

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

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docs citations

41
times ranked

1445
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Cooling Crusts Create Concomitant Cryovolcanic Cracks. <i>Geophysical Research Letters</i> , 2022, 49, . | 4.0 | 8 |
| 2 | Cascading parallel fractures on Enceladus. <i>Nature Astronomy</i> , 2020, 4, 234-239. | 10.1 | 18 |
| 3 | Bayesian Inference of Mantle Viscosity From Whole-Earth Mantle Density Models. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009335. | 2.5 | 7 |
| 4 | Shallow Lower Mantle Viscosity Modulates the Pattern of Mantle Structure. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC008934. | 2.5 | 1 |
| 5 | Effects of Heat-Producing Elements on the Stability of Deep Mantle Thermochemical Piles. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008895. | 2.5 | 9 |
| 6 | Primitive Helium Is Sourced From Seismically Slow Regions in the Lowermost Mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 4130-4145. | 2.5 | 34 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | Long- and short-term triggering and modulation of mud volcano eruptions by earthquakes. <i>Tectonophysics</i> , 2016, 672-673, 190-211. | 2.2 | 41 |
| 11 | 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 |
| 12 | 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 |
| 13 | Influence of seismicity on the Lusi mud eruption. <i>Geophysical Research Letters</i> , 2015, 42, 7436-7443. | 4.0 | 6 |
| 14 | 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 |
| 15 | Bubble mobility in mud and magmatic volcanoes. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 294, 11-24. | 2.1 | 24 |
| 16 | Core evolution driven by mantle global circulation. <i>Physics of the Earth and Planetary Interiors</i> , 2015, 243, 44-55. | 1.9 | 48 |
| 17 | Viscosity jump in Earth's mid-mantle. <i>Science</i> , 2015, 350, 1349-1352. | 12.6 | 178 |
| 18 | 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 |

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|----|---|------|-----------|
| 19 | Initiation of the Lusi mudflow disaster. <i>Nature Geoscience</i> , 2015, 8, 493-494. | 12.9 | 32 |
| 20 | History and dynamics of net rotation of the mantle and lithosphere. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 3645-3657. | 2.5 | 38 |
| 21 | 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 |
| 22 | Evolution and future of the Lusi mud eruption inferred from ground deformation. <i>Geophysical Research Letters</i> , 2013, 40, 1089-1092. | 4.0 | 32 |
| 23 | Does quadrupole stability imply LLSVP fixity?. <i>Nature</i> , 2013, 503, E3-E4. | 27.8 | 10 |
| 24 | 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 |
| 25 | Caldera size modulated by the yield stress within a crystal-rich magma reservoir. <i>Nature Geoscience</i> , 2012, 5, 402-405. | 12.9 | 47 |
| 26 | Frequency dependence of mud volcano response to earthquakes. <i>Geophysical Research Letters</i> , 2012, 39, . | 4.0 | 33 |
| 27 | Mechanics of Old Faithful Geyser, Calistoga, California. <i>Geophysical Research Letters</i> , 2012, 39, . | 4.0 | 21 |
| 28 | 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 |
| 29 | Effects of anisotropic viscosity and texture development on convection in ice mantles. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 3 |
| 30 | 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 |
| 31 | Mud volcano response to the 4 April 2010 El Mayor-Cucapah earthquake. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 58 |
| 32 | Fracture penetration in planetary ice shells. <i>Icarus</i> , 2009, 199, 536-541. | 2.5 | 41 |
| 33 | Earthquake triggering of mud volcanoes. <i>Marine and Petroleum Geology</i> , 2009, 26, 1785-1798. | 3.3 | 149 |
| 34 | 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 |
| 35 | WEB-IS (integrated system): an overall view. <i>Visual Geosciences</i> , 2005, 10, 27-42. | 0.5 | 2 |
| 36 | Visualization of multi-scale dynamics of hydrous cold plumes at subduction zones. <i>Visual Geosciences</i> , 2004, 9, 59-59. | 0.5 | 45 |

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|----|--|-----|-----------|
| 37 | Web-camâ€™s potential for collaborative activities in the Earth sciences. Visual Geosciences, 2004, 9, 61-61. | 0.5 | 2 |
| 38 | A Retrospective Analysis of b-Value Changes Preceding Strong Earthquakes. Seismological Research Letters, 0, , . | 1.9 | 3 |