

A Mark Jellinek

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,645
citations

361413

20
h-index

289244

40
g-index

44
all docs

44
docs citations

44
times ranked

1826
citing authors

#	ARTICLE	IF	CITATIONS
1	A model for the origin of large silicic magma chambers: precursors of caldera-forming eruptions. <i>Bulletin of Volcanology</i> , 2003, 65, 363-381.	3.0	363
2	LINKS BETWEEN LONG-LIVED HOT SPOTS, MANTLE PLUMES, D ³ , AND PLATE TECTONICS. <i>Reviews of Geophysics</i> , 2004, 42, .	23.0	159
3	Did melting glaciers cause volcanic eruptions in eastern California? Probing the mechanics of dike formation. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	103
4	Mixing and compositional stratification produced by natural convection: 2. Applications to the differentiation of basaltic and silicic magma chambers and komatiite lava flows. <i>Journal of Geophysical Research</i> , 1999, 104, 7203-7218.	3.3	86
5	Seismic tremors and magma wagging during explosive volcanism. <i>Nature</i> , 2011, 470, 522-525.	27.8	82
6	Continents, supercontinents, mantle thermal mixing, and mantle thermal isolation: Theory, numerical simulations, and laboratory experiments. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	70
7	Morphodynamics of a Width-Variable Gravel Bed Stream: New Insights on Pool-Riffle Formation From Physical Experiments. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 2735-2766.	2.8	59
8	A new view of the dynamics, stability and longevity of volcanic clouds. <i>Earth and Planetary Science Letters</i> , 2012, 325-326, 39-51.	4.4	56
9	Connections between the bulk composition, geodynamics and habitability of Earth. <i>Nature Geoscience</i> , 2015, 8, 587-593.	12.9	54
10	A reverse energy cascade for crustal magma transport. <i>Nature Geoscience</i> , 2017, 10, 604-608.	12.9	49
11	Valley formation on early Mars by subglacial and fluvial erosion. <i>Nature Geoscience</i> , 2020, 13, 663-668.	12.9	49
12	Coupled caldera subsidence and stirring inferred from analogue models. <i>Nature Geoscience</i> , 2008, 1, 385-389.	12.9	45
13	Tharsis as a consequence of Mars' dichotomy and layered mantle. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	41
14	Climate-tectonic coupling: Variations in the mean, variations about the mean, and variations in mode. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1831-1864.	3.6	39
15	The Independent Volcanic Eruption Source Parameter Archive (IVESPA, version 1.0): A new observational database to support explosive eruptive column model validation and development. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 417, 107295.	2.1	28
16	Experimental constraints on the deformation and breakup of injected magma. <i>Earth and Planetary Science Letters</i> , 2012, 325-326, 52-62.	4.4	26
17	Transient mantle convection on Venus: The paradoxical coexistence of highlands and coronae in the BAT region. <i>Earth and Planetary Science Letters</i> , 2007, 256, 100-119.	4.4	25
18	A new analytical scaling for turbulent wind-bent plumes: Comparison of scaling laws with analog experiments and a new database of eruptive conditions for predicting the height of volcanic plumes. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 343, 233-251.	2.1	25

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19	Quantitative field constraints on the dynamics of silicic magma chamber rejuvenation and overturn. <i>Contributions To Mineralogy and Petrology</i> , 2013, 165, 1275-1294.	3.1	21
20	Impact of global warming on the rise of volcanic plumes and implications for future volcanic aerosol forcing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 13,326.	3.3	20
21	Turbulent Entrainment Into Volcanic Plumes: New Constraints From Laboratory Experiments on Buoyant Jets Rising in a Stratified Crossflow. <i>Geophysical Research Letters</i> , 2017, 44, 10,198.	4.0	19
22	New insights on entrainment and condensation in volcanic plumes: Constraints from independent observations of explosive eruptions and implications for assessing their impacts. <i>Earth and Planetary Science Letters</i> , 2018, 490, 132-142.	4.4	19
23	Exploring the Atmosphere of Neoproterozoic Earth: The Effect of O ₂ on Haze Formation and Composition. <i>Astrophysical Journal</i> , 2018, 858, 119.	4.5	18
24	Effects of spatially varying roof cooling on thermal convection at high Rayleigh number in a fluid with a strongly temperature-dependent viscosity. <i>Journal of Fluid Mechanics</i> , 2009, 629, 109-137.	3.4	16
25	Subglacial drainage patterns of Devon Island, Canada: detailed comparison of rivers and subglacial meltwater channels. <i>Cryosphere</i> , 2018, 12, 1461-1478.	3.9	16
26	The geometry and complexity of spatial patterns of terrestrial channel networks: Distinctive fingerprints of erosional regimes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 1037-1059.	2.8	15
27	Ice, Fire, or Fizzle: The Climate Footprint of Earth's Supercontinental Cycles. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008464.	2.5	14
28	Linking enclave formation to magma rheology. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	13
29	Volcanic tremors and magma wagging: gas flux interactions and forcing mechanism. <i>Geophysical Journal International</i> , 2013, 195, 1001-1022.	2.4	13
30	Did Martian valley networks substantially modify the landscape?. <i>Earth and Planetary Science Letters</i> , 2020, 547, 116482.	4.4	12
31	Recycling the lid: Effects of subduction and stirring on boundary layer dynamics in bottom-heated planetary mantle convection. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	11
32	Sediment waves and the gravitational stability of volcanic jets. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	3.0	11
33	External Surface Water Influence on Explosive Eruption Dynamics, With Implications for Stratospheric Sulfur Delivery and Volcano-Climate Feedback. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	11
34	Experimental tests of simple models for the dynamics of diffuse oceanic plate boundaries. <i>Geophysical Journal International</i> , 2006, 164, 624-632.	2.4	10
35	What controls the disequilibrium state of gravel-bed rivers?. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 3020-3041.	2.5	10
36	Pangea Migration. <i>Tectonics</i> , 2021, 40, e2020TC006585.	2.8	10

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37	The Influence of Magma Mixing on the Composition of Andesite Magmas and Silicic Eruption Style. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087439.	4.0	8
38	Impacts of Climate Change on Volcanic Stratospheric Injections: Comparison of 1° and 3° Plume Model Projections. <i>Geophysical Research Letters</i> , 2019, 46, 10609-10618.	4.0	7
39	Thermal evolution of Mercury with a volcanic heat-pipe flux: Reconciling early volcanism, tectonism, and magnetism. <i>Science Advances</i> , 2021, 7, eabh2482.	10.3	5
40	Magma wagging and whirling in volcanic conduits. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 351, 57-74.	2.1	4
41	Random Forest Predictions of Fine Ash Concentration and Charging Processes From Experimentally Generated Volcanic Discharges. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	2