

Stefanie Hautmann

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

359
citations

1040056

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h-index

1058476

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all docs

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docs citations

14
times ranked

477
citing authors

#	ARTICLE	IF	CITATIONS
1	Oscillations in hydrothermal systems as a source of periodic unrest at caldera volcanoes: Multiparameter insights from Nisyros, Greece. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	71
2	Modelling ground deformation caused by oscillating overpressure in a dyke conduit at Soufrière Hills Volcano, Montserrat. <i>Tectonophysics</i> , 2009, 471, 87-95.	2.2	67
3	Effect of mechanical heterogeneity in arc crust on volcano deformation with application to Soufrière Hills Volcano, Montserrat, West Indies. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	46
4	Vertically Extensive Magma Reservoir Revealed From Joint Inversion and Quantitative Interpretation of Seismic and Gravity Data. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 11170-11191.	3.4	38
5	Strain field analysis on Montserrat (W.I.) as tool for assessing permeable flow paths in the magmatic system of Soufrière Hills Volcano. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 676-690.	2.5	30
6	Chapter 11 Volcano geodesy at the Soufrière Hills Volcano, Montserrat: a review. <i>Geological Society Memoir</i> , 2014, 39, 195-217.	1.7	26
7	Mass variations in response to magmatic stress changes at Soufrière Hills Volcano, Montserrat (W.I.): Insights from 4-D gravity data. <i>Earth and Planetary Science Letters</i> , 2010, 290, 83-89.	4.4	22
8	Pressure changes in the magmatic system during the December 2008/January 2009 extrusion event at Soufrière Hills Volcano, Montserrat (W.I.), derived from strain data analysis. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 250, 34-41.	2.1	19
9	The shallow structure beneath Montserrat (West Indies) from new Bouguer gravity data. <i>Geophysical Research Letters</i> , 2013, 40, 5113-5118.	4.0	18
10	Multi-geophysical parameter classification of the Montserrat geothermal system. <i>Geothermics</i> , 2021, 90, 102006.	3.4	6
11	Chapter 14 Continuous and campaign-style gravimetric investigations on Montserrat 2006 to 2009. <i>Geological Society Memoir</i> , 2014, 39, 241-251.	1.7	5
12	Resonance oscillations of the Soufrière Hills Volcano (Montserrat, W.I.) magmatic system induced by forced magma flow from the reservoir into the upper plumbing dike. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 350, 7-17.	2.1	5
13	Magma buoyancy and volatile ascent driving autocyclic eruptivity at <sc>H</sc>ekla <sc>V</sc>olcano (<sc>I</sc>celand). <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 3517-3529.	2.5	5
14	Ground Deformation and Gravity Changes of the Kos-Nisyros Volcanic System Between 1995 and 2008. <i>Active Volcanoes of the World</i> , 2018, , 303-319.	1.4	1