Jacob A Richardson

List of Publications by Year
in descending order

22	397	687363 13	839539 18
papers	citations	h-index	g-index

26	26	26	605
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multiscale postseismic behavior on a megathrust: The 2012 Nicoya earthquake, Costa Rica. Geochemistry, Geophysics, Geosystems, 2015, 16, 1848-1864.	2.5	52
2	Benchmarking computational fluid dynamics models of lava flow simulation for hazard assessment, forecasting, and risk management. Journal of Applied Volcanology, 2017, 6, .	2.0	43
3	Lava flow mapping and volume calculations for the 2012â€“2013 Tolbachik, Kamchatka, fissure eruption using bistatic TanDEM-X InSAR. Bulletin of Volcanology, 2015, 77, 1.	3.0	35
4	The volcanic history of Syria Planum, Mars. Journal of Volcanology and Geothermal Research, 2013, 252, 1-13.	2.1	34
5	Recurrence rate and magma effusion rate for the latest volcanism on Arsia Mons, Mars. Earth and Planetary Science Letters, 2017, 458, 170-178.	4.4	29
6	Modeling the October 2005 lahars at Panabaj (Guatemala). Bulletin of Volcanology, 2018, 80, 1.	3.0	23
7	Role of sills in the development of volcanic fields: Insights from lidar mapping surveys of the San Rafael Swell, Utah. Geology, 2015, 43, 1023-1026.	4.4	22
8	Small Volcanic Vents of the Tharsis Volcanic Province, Mars. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006620.	3.6	21
9	High-resolution DEM generation from spaceborne and terrestrial remote sensing data for improved volcano hazard assessment â€" A case study at Nevado del Ruiz, Colombia. Remote Sensing of Environment, 2019, 233, 111348.	11.0	20
10	How to use kernel density estimation as a diagnostic and forecasting tool for distributed volcanic vents. Statistics in Volcanology, 0, 4, 1-25.	0.0	20
11	A new approach to probabilistic lava flow hazard assessments, applied to the Idaho National Laboratory, eastern Snake River Plain, Idaho, USA. Geology, 2018, 46, 895-898.	4.4	18
12	Stratigraphic Evidence for Early Martian Explosive Volcanism in Arabia Terra. Geophysical Research Letters, 2021, 48, e2021GL094109.	4.0	17
13	The Syrtis Major volcano, Mars: A multidisciplinary approach to interpreting its magmatic evolution and structural development. Journal of Geophysical Research E: Planets, 2015, 120, 1476-1496.	3.6	16
14	Resolution of Lava Tubes With Ground Penetrating Radar: The <scp>TubeX</scp> Project. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006138.	3.6	14
15	Subsurface structure of a maarâ€"diatreme and associated tuff ring from a high-resolution geophysical survey, Rattlesnake Crater, Arizona. Journal of Volcanology and Geothermal Research, 2015, 304, 253-264.	2.1	11
16	Deep and rapid thermo-mechanical erosion by a small-volume lava flow. Earth and Planetary Science Letters, 2020, 537, 116163.	4.4	7
17	Volcanic Climate Warming Through Radiative and Dynamical Feedbacks of SO₂ Emissions. Geophysical Research Letters, 2022, 49, .	4.0	5
18	Using dust shed from asteroids as microsamples to link remote measurements with meteorite classes. Meteoritics and Planetary Science, 2019, 54, 2046-2066.	1.6	4

#	Article	IF	Citations
19	Field Mapping and Modeling of Terrestrial Lava Tube Magnetic Anomalies as an Analog for Lunar Lava Tube Exploration and Prospecting. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	3
20	Mapping lava tubes with ground penetrating radar. , 2020, , .		1
21	Modeling of the GPR response to lava tubes on the Earth, Moon, and Mars. , 2020, , .		1
22	Highs and lows: Using GPR to map cinder cones, lava flows, and lava tubes on Earth to support studies of the Moon and Mars. , 2020, , .		1