Philippe Labazuy

List of Publications by Year
in descending order

51 papers	1,663 citations	257357 24 h-index	289141 40 g-index
53 all docs	53 docs citations	53 times ranked	1689 citing authors

#	Article	IF	Citations
1	Growth and collapse of the Reunion Island volcanoes. Bulletin of Volcanology, 2008, 70, 717-742.	1.1	121
2	A year of lava fountaining at Etna: Volumes from SEVIRI. Geophysical Research Letters, 2012, 39, .	1.5	85
3	Geoelectrical structure of the central zone of Piton de la Fournaise volcano (RÃ©union). Bulletin of Volcanology, 2000, 62, 75-89.	1.1	83
4	Recurrence of major flank landslides during the last 2-Ma-history of Reunion Island. Bulletin of Volcanology, 2004, 66, 585-598.	1.1	80
5	Towards a muon radiography of the Puy de DÃ´me. Geoscientific Instrumentation, Methods and Data Systems, 2013, 2, 55-60.	0.6	80
6	Landslideâ€generated tsunamis at RÃ©union Island. Journal of Geophysical Research, 2010, 115, .	3.3	79
7	An unloading foam model to constrain Etna's 11-13 January 2011 lava fountaining episode. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	72
8	Landslides and spreading of oceanic hot-spot and arc shield volcanoes on Low Strength Layers (LSLs): an analogue modeling approach. Journal of Volcanology and Geothermal Research, 2005, 144, 169-189.	0.8	70
9	Deepâ€sea volcaniclastic sedimentary systems: an example from La Fournaise volcano, RÃ©union Island, Indian Ocean. Sedimentology, 1998, 45, 293-330.	1.6	65
10	Morphological analysis of active Mount Nemrut stratovolcano, eastern Turkey: evidences and possible impact areas of future eruption. Journal of Volcanology and Geothermal Research, 2003, 123, 301-312.	0.8	64
11	Joint measurement of the atmospheric muon flux through the Puy de DÃ´me volcano with plastic scintillators and Resistive Plate Chambers detectors. Journal of Geophysical Research: Solid Earth, 2015, 120, 7290-7307.	1.4	62
12	IMS observations of infrasound and acoustic-gravity waves produced by the January 2022 volcanic eruption of Hunga, Tonga: A global analysis. Earth and Planetary Science Letters, 2022, 591, 117639.	1.8	54
13	Recurrent landslides events on the submarine flank of Piton de la Fournaise volcano (Reunion Island). Geological Society Special Publication, 1996, 110, 295-306.	0.8	53
14	The volcano-electric effect. Journal of Geophysical Research, 2003, 108, .	3.3	53
15	Physical and optical properties of 2010 EyjafjallajÃ¶kull volcanic eruption aerosol: ground-based, Lidar and airborne measurements in France. Atmospheric Chemistry and Physics, 2012, 12, 1721-1736.	1.9	53
16	EyjafjallajÃ¶kull ash concentrations derived from both lidar and modeling. Journal of Geophysical Research, 2012, 117, .	3.3	51
17	Localization of self-potential sources in volcano-electric effect with complex continuous wavelet transform and electrical tomography methods for an active volcano. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	45
18	HOTVOLC: a web-based monitoring system for volcanic hot spots. Geological Society Special Publication, 2016, 426, 223-241.	0.8	40

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19	Lava discharge during Etna's January 2011 fire fountain tracked using MSG-SEVIRI. Bulletin of Volcanology, 2012, 74, 787-793.	1.1	37
20	LiDAR derived morphology of the 1993 Lascar pyroclastic flow deposits, and implication for flow dynamics and rheology. Journal of Volcanology and Geothermal Research, 2012, 245-246, 81-97.	0.8	36
21	Electrical resistivity tomography and time-domain induced polarization field investigations of geothermal areas at Krafla, Iceland: comparison to borehole and laboratory frequency-domain electrical observations. Geophysical Journal International, 2019, 218, 1469-1489.	1.0	32
22	Improved space borne detection of volcanic ash for real-time monitoring using 3-Band method. Journal of Volcanology and Geothermal Research, 2015, 293, 25-45.	0.8	30
23	Geoscientists in the Sky: Unmanned Aerial Vehicles Responding to Geohazards. Surveys in Geophysics, 2020, 41, 1285-1321.	2.1	30
24	Volcanic and deformation history of the Bodrum resurgent caldera system (southwestern Turkey). Journal of Volcanology and Geothermal Research, 2004, 136, 71-96.	0.8	27
25	Structure of the Nemrut caldera (Eastern Anatolia, Turkey) and associated hydrothermal fluid circulation. Journal of Volcanology and Geothermal Research, 2008, 174, 269-283.	0.8	27
26	Inner structure of the Puy de DÃ´me volcano: cross-comparison of geophysical models (ERT,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 T	0.6	25
27	Modern Multispectral Sensors Help Track Explosive Eruptions. Eos, 2013, 94, 321-322.	0.1	23
28	Near real-time monitoring of the April-May 2010 EyjafjallajÃ¶kull ash cloud: an example of a web-based, satellite data-driven, reporting system. International Journal of Environment and Pollution, 2012, 48, 262.	0.2	21
29	Volcanological evolution and caldera forming eruptions of Mt. Nemrut (Eastern Turkey). Journal of Volcanology and Geothermal Research, 2012, 245-246, 21-39.	0.8	19
30	Bayesian joint muographic and gravimetric inversion applied to volcanoes. Geophysical Journal International, 2019, 218, 2179-2194.	1.0	19
31	Geophysical imaging of the inner structure of a lava dome and its environment through gravimetry and magnetism. Journal of Volcanology and Geothermal Research, 2016, 320, 88-99.	0.8	15
32	Electrical conductivity and induced polarization investigations at Krafla volcano, Iceland. Journal of Volcanology and Geothermal Research, 2018, 368, 73-90.	0.8	12
33	STcorr: An IDL code for image based normalization of lapse rate and illumination effects on nighttime TIR imagery. Computers and Geosciences, 2012, 43, 63-72.	2.0	11
34	Validation of a New UAV Magnetic Prospecting Tool for Volcano Monitoring and Geohazard Assessment. Remote Sensing, 2021, 13, 894.	1.8	11
35	3D electrical imaging of the inner structure of a complex lava dome, Puy de DÃ´me volcano (French) Tj ETQq1 1 0.784314 rgBT /Overl	0.8	10
36	Grand Sarcoui volcano (ChaÃ®ne des Puys, Massif Central, France), a case study for monogenetic trachytic lava domes. Journal of Volcanology and Geothermal Research, 2017, 345, 125-141.	0.8	9

#	Article	IF	Citations
37	Robust Bayesian Joint Inversion of Gravimetric and Muographic Data for the Density Imaging of the Puy de DÃ´me Volcano (France). Frontiers in Earth Science, 2021, 8, .	0.8	9
38	Quantifying multiple electromagnetic properties in EMI surveys: A case study of hydromorphic soils in a volcanic context â€“ The Lac du Puy (France). Geoderma, 2020, 361, 114084.	2.3	5
39	A method for 3D reconstruction of volcanic bomb trajectories. Bulletin of Volcanology, 2020, 82, 1.	1.1	5
40	Multidisciplinary Study of the Impacts of the 1600 CE Huaynaputina Eruption and a Project for Geosites and Geo-touristic Attractions. Geoheritage, 2021, 13, 1.	1.5	5
41	Correlating hydrothermal system dynamics and eruptive activity â€“ A case-study of Piton de la Fournaise volcano, La RÃ©union. Journal of Volcanology and Geothermal Research, 2018, 363, 23-39.	0.8	4
42	Multiâ€directional derivation of selfâ€potential/elevation gradient (Ce) maps â€“ swirl procedure. Near Surface Geophysics, 2013, 11, 275-282.	0.6	3
43	Air shower simulation for background estimation in muon tomography of volcanoes. Geoscientific Instrumentation, Methods and Data Systems, 2013, 2, 11-15.	0.6	3
44	L'origine de la roche mise en Å“uvre pour la construction du temple de Mercure, au sommet du Puy de DÃ´me, Ã©lucidÃ©e, et les implications archÃ©ologiques. Journal of Roman Archaeology, 2013, 26, 122-142.	0.1	2
45	Geochemical insights into the internal dynamics of debris avalanches. A case study: The Socompa avalanche, Chile. Geochemistry, Geophysics, Geosystems, 2014, 15, 2282-2300.	1.0	2
46	Post-eruption evolution of maar lakes and potential instability: The Lake Pavin case study, French Massif Central. Geomorphology, 2021, 382, 107663.	1.1	2
47	Geology, Geomorphology and Slope Instability of the Maar Lake Pavin (Auvergne, French Massif) Tj ETQq1 1 0.784314 rgBT /Overlock		2
48	Structured elicitation of expert judgement in real-time eruption scenarios: an exercise for Piton de la Fournaise volcano, La RÃ©union island. Volcanica, 2022, 5, 105-131.	0.6	2
49	Active structures and thermal state of the Piton de la Fournaise summit revealed by combined UAV magnetic and thermal infrared measurements. Volcanica, 2022, 5, 61-74.	0.6	1
50	Geophysical Experimental Survey on Flood Protection Dikes - The Case Study of the Loire River Basin. , 2015, , .		0
51	Active structures and thermal state of the Piton de la Fournaise summit revealed by combined UAV magnetic and thermal infrared measurements. Volcanica, 2022, 5, 41-54.	0.6	0