

# Maxwell Rudolph

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

1,314  
citations

331670

21  
h-index

345221

36  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1445  
citing authors

#	ARTICLE	IF	CITATIONS
1	Viscosity jump in Earth's mid-mantle. <i>Science</i> , 2015, 350, 1349-1352.	12.6	178
2	Earthquake triggering of mud volcanoes. <i>Marine and Petroleum Geology</i> , 2009, 26, 1785-1798.	3.3	149
3	Tidal triggering of low frequency earthquakes near Parkfield, California: Implications for fault mechanics within the brittle-ductile transition. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	86
4	Mud volcano response to the 4 April 2010 El Mayor-Cucapah earthquake. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	58
5	Eruptions at Lone Star Geyser, Yellowstone National Park, USA: 1. Energetics and eruption dynamics. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 4048-4062.	3.4	49
6	Core evolution driven by mantle global circulation. <i>Physics of the Earth and Planetary Interiors</i> , 2015, 243, 44-55.	1.9	48
7	Caldera size modulated by the yield stress within a crystal-rich magma reservoir. <i>Nature Geoscience</i> , 2012, 5, 402-405.	12.9	47
8	Visualization of multi-scale dynamics of hydrous cold plumes at subduction zones. <i>Visual Geosciences</i> , 2004, 9, 59-59.	0.5	45
9	Large-scale rigid-body rotation in the mantle wedge and its implications for seismic tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	45
10	Eruptions at Lone Star geyser, Yellowstone National Park, USA: 2. Constraints on subsurface dynamics. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 8688-8707.	3.4	44
11	A prediction of the longevity of the Lusi mud eruption, Indonesia. <i>Earth and Planetary Science Letters</i> , 2011, 308, 124-130.	4.4	42
12	Fracture penetration in planetary ice shells. <i>Icarus</i> , 2009, 199, 536-541.	2.5	41
13	Long- and short-term triggering and modulation of mud volcano eruptions by earthquakes. <i>Tectonophysics</i> , 2016, 672-673, 190-211.	2.2	41
14	Dynamics within geyser conduits, and sensitivity to environmental perturbations: Insights from a periodic geyser in the El Tatio geyser field, Atacama Desert, Chile. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 292, 41-55.	2.1	39
15	History and dynamics of net rotation of the mantle and lithosphere. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 3645-3657.	2.5	38
16	On the temporal evolution of long-wavelength mantle structure of the Earth since the early Paleozoic. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 1599-1615.	2.5	38
17	Primitive Helium Is Sourced From Seismically Slow Regions in the Lowermost Mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 4130-4145.	2.5	34
18	Frequency dependence of mud volcano response to earthquakes. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	33

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19	Evolution and future of the Lusi mud eruption inferred from ground deformation. <i>Geophysical Research Letters</i> , 2013, 40, 1089-1092.	4.0	32
20	Initiation of the Lusi mudflow disaster. <i>Nature Geoscience</i> , 2015, 8, 493-494.	12.9	32
21	Deep and shallow sources for the Lusi mud eruption revealed by surface deformation. <i>Geophysical Research Letters</i> , 2015, 42, 5274-5281.	4.0	24
22	Bubble mobility in mud and magmatic volcanoes. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 294, 11-24.	2.1	24
23	Mechanics of Old Faithful Geyser, Calistoga, California. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	21
24	Quantifying melt production and degassing rate at mid-ocean ridges from global mantle convection models with plate motion history. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 2884-2904.	2.5	19
25	Cascading parallel fractures on Enceladus. <i>Nature Astronomy</i> , 2020, 4, 234-239.	10.1	18
26	An alternative review of facts, coincidences and past and future studies of the Lusi eruption. <i>Marine and Petroleum Geology</i> , 2018, 95, 345-361.	3.3	14
27	Fluid oscillations in a laboratory geyser with a bubble trap. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 368, 100-110.	2.1	12
28	A model for internal oscillations in geysers, with application to Old Faithful (Yellowstone, USA). <i>Journal of Volcanology and Geothermal Research</i> , 2017, 343, 17-24.	2.1	11
29	Does quadrupole stability imply LLSVP fixity?. <i>Nature</i> , 2013, 503, E3-E4.	27.8	10
30	Effects of Heat-Producing Elements on the Stability of Deep Mantle Thermochemical Piles. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008895.	2.5	9
31	Cooling Crusts Create Concomitant Cryovolcanic Cracks. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	8
32	Bayesian Inference of Mantle Viscosity From Whole-Mantle Density Models. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009335.	2.5	7
33	Influence of seismicity on the Lusi mud eruption. <i>Geophysical Research Letters</i> , 2015, 42, 7436-7443.	4.0	6
34	Effects of anisotropic viscosity and texture development on convection in ice mantles. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	3
35	A Retrospective Analysis of b-Value Changes Preceding Strong Earthquakes. <i>Seismological Research Letters</i> , 0, , .	1.9	3
36	Web-cams' potential for collaborative activities in the Earth sciences. <i>Visual Geosciences</i> , 2004, 9, 61-61.	0.5	2

#	ARTICLE	IF	CITATIONS
37	WEB-IS (integrated system): an overall view. <i>Visual Geosciences</i> , 2005, 10, 27-42.	0.5	2
38	Shallow Lower Mantle Viscosity Modulates the Pattern of Mantle Structure. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC008934.	2.5	1