

Catherine A Meriaux

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

923
citations

471509

17
h-index

454955

30
g-index

34
all docs

34
docs citations

34
times ranked

1009
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational approaches to studying non-linear dynamics of the crust and mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2007, 163, 69-82.	1.9	214
2	Cork oak physiological responses to manipulated water availability in a Mediterranean woodland. <i>Agricultural and Forest Meteorology</i> , 2014, 184, 230-242.	4.8	72
3	Structure and dynamics of sheared mantle plumes. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, n/a-n/a.	2.5	60
4	Benchmarking analogue models of brittle thrust wedges. <i>Journal of Structural Geology</i> , 2016, 92, 116-139.	2.3	58
5	Calculation of dike trajectories from volcanic centers. <i>Journal of Geophysical Research</i> , 2002, 107, ETG 10-1-ETG 10-10.	3.3	46
6	Dyke propagation with distributed damage of the host rock. <i>Earth and Planetary Science Letters</i> , 1999, 165, 177-185.	4.4	45
7	Dike propagation through an elastic plate. <i>Journal of Geophysical Research</i> , 1998, 103, 18295-18314.	3.3	35
8	Quasi-static fall of planar granular columns: comparison of 2D and 3D discrete element modelling with laboratory experiments. <i>Geomechanics and Geoengineering</i> , 2009, 4, 55-77.	1.8	35
9	Effects of Recent Minimum Temperature and Water Deficit Increases on <i>Pinus pinaster</i> Radial Growth and Wood Density in Southern Portugal. <i>Frontiers in Plant Science</i> , 2016, 7, 1170.	3.6	35
10	Simple fluid dynamic models of volcanic rift zones. <i>Earth and Planetary Science Letters</i> , 1995, 136, 223-240.	4.4	30
11	Two dimensional fall of granular columns controlled by slow horizontal withdrawal of a retaining wall. <i>Physics of Fluids</i> , 2006, 18, 093301.	4.0	26
12	High Reynolds number gravity currents along V-shaped valleys. <i>European Journal of Mechanics, B/Fluids</i> , 2009, 28, 651-659.	2.5	25
13	Palaeomagnetic study of a subaerial volcanic ridge (São Jorge Island, Azores) for the past 1.3 Myr: evidence for the Cobb Mountain Subchron, volcano flank instability and tectonomagmatic implications. <i>Geophysical Journal International</i> , 2012, 188, 959-978.	2.4	24
14	Capture of the Canary mantle plume material by the Gibraltar arc mantle wedge during slab rollback. <i>Geophysical Journal International</i> , 2015, 201, 1717-1721.	2.4	24
15	Mantle plumes in the vicinity of subduction zones. <i>Earth and Planetary Science Letters</i> , 2016, 454, 166-177.	4.4	24
16	Particulate gravity currents along V-shaped valleys. <i>Journal of Fluid Mechanics</i> , 2009, 631, 419-440.	3.4	21
17	The propagation of gravity currents in a V-shaped triangular cross-section channel: experiments and theory. <i>Journal of Fluid Mechanics</i> , 2014, 754, 232-249.	3.4	21
18	Scaling the final deposits of dry cohesive granular columns after collapse and quasi-static fall. <i>Physics of Fluids</i> , 2008, 20, .	4.0	17

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19	A two-way interaction between the Hainan plume and the Manila subduction zone. <i>Geophysical Research Letters</i> , 2015, 42, 5796-5802.	4.0	17
20	Effect of thermal diffusion on the stability of strongly tilted mantle plume tails. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	16
21	Sedimentation from binary suspensions in a turbulent gravity current along a V-shaped valley. <i>Journal of Fluid Mechanics</i> , 2012, 712, 624-645.	3.4	12
22	An SPH study of driven turbulence near a free surface in a tank under gravity. <i>European Journal of Mechanics, B/Fluids</i> , 2018, 68, 201-210.	2.5	12
23	The propagation of particulate gravity currents in a V-shaped triangular cross section channel: Lock-release experiments and shallow-water numerical simulations. <i>Physics of Fluids</i> , 2016, 28, 036601.	4.0	10
24	Rate effects in dense granular materials: Linear stability analysis and the fall of granular columns. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2011, 35, 293-308.	3.3	7
25	A study of gravity currents carrying polydisperse particles along a V-shaped valley. <i>European Journal of Mechanics, B/Fluids</i> , 2017, 63, 52-65.	2.5	7
26	On the rise of strongly tilted mantle plume tails. <i>Physics of the Earth and Planetary Interiors</i> , 2011, 184, 63-79.	1.9	6
27	The thermal signature of subducted lithospheric slabs at the core-mantle boundary. <i>Earth and Planetary Science Letters</i> , 1998, 160, 551-562.	4.4	5
28	Benchmark of three-dimensional numerical models of subduction against a laboratory experiment. <i>Physics of the Earth and Planetary Interiors</i> , 2018, 283, 110-121.	1.9	5
29	The impact of vent geometry on the growth of lava domes. <i>Geophysical Journal International</i> , 0, , .	2.4	5
30	What can we learn from large bodies moving in a turbulent fluid?. <i>European Journal of Mechanics, B/Fluids</i> , 2018, 72, 519-530.	2.5	3
31	Mantle plume dynamics at the rear of a retreating slab. <i>Geophysical Journal International</i> , 2020, 222, 1146-1163.	2.4	2
32	Dispersion of finite-size particles probing inhomogeneous and anisotropic turbulence. <i>European Journal of Mechanics, B/Fluids</i> , 2020, 84, 93-109.	2.5	2
33	Particulate gravity currents along V-shaped valleys – ERRATUM. <i>Journal of Fluid Mechanics</i> , 2009, 637, 475-475.	3.4	1
34	Estimating the filtering of turbulence properties by finite-sized particles using analytical energy spectra. <i>Physics of Fluids</i> , 2022, 34, 045117.	4.0	1