</i> , 2005, 239, 233-252.	4.4	138
34	On the transient nature of mantle plumes. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	38
35	Whole layer convection in a heterogeneous planetary mantle. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	59
36	Three distinct types of hotspots in the Earth's mantle. <i>Earth and Planetary Science Letters</i> , 2003, 205, 295-308.	4.4	932

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37	Stability of thermal convection in two superimposed miscible viscous fluids. <i>Journal of Fluid Mechanics</i> , 2002, 471, 339-363.	3.4	52
38	How to anchor hotspots in a convecting mantle?. <i>Earth and Planetary Science Letters</i> , 2002, 203, 621-634.	4.4	140
39	Two-layer thermal convection in miscible viscous fluids. <i>Journal of Fluid Mechanics</i> , 1999, 379, 223-253.	3.4	102
40	Simultaneous generation of hotspots and superswells by convection in a heterogeneous planetary mantle. <i>Nature</i> , 1999, 402, 756-760.	27.8	367
41	Onset of thermal convection in fluids with temperature-dependent viscosity: Application to the oceanic mantle. <i>Journal of Geophysical Research</i> , 1994, 99, 19853-19866.	3.3	207
42	Transient high-Rayleigh-number thermal convection with large viscosity variations. <i>Journal of Fluid Mechanics</i> , 1993, 253, 141.	3.4	336