

Catherine A Meriaux

List of Publications by Year in descending order

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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	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
2	Mantle plume dynamics at the rear of a retreating slab. <i>Geophysical Journal International</i> , 2020, 222, 1146-1163.	2.4	2
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	Benchmarking analogue models of brittle thrust wedges. <i>Journal of Structural Geology</i> , 2016, 92, 116-139.	2.3	58
11	Mantle plumes in the vicinity of subduction zones. <i>Earth and Planetary Science Letters</i> , 2016, 454, 166-177.	4.4	24
12	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
13	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
14	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
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Rate effects in dense granular materials: Linear stability analysis and the fall of granular columns. International Journal for Numerical and Analytical Methods in Geomechanics, 2011, 35, 293-308.	3.3	7
20	High Reynolds number gravity currents along V-shaped valleys. European Journal of Mechanics, B/Fluids, 2009, 28, 651-659.	2.5	25
21	Quasi-static fall of planar granular columns: comparison of 2D and 3D discrete element modelling with laboratory experiments. Geomechanics and Geoengineering, 2009, 4, 55-77.	1.8	35
22	Particulate gravity currents along V-shaped valleys " ERRATUM. Journal of Fluid Mechanics, 2009, 637, 475-475.	3.4	1
23	Particulate gravity currents along V-shaped valleys. Journal of Fluid Mechanics, 2009, 631, 419-440.	3.4	21
24	Effect of thermal diffusion on the stability of strongly tilted mantle plume tails. Journal of Geophysical Research, 2008, 113, .	3.3	16
25	Scaling the final deposits of dry cohesive granular columns after collapse and quasi-static fall. Physics of Fluids, 2008, 20, .	4.0	17
26	Computational approaches to studying non-linear dynamics of the crust and mantle. Physics of the Earth and Planetary Interiors, 2007, 163, 69-82.	1.9	214
27	Two dimensional fall of granular columns controlled by slow horizontal withdrawal of a retaining wall. Physics of Fluids, 2006, 18, 093301.	4.0	26
28	Structure and dynamics of sheared mantle plumes. Geochemistry, Geophysics, Geosystems, 2004, 5, n/a-n/a.	2.5	60
29	Calculation of dike trajectories from volcanic centers. Journal of Geophysical Research, 2002, 107, ETG 10-1-ETG 10-10.	3.3	46
30	Dyke propagation with distributed damage of the host rock. Earth and Planetary Science Letters, 1999, 165, 177-185.	4.4	45
31	The thermal signature of subducted lithospheric slabs at the core-mantle boundary. Earth and Planetary Science Letters, 1998, 160, 551-562.	4.4	5
32	Dike propagation through an elastic plate. Journal of Geophysical Research, 1998, 103, 18295-18314.	3.3	35
33	Simple fluid dynamic models of volcanic rift zones. Earth and Planetary Science Letters, 1995, 136, 223-240.	4.4	30
34	The impact of vent geometry on the growth of lava domes. Geophysical Journal International, 0, , .	2.4	5