Sara Barsotti

List of Publications by Year in descending order

35 papers	1,934 citations	489802 18 h-index	445137 33 g-index
37 all docs	37 docs citations	37 times ranked	2338 citing authors

#	Article	IF	Citations
1	Guidelines for volcano-observatory operations during crises: recommendations from the 2019 volcano observatory best practices meeting. Journal of Applied Volcanology, 2022, 11, .	0.7	26
2	Long-term hazard assessment of explosive eruptions at Jan Mayen (Norway) and implications for air traffic in the North Atlantic. Natural Hazards and Earth System Sciences, 2022, 22, 139-163.	1.5	9
3	Assessing the effectiveness of low-cost air quality monitors for identifying volcanic SO2 and PM downwind from Masaya volcano, Nicaragua. Volcanica, 2022, 5, 13-39.	0.6	0
4	Assessing the effectiveness of low-cost air quality monitors for identifying volcanic SO2 and PM downwind from Masaya volcano, Nicaragua. Volcanica, 2022, 5, 33-59.	0.6	1
5	Increased respiratory morbidity associated with exposure to a mature volcanic plume from a large Icelandic fissure eruption. Nature Communications, 2021, 12, 2161.	5.8	16
6	Thermal Remote Sensing for Global Volcano Monitoring: Experiences From the MIROVA System. Frontiers in Earth Science, 2020, 7, .	0.8	52
7	Operational response and hazards assessment during the 2014â€“2015 volcanic crisis at BÃ¡rÃ°arbunga volcano and associated eruption at Holuhraun, Iceland. Journal of Volcanology and Geothermal Research, 2020, 390, 106753.	0.8	19
8	Probabilistic hazard maps for operational use: the case of SO2 air pollution during the Holuhraun eruption (BÃ¡rÃ°arbunga, Iceland) in 2014â€“2015. Bulletin of Volcanology, 2020, 82, 1.	1.1	8
9	Correction to: Practising an explosive eruption in Iceland: outcomes from a European exercise. Journal of Applied Volcanology, 2020, 9, .	0.7	0
10	Practising an explosive eruption in Iceland: outcomes from a European exercise. Journal of Applied Volcanology, 2020, 9, .	0.7	9
11	Monitoring the time-averaged discharge rates, volumes and emplacement style of large lava flows by using MIROVA system: the case of the 2014-2015 eruption at Holuhraun (Iceland). Annals of Geophysics, 2019, 61, .	0.5	13
12	Assessing Impact to Infrastructures Due to Tephra Fallout From Ã–rÃ¦fajÃ¶kull Volcano (Iceland) by Using a Scenario-Based Approach and a Numerical Model. Frontiers in Earth Science, 2018, 6, .	0.8	12
13	Integration of SAR Data Into Monitoring of the 2014â€“2015 Holuhraun Eruption, Iceland: Contribution of the Icelandic Volcanoes Supersite and the FutureVolc Projects. Frontiers in Earth Science, 2018, 6, .	0.8	21
14	Ground-Based Measurements of the 2014â€“2015 Holuhraun Volcanic Cloud (Iceland). Geosciences (Switzerland), 2018, 8, 29.	1.0	35
15	REFIR- A multi-parameter system for near real-time estimates of plume-height and mass eruption rate during explosive eruptions. Journal of Volcanology and Geothermal Research, 2018, 360, 61-83.	0.8	15
16	Modeling lava flow propagation over a flat landscape by using MrLavaLoba: the case of the 2014â€“2015 eruption at Holuhraun, Iceland. Annals of Geophysics, 2018, 61, .	0.5	11
17	Understanding the environmental impacts of large fissure eruptions: Aerosol and gas emissions from the 2014â€“2015 Holuhraun eruption (Iceland). Earth and Planetary Science Letters, 2017, 472, 309-322.	1.8	59
18	Extended SO2 outgassing from the 2014â€“2015 Holuhraun lava flow field, Iceland. Bulletin of Volcanology, 2017, 79, 1.	1.1	6

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19	Major impact of volcanic gases on the chemical composition of precipitation in Iceland during the 2014â€“2015 Holuhraun eruption. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1971-1982.	1.2	24
20	Uncertainty quantification and sensitivity analysis of volcanic columns models: Results from the integral model PLUME-MoM. Journal of Volcanology and Geothermal Research, 2016, 326, 77-91.	0.8	15
21	Gradual caldera collapse at BÃ¡rdarbunga volcano, Iceland, regulated by lateral magma outflow. Science, 2016, 353, aaf8988.	6.0	230
22	Reconstructing eruptive source parameters from tephra deposit: a numerical study of medium-sized explosive eruptions at Etna volcano. Bulletin of Volcanology, 2016, 78, 1.	1.1	22
23	Results of the eruptive column model inter-comparison study. Journal of Volcanology and Geothermal Research, 2016, 326, 2-25.	0.8	114
24	Satellite detection, longâ€range transport, and air quality impacts of volcanic sulfur dioxide from the 2014â€“2015 flood lava eruption at BÃ¡rÃ°arbunga (Iceland). Journal of Geophysical Research D: Atmospheres, 2015, 120, 9739-9757.	1.2	98
25	Rapid emergency assessment of ash and gas hazard for future eruptions at Santorini Volcano, Greece. Journal of Applied Volcanology, 2015, 4, .	0.7	24
26	PLUME-MoM 1.0: A new integral model of volcanic plumes based on the method of moments. Geoscientific Model Development, 2015, 8, 2447-2463.	1.3	38
27	Dynamics and tephra dispersal of Violent Strombolian eruptions at Vesuvius: insights from field data, wind reconstruction and numerical simulation of the 1906 event. Bulletin of Volcanology, 2015, 77, 1.	1.1	18
28	Next article >> << Previous article Environmental pressure from the 2014â€“15 eruption of BÃ¡rÃ°arbunga volcano, Iceland. Geochemical Perspectives Letters, 2015, , 84-93.	1.0	90
29	Investigation of the complex dynamics and structure of the 2010 EyjafjallajÃ¶kull volcanic ash cloud using multispectral images and numerical simulations. Journal of Geophysical Research D: Atmospheres, 2013, 118, 4729-4747.	1.2	18
30	Quantitative assessment of volcanic ash hazards for health and infrastructure at Mt. Etna (Italy) by numerical simulation. Journal of Volcanology and Geothermal Research, 2010, 192, 85-96.	0.8	84
31	A multidisciplinary effort to assign realistic source parameters to models of volcanic ash-cloud transport and dispersion during eruptions. Journal of Volcanology and Geothermal Research, 2009, 186, 10-21.	0.8	561
32	Developing an Event Tree for probabilistic hazard and risk assessment at Vesuvius. Journal of Volcanology and Geothermal Research, 2008, 178, 397-415.	0.8	179
33	The VOLâ€CALPUFF model for atmospheric ash dispersal: 1. Approach and physical formulation. Journal of Geophysical Research, 2008, 113, .	3.3	74
34	The VOLâ€CALPUFF model for atmospheric ash dispersal: 2. Application to the weak Mount Etna plume of July 2001. Journal of Geophysical Research, 2008, 113, .	3.3	27
35	MAFALDA: An early warning modeling tool to forecast volcanic ash dispersal and deposition. Geochemistry, Geophysics, Geosystems, 2008, 9, .	1.0	2