Laura Sandri

List of Publications by Year
in descending order

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Version: 2024-02-01

62	2,315	218592	223716
papers	citations	26 h-index	46 g-index

74	74	74	1600
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantifying probabilities of volcanic events: The example of volcanic hazard at Mount Vesuvius. Journal of Geophysical Research, 2004, 109, .	3.3	219
2	BET_EF: a probabilistic tool for long- and short-term eruption forecasting. Bulletin of Volcanology, 2008, 70, 623-632.	1.1	197
3	Relation between subduction megathrust earthquakes, trench sediment thickness and upper plate strain. Geophysical Research Letters, 2012, 39, .	1.5	135
4	Towards real-time eruption forecasting in the Auckland Volcanic Field: application of BET_EF during the New Zealand National Disaster Exercise â€˜Ruaumokoâ€™. Bulletin of Volcanology, 2010, 72, 185-204.	1.1	111
5	BET_VH: a probabilistic tool for long-term volcanic hazard assessment. Bulletin of Volcanology, 2010, 72, 705-716.	1.1	110
6	Probability hazard map for future vent opening at the Campi Flegrei caldera, Italy. Bulletin of Volcanology, 2012, 74, 497-510.	1.1	102
7	Combining long- and short-term probabilistic volcanic hazard assessment with cost-benefit analysis to support decision making in a volcanic crisis from the Auckland Volcanic Field, New Zealand. Bulletin of Volcanology, 2012, 74, 705-723.	1.1	95
8	Past, present and future of volcanic lake monitoring. Journal of Volcanology and Geothermal Research, 2014, 272, 78-97.	0.8	82
9	Long-term multi-hazard assessment for El Misti volcano (Peru). Bulletin of Volcanology, 2014, 76, 1.	1.1	76
10	BET_VH: exploring the influence of natural uncertainties on long-term hazard from tephra fallout at Campi Flegrei (Italy). Bulletin of Volcanology, 2010, 72, 717-733.	1.1	68
11	Machine Learning Can Predict the Timing and Size of Analog Earthquakes. Geophysical Research Letters, 2019, 46, 1303-1311.	1.5	65
12	Recognizing and tracking volcanic hazards related to non-magmatic unrest: a review. Journal of Applied Volcanology, 2014, 3, .	0.7	59
13	A review and new insights on the estimation of the b-valueand its uncertainty. Annals of Geophysics, 2009, 46, .	0.5	55
14	A Bayesian procedure for Probabilistic Tsunami Hazard Assessment. Natural Hazards, 2010, 53, 159-174.	1.6	54
15	Operational eruption forecasting at high-risk volcanoes: the case of Campi Flegrei, Naples. Journal of Applied Volcanology, 2012, 1, .	0.7	49
16	A new perspective in identifying the precursory patterns of eruptions. Bulletin of Volcanology, 2004, 66, 263-275.	1.1	47
17	Beyond eruptive scenarios: assessing tephra fallout hazard from Neapolitan volcanoes. Scientific Reports, 2016, 6, 24271.	1.6	47
18	Probabilistic shortâ€term volcanic hazard in phases of unrest: A case study for tephra fallout. Journal of Geophysical Research: Solid Earth, 2014, 119, 8805-8826.	1.4	42

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19	Suitability of energy cone for probabilistic volcanic hazard assessment: validation tests at Somma-Vesuvius and Campi Flegrei (Italy). Bulletin of Volcanology, 2016, 78, 1.	1.1	41
20	Probabilistic Hazard From Pyroclastic Density Currents in the Neapolitan Area (Southern Italy). Journal of Geophysical Research: Solid Earth, 2018, 123, 3474-3500.	1.4	39
21	Bayesian event tree for eruption forecasting (BET_EF) at Vesuvius, Italy: a retrospective forward application to the 1631 eruption. Bulletin of Volcanology, 2009, 71, 729-745.	1.1	34
22	Some insights on the occurrence of recent volcanic eruptions of Mount Etna volcano (Sicily, Italy). Geophysical Journal International, 2005, 163, 1203-1218.	1.0	33
23	Probabilistic tsunami hazard assessment for Messina Strait Area (Sicily, Italy). Natural Hazards, 2012, 64, 329-358.	1.6	32
24	PyBetVH: A Python tool for probabilistic volcanic hazard assessment and for generation of Bayesian hazard curves and maps. Computers and Geosciences, 2015, 79, 38-46.	2.0	31
25	A Framework for Probabilistic Multi-Hazard Assessment of Rain-Triggered Lahars Using Bayesian Belief Networks. Frontiers in Earth Science, 2017, 5, .	0.8	30
26	Towards Quantitative Volcanic Risk of Pyroclastic Density Currents: Probabilistic Hazard Curves and Maps Around Sommaâ€Vesuvius (Italy). Journal of Geophysical Research: Solid Earth, 2018, 123, 6299-6317.	1.4	29
27	Probabilistic Seismic Hazard Assessment: Combining Cornell-Like Approaches and Data at Sites through Bayesian Inference. Bulletin of the Seismological Society of America, 2013, 103, 1709-1722.	1.1	27
28	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
29	A new Bayesian Event Tree tool to track and quantify volcanic unrest and its application to Kawah Ijen volcano. Geochemistry, Geophysics, Geosystems, 2016, 17, 2539-2555.	1.0	25
30	Weak Tectono-Magmatic Relationships along an Obliquely Convergent Plate Boundary: Sumatra, Indonesia. Frontiers in Earth Science, 2018, 6, .	0.8	23
31	Predicting Imminence of Analog Megathrust Earthquakes With Machine Learning: Implications for Monitoring Subduction Zones. Geophysical Research Letters, 2020, 47, e2019GL086615.	1.5	22
32	Searching for patterns in caldera unrest. Geochemistry, Geophysics, Geosystems, 2017, 18, 2748-2768.	1.0	21
33	Exploring the influence of vent location and eruption style on tephra fall hazard from the Okataina Volcanic Centre, New Zealand. Bulletin of Volcanology, 2015, 77, 1.	1.1	20
34	Multivariate statistical analysis to investigate the subduction zone parameters favoring the occurrence of giant megathrust earthquakes. Tectonophysics, 2018, 728-729, 92-103.	0.9	20
35	Rapid response to the earthquake emergency of May 2012 in the Po Plain, northern Italy. Annals of Geophysics, 2012, 55, .	0.5	18
36	Testing forecasts of a new Bayesian time-predictable model of eruption occurrence. Journal of Volcanology and Geothermal Research, 2010, 198, 57-75.	0.8	17

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37	Phreatic eruptions at crater lakes: occurrence statistics and probabilistic hazard forecast. Journal of Applied Volcanology, 2017, 6, .	0.7	16
38	A Methodology for a Comprehensive Probabilistic Tsunami Hazard Assessment: Multiple Sources and Short-Term Interactions. Journal of Marine Science and Engineering, 2015, 3, 23-51.	1.2	15
39	Quantifying risk to agriculture from volcanic ashfall: a case study from the Bay of Plenty, New Zealand. Natural Hazards, 2017, 86, 31-56.	1.6	14
40	Where giant earthquakes may come. Journal of Geophysical Research: Solid Earth, 2016, 121, 7322-7336.	1.4	12
41	Application of the probabilistic model <scp>BET_UNREST</scp> during a volcanic unrest simulation exercise in <scp>D</scp>ominica, <scp>L</scp>esser <scp>A</scp>ntilles. Geochemistry, Geophysics, Geosystems, 2016, 17, 4438-4456.	1.0	12
42	Brief Communication: The effect of submerged vents on probabilistic hazard assessment for tephra fallout. Natural Hazards and Earth System Sciences, 2015, 15, 409-415.	1.5	10
43	Multisource Bayesian Probabilistic Tsunami Hazard Analysis for the Gulf of Naples (Italy). Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015373.	1.0	10
44	A quantitative model for volcanic hazard assessment. , 0, , 31-37.		10
45	The major event of the 1997 Umbria-Marche (Italy) sequence: what could we learn from DInSAR and GPS data?. Geophysical Journal International, 2003, 153, 242-252.	1.0	9
46	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
47	39ÂYears of Geochemical Monitoring of Laguna Caliente Crater Lake, PoÃ¡s: Patterns from the Past as Keys for the Future. Active Volcanoes of the World, 2019, , 213-233.	1.0	8
48	Testing the performance of some nonparametric pattern recognition algorithms in realistic cases. Pattern Recognition, 2004, 37, 447-461.	5.1	7
49	Deterministic Versus Probabilistic Volcano Monitoring: Not â€œorâ€•But â€œandâ€• Advances in Volcanology, 2017, , 35-46.	0.7	7
50	Operational Short-term Volcanic Hazard Analysis. , 2015, , 233-259.		6
51	The Need to Quantify Hazard Related to Non-magmatic Unrest: From BET_EF to BET_UNREST. Advances in Volcanology, 2017, , 63-82.	0.7	6
52	Testing gas dispersion modelling: A case study at La SoufriÃ¨re volcano (Guadeloupe, Lesser Antilles). Journal of Volcanology and Geothermal Research, 2021, 417, 107312.	0.8	6
53	A technical note on the bias in the estimation of the b-value and its uncertainty through the Least Squares technique. Annals of Geophysics, 2009, 50, .	0.5	6
54	Tephra fall hazard for the Neapolitan area. , 2015, , 239-248.		5

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55	Bayesian Inference on Earthquake Size Distribution: A Case Study in Italy. Bulletin of the Seismological Society of America, 2010, 100, 349-363.	1.1	4
56	Bayesian Hierarchical Time Predictable Model for eruption occurrence: an application to Kilauea Volcano. Geophysical Journal International, 2010, , .	1.0	3
57	A Bayesian seismic hazard analysis for the city of Naples. Journal of Geophysical Research: Solid Earth, 2017, 122, 1990-2012.	1.4	3
58	Stochastic Modeling of Explosive Eruptive Events at Galeras Volcano, Colombia. Frontiers in Earth Science, 2021, 8, .	0.8	3
59	Application of BET_EF at Mount Etna: a retrospective analysis (years 2001-2005). Annals of Geophysics, 2011, 54, .	0.5	3
60	Reducing the volcanic risk in the frame of the hazard/risk separation principle. , 2021, , 545-564.		2
61	Editorial: Field Data, Models and Uncertainty in Hazard Assessment of Pyroclastic Density Currents and Lahars: Global Perspectives. Frontiers in Earth Science, 2021, 9, .	0.8	1
62	Assessing hazard and potential impact associated with volcanic ballistic projectiles: The example of La SoufriÃ¨re de Guadeloupe volcano (Lesser Antilles). Journal of Volcanology and Geothermal Research, 2022, 423, 107453.	0.8	1