

H R Dietterich

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

909
citations

759233

12
h-index

752698

20
g-index

23
all docs

23
docs citations

23
times ranked

1076
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2018 rift eruption and summit collapse of K�lauea Volcano. <i>Science</i> , 2019, 363, 367-374.	12.6	353
2	Cyclic lava effusion during the 2018 eruption of K�lauea Volcano. <i>Science</i> , 2019, 366, .	12.6	75
3	Tracking lava flow emplacement on the east rift zone of K�lauea, Hawai�i, with synthetic aperture radar coherence. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	66
4	Volcanological applications of unoccupied aircraft systems (UAS): Developments, strategies, and future challenges. <i>Volcanica</i> , 2020, 3, 67-114.	1.8	63
5	Channel networks within lava flows: Formation, evolution, and implications for flow behavior. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 1704-1724.	2.8	51
6	Volcanic history of the northernmost part of the Harrat Rahat volcanic field, Saudi Arabia. , 2018, 14, 1253-1282.		47
7	Benchmarking computational fluid dynamics models of lava flow simulation for hazard assessment, forecasting, and risk management. <i>Journal of Applied Volcanology</i> , 2017, 6, .	2.0	43
8	Lava effusion rate evolution and erupted volume during the 2018 K�lauea lower East Rift Zone eruption. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	3.0	39
9	Diverting lava flows in the lab. <i>Nature Geoscience</i> , 2015, 8, 494-496.	12.9	36
10	Topographic Changes During the 2018 K�lauea Eruption From Single-Pass Airborne InSAR. <i>Geophysical Research Letters</i> , 2019, 46, 9554-9562.	4.0	33
11	Reconstructing lava flow emplacement histories with rheological and morphological analyses: the Harrat Rahat volcanic field, Kingdom of Saudi Arabia. <i>Bulletin of Volcanology</i> , 2018, 80, 1.	3.0	18
12	Lava flow morphology at an erupting andesitic stratovolcano: A satellite perspective on El Reventador, Ecuador. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 372, 34-47.	2.1	14
13	Sulfur yield of the 1600 eruption of Huaynaputina, Peru: Contributions from magmatic, fluid-phase, and hydrothermal sulfur. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 197, 303-312.	2.1	12
14	High-speed lava flow infrasound from K�lauea�s fissure 8 and its utility in monitoring effusion rate. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	3.0	11
15	Timescales of magmatic differentiation from alkali basalt to trachyte within the Harrat Rahat volcanic field, Kingdom of Saudi Arabia. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	3.1	9
16	Evaluating lava flow propagation models with a case study from the 2018 eruption of K�lauea Volcano, Hawai�i. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	3.0	9
17	The timing and compositional evolution of volcanism within northern Harrat Rahat, Kingdom of Saudi Arabia. <i>Bulletin of the Geological Society of America</i> , 2020, 132, 1381-1403.	3.3	8
18	Evolution in eruptive style of the 2018 eruption of Veniaminof volcano, Alaska, reflected in groundmass textures and remote sensing. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	3.0	5

#	ARTICLE	IF	CITATIONS
19	A look ahead to the next decade at US volcano observatories. Bulletin of Volcanology, 2022, 84, .	3.0	3
20	Structured elicitation of expert judgement in real-time eruption scenarios: an exercise for Piton de la Fournaise volcano, La Réunion island. Volcanica, 2022, 5, 105-131.	1.8	2
21	VESICULARITY, CRYSTALLINITY, AND IMPLICATIONS FOR RHEOLOGY OF THE KĀLAUEA 2018 LAVA FLOWS. , 2020, , .		1