Susanna Ebmeier

List of Publications by Year
in descending order

37 papers	1,437 citations	361413 20 h-index	377865 34 g-index
40 all docs	40 docs citations	40 times ranked	1214 citing authors

#	Article	IF	Citations
1	Insights Into Magma Storage Beneath a Frequently Erupting Arc Volcano (Villarrica, Chile) From Unsupervised Machine Learning Analysis of Mineral Compositions. Geochemistry, Geophysics, Geosystems, 2022, 23, .	2.5	11
2	ALADDIn: Autoencoder-LSTM-Based Anomaly Detector of Deformation in InSAR. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	5
3	Enhancing disaster risk resilience using greenspace in urbanising Quito, Ecuador. Natural Hazards and Earth System Sciences, 2022, 22, 1699-1721.	3.6	3
4	Submarine landslide megablocks show half of Anak Krakatau island failed on December 22nd, 2018. Nature Communications, 2021, 12, 2827.	12.8	21
5	Analyzing Explosive Volcanic Deposits From Satelliteâ€Based Radar Backscatter, VolcÃ¡n de Fuego, 2018. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022250.	3.4	13
6	Using Conceptual Models to Relate Multiparameter Satellite Data to Subsurface Volcanic Processes in Latin America. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008494.	2.5	14
7	The Prevalence and Significance of Offset Magma Reservoirs at Arc Volcanoes. Geophysical Research Letters, 2020, 47, e2020GL087856.	4.0	21
8	Explosive Eruptions With Little Warning: Experimental Petrology and Volcano Monitoring Observations From the 2014 Eruption of Kelud, Indonesia. Geochemistry, Geophysics, Geosystems, 2019, 20, 4218-4247.	2.5	24
9	Old magma and a new, intrusive trigger: using diffusion chronometry to understand the rapid-onset Calbuco eruption, April 2015 (Southern Chile). Contributions To Mineralogy and Petrology, 2019, 174, 1.	3.1	16
10	Presentation and analysis of a worldwide database for lava dome collapse events: the Global Archive of Dome Instabilities (GLADIS). Bulletin of Volcanology, 2019, 81, 1.	3.0	22
11	Satellite geodesy for volcano monitoring in the Sentinel-1 and SAR constellation era. , 2019, , .		1
12	Thermal, Deformation, and Degassing Remote Sensing Time Series (CE 2000â€“2017) at the 47 most Active Volcanoes in Latin America: Implications for Volcanic Systems. Journal of Geophysical Research: Solid Earth, 2019, 124, 195-218.	3.4	67
13	Structures controlling volcanic activity within Masaya caldera, Nicaragua. Volcanica, 2019, 2, 25-44.	1.8	4
14	Synthesis of global satellite observations of magmatic and volcanic deformation: implications for volcano monitoring & the lateral extent of magmatic domains. Journal of Applied Volcanology, 2018, 7, .	2.0	97
15	Temporal evolution of the magmatic system at Tungurahua Volcano, Ecuador, detected by geodetic observations. Journal of Volcanology and Geothermal Research, 2018, 368, 63-72.	2.1	7
16	Synthesizing multi-sensor, multi-satellite, multi-decadal datasets for global volcano monitoring. Journal of Volcanology and Geothermal Research, 2018, 365, 38-56.	2.1	48
17	Towards coordinated regional multi-satellite InSAR volcano observations: results from the Latin America pilot project. Journal of Applied Volcanology, 2018, 7, .	2.0	53
18	Magma Plumbing Systems: A Geophysical Perspective. Journal of Petrology, 2018, 59, 1217-1251.	2.8	134

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19	Magmatic Landscape Construction. Journal of Geophysical Research F: Earth Surface, 2018, 123, 1710-1730.	2.8	13
20	Recent unrest (2002â€“2015) imaged by space geodesy at the highest risk Chilean volcanoes: Villarrica, Llaima, and Calbuco (Southern Andes). Journal of Volcanology and Geothermal Research, 2017, 344, 270-288.	2.1	62
21	Transient deformation associated with explosive eruption measured at Masaya volcano (Nicaragua) using Interferometric Synthetic ApertureÂRadar. Journal of Volcanology and Geothermal Research, 2017, 344, 212-223.	2.1	12
22	Decaying Lava Extrusion Rate at El Reventador Volcano, Ecuador, Measured Using Highâ€Resolution Satellite Radar. Journal of Geophysical Research: Solid Earth, 2017, 122, 9966-9988.	3.4	41
23	Application of independent component analysis to multitemporal InSAR data with volcanic case studies. Journal of Geophysical Research: Solid Earth, 2016, 121, 8970-8986.	3.4	51
24	Mapping and measuring lava volumes from 2002 to 2009 at El Reventador Volcano, Ecuador, from field measurements and satellite remote sensing. Journal of Applied Volcanology, 2016, 5, .	2.0	15
25	Dome growth, collapse, and valley fill at SoufriÃ¨re Hills Volcano, Montserrat, from 1995 to 2013: Contributions from satellite radar measurements of topographic change. , 2016, 12, 1300-1315.		21
26	Shallow earthquake inhibits unrest near Chilesâ€“Cerro Negro volcanoes, Ecuadorâ€“Colombian border. Earth and Planetary Science Letters, 2016, 450, 283-291.	4.4	38
27	Integrated velocity field from ground and satellite geodetic techniques: application to Arenal volcano. Geophysical Journal International, 2015, 200, 863-879.	2.4	19
28	Systematic assessment of atmospheric uncertainties for InSAR data at volcanic arcs using large-scale atmospheric models: Application to the Cascade volcanoes, United States. Remote Sensing of Environment, 2015, 170, 102-114.	11.0	72
29	Thin-skinned mass-wasting responsible for widespread deformation at Arenal volcano. Frontiers in Earth Science, 2014, 2, .	1.8	27
30	Global link between deformation and volcanic eruption quantified by satellite imagery. Nature Communications, 2014, 5, 3471.	12.8	176
31	The influence of cooling, crystallisation and re-melting on the interpretation of geodetic signals in volcanic systems. Earth and Planetary Science Letters, 2014, 388, 166-174.	4.4	60
32	Systematic satellite observations of the impact of aerosols from passive volcanic degassing on local cloud properties. Atmospheric Chemistry and Physics, 2014, 14, 10601-10618.	4.9	26
33	Applicability of InSAR to tropical volcanoes: insights from Central America. Geological Society Special Publication, 2013, 380, 15-37.	1.3	66
34	On the lack of InSAR observations of magmatic deformation at Central American volcanoes. Journal of Geophysical Research: Solid Earth, 2013, 118, 2571-2585.	3.4	62
35	Measuring large topographic change with InSAR: Lava thicknesses, extrusion rate and subsidence rate at Santiaguito volcano, Guatemala. Earth and Planetary Science Letters, 2012, 335-336, 216-225.	4.4	82
36	Steady downslope movement on the western flank of Arenal volcano, Costa Rica. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	30

#	Article	IF	Citations
37	TOWARDS INSAR EVERYWHERE, ALL THE TIME, WITH SENTINEL-1. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B4, 763-766.	0.2	3