

# Benjamin Bernard

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

740  
citations

516710

16  
h-index

552781

26  
g-index

46  
all docs

46  
docs citations

46  
times ranked

688  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Chimborazo sector collapse and debris avalanche: Deposit characteristics as evidence of emplacement mechanisms. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 176, 36-43.	2.1	57
2	Juvenile magma recognition and eruptive dynamics inferred from the analysis of ash time series: The 2015 reawakening of Cotopaxi volcano. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 328, 134-146.	2.1	51
3	Distinguishing volcanic debris avalanche deposits from their reworked products: the Perrier sequence (French Massif Central). <i>Bulletin of Volcanology</i> , 2009, 71, 1041-1056.	3.0	45
4	SO <sub>2</sub> degassing at Tungurahua volcano (Ecuador) between 2007 and 2013: Transition from continuous to episodic activity. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 298, 1-14.	2.1	41
5	Sequential plug formation, disintegration by Vulcanian explosions, and the generation of granular Pyroclastic Density Currents at Tungurahua volcano (2013-2014), Ecuador. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 306, 90-103.	2.1	39
6	Eruptive history of Chimborazo volcano (Ecuador): A large, ice-capped and hazardous compound volcano in the Northern Andes. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 221-222, 33-51.	2.1	38
7	Relationship between volcanic ash fallouts and seismic tremor: quantitative assessment of the 2015 eruptive period at Cotopaxi volcano, Ecuador. <i>Bulletin of Volcanology</i> , 2016, 78, 1.	3.0	38
8	Evolution of the 2015 Cotopaxi Eruption Revealed by Combined Geochemical and Seismic Observations. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 2087-2108.	2.5	33
9	The different characteristics of the recent eruptions of Fernandina and Sierra Negra volcanoes (Galápagos, Ecuador). <i>Volcanica</i> , 2018, 1, 127-133.	1.8	33
10	Homemade ashmeter: a low-cost, high-efficiency solution to improve tephra field-data collection for contemporary explosive eruptions. <i>Journal of Applied Volcanology</i> , 2013, 2, .	2.0	31
11	Integrated Petrological and Geophysical Constraints on Magma System Architecture in the Western Galápagos Archipelago: Insights From Wolf Volcano. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 4722-4743.	2.5	31
12	Caldera resurgence during the 2018 eruption of Sierra Negra volcano, Galápagos Islands. <i>Nature Communications</i> , 2021, 12, 1397.	12.8	30
13	Guidelines for volcano-observatory operations during crises: recommendations from the 2019 volcano observatory best practices meeting. <i>Journal of Applied Volcanology</i> , 2022, 11, .	2.0	26
14	Eruption Source Parameters for forecasting ash dispersion and deposition from vulcanian eruptions at Tungurahua volcano: Insights from field data from the July 2013 eruption. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 309, 1-13.	2.1	25
15	Cryptic evolved melts beneath monotonous basaltic shield volcanoes in the Galápagos Archipelago. <i>Nature Communications</i> , 2020, 11, 3767.	12.8	20
16	Chronology and phenomenology of the 1982 and 2015 Wolf volcano eruptions, Galápagos Archipelago. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 374, 26-38.	2.1	18
17	Autopsy of an eruptive phase of Tungurahua volcano (Ecuador) through coupling of seismo-acoustic and SO <sub>2</sub> recordings with ash characteristics. <i>Earth and Planetary Science Letters</i> , 2019, 511, 223-232.	4.4	18
18	Triggering of the powerful 14 July 2013 Vulcanian explosion at Tungurahua Volcano, Ecuador. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 392, 106762.	2.1	17

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19	Pyroclastic dune bedforms: macroscale structures and lateral variations. Examples from the 2006 pyroclastic currents at Tungurahua (Ecuador). <i>Sedimentology</i> , 2019, 66, 1531-1559.	3.1	16
20	Distribution and Geometric Parameters of Volcanic Debris Avalanche Deposits. <i>Advances in Volcanology</i> , 2021, , 75-90.	1.1	16
21	Quantifying the Uncertainty of a Coupled Plume and Tephra Dispersal Model: PLUME&MOM/HYSPLIT Simulations Applied to Andean Volcanoes. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018390.	3.4	15
22	The 3640&3510 BC rhyodacite eruption of Chachimbiro compound volcano, Ecuador: a violent directed blast produced by a satellite dome. <i>Bulletin of Volcanology</i> , 2014, 76, 1.	3.0	12
23	Revisiting the statistical analysis of pyroclast density and porosity data. <i>Solid Earth</i> , 2015, 6, 869-879.	2.8	11
24	Terminology and Strategy to Describe Large Volcanic Landslides and Debris Avalanches. <i>Advances in Volcanology</i> , 2021, , 51-73.	1.1	11
25	Geophysical Footprints of Cotopaxi&TM's Unrest and Minor Eruptions in 2015: An Opportunity to Test Scientific and Community Preparedness. <i>Advances in Volcanology</i> , 2017, , 241-270.	1.1	10
26	Tephra Fallout Probabilistic Hazard Maps for Cotopaxi and Guagua Pichincha Volcanoes (Ecuador) With Uncertainty Quantification. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	8
27	Eruption type probability and eruption source parameters at Cotopaxi and Guagua Pichincha volcanoes (Ecuador) with uncertainty quantification. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	3.0	7
28	Volcanic event management in the Gal&Aipagos Islands, Ecuador. <i>Volcanica</i> , 2022, 5, 209-225.	1.8	7
29	The Need to Quantify Hazard Related to Non-magmatic Unrest: From BET_EF to BET_UNREST. <i>Advances in Volcanology</i> , 2017, , 63-82.	1.1	6
30	Linking ground-based data and satellite monitoring to understand the last two decades of eruptive activity at Sangay volcano, Ecuador. <i>Bulletin of Volcanology</i> , 2022, 84, 1.	3.0	6
31	Interactions between active tectonics and gravitational deformation along the Billecocha fault system (Northern Ecuador): Insights from morphological and paleoseismological investigations. <i>Journal of South American Earth Sciences</i> , 2021, 111, 103406.	1.4	5
32	Revisiting the lacquer peels method with pyroclastic deposits: sediment plates, a precise, fine scale imaging method and powerful outreach tool. <i>Journal of Applied Volcanology</i> , 2018, 7, .	2.0	4
33	Gas Leakage From Shallow Ponding Magma and Trapdoor Faulting at Sierra Negra Volcano (Isabela) Tj ETQq1 1 0.784314 rgBT /Overl	2.5	4
34	Rapid hazard assessment of volcanic ballistic projectiles using long-exposure photographs: insights from the 2010 eruptions at Tungurahua volcano, Ecuador. , 2018, 1, 49-61.		2
35	Structured elicitation of expert judgement in real-time eruption scenarios: an exercise for Piton de la Fournaise volcano, La R&Ounion island. <i>Volcanica</i> , 2022, 5, 105-131.	1.8	2
36	Comments on the paper &quot;Two independent real-time precursors of the 7.8 M earthquake in Ecuador based on radioactive and geodetic processes &quot; Powerful tools for an early warning system&quot; by Toulkeridis et al. (2019). <i>Journal of Geodynamics</i> , 2020, 133, 101648.	1.6	1

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37	Reviewing volcano hazard and risk communications in Ecuador: experiences from a fast-format workshop. <i>Volcanica</i> , 2021, 4, 309-324.	1.8	1
38	Impact of volcanic ash from Cotopaxi-2015 and Tungurahua-2016 eruptions on the dielectric characteristics of suspension insulators, Ecuador. <i>Journal of Applied Volcanology</i> , 2022, 11, .	2.0	0