

Corentin Caudron

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

2,190
citations

304602

22
h-index

233338

45
g-index

62
all docs

62
docs citations

62
times ranked

2441
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights into the dynamics of the 2010 Eyjafjallajökull eruption using seismic interferometry and network covariance matrix analyses. <i>Earth and Planetary Science Letters</i> , 2022, 585, 117502.	1.8	2
2	Seismic precursors to the Whakaari 2019 phreatic eruption are transferable to other eruptions and volcanoes. <i>Nature Communications</i> , 2022, 13, 2002.	5.8	18
3	Turbulence-induced bubble nucleation in hydrothermal fluids beneath Yellowstone Lake. <i>Communications Earth & Environment</i> , 2022, 3, .	2.6	3
4	Atmospheric waves and global seismoacoustic observations of the January 2022 Hunga eruption, Tonga. <i>Science</i> , 2022, 377, 95-100.	6.0	170
5	Phreatic and Hydrothermal Eruptions: From Overlooked to Looking Over. <i>Bulletin of Volcanology</i> , 2022, 84, .	1.1	11
6	Temporal Seismic Velocity Changes During the 2020 Rapid Inflation at Mt. Þórbjörnsvartsengi, Iceland, Using Seismic Ambient Noise. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092265.	1.5	21
7	A quest for unrest in multiparameter observations at Whakaari/White Island volcano, New Zealand 2007–2018. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	19
8	Gas detection and quantification using iXblue Echoes high-resolution sub-bottom profiler and Seapix 3D multibeam echosounder from the Laacher See (Eifel, Germany). , 2021, , .		0
9	Global quieting of high-frequency seismic noise due to COVID-19 pandemic lockdown measures. <i>Science</i> , 2020, 369, 1338-1343.	6.0	202
10	Carbon Dioxide in Taal Volcanic Lake: A Simple Gasometer for Volcano Monitoring. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090884.	1.5	11
11	Seismic velocity variations associated with the 2018 lower East Rift Zone eruption of Kīlauea, Hawai'i. <i>Bulletin of Volcanology</i> , 2020, 82, 1.	1.1	15
12	Mobility of REE from a hyperacid brine to secondary minerals precipitated in a volcanic hydrothermal system: Kawah Ijen crater lake (Java, Indonesia). <i>Science of the Total Environment</i> , 2020, 740, 140133.	3.9	11
13	Migration of seismic activity associated with phreatic eruption at Merapi volcano, Indonesia. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 396, 106795.	0.8	8
14	Editorial: Towards Improved Forecasting of Volcanic Eruptions. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	5
15	Reconstruction of the 2018 tsunamigenic flank collapse and eruptive activity at Anak Krakatau based on eyewitness reports, seismo-acoustic and satellite observations. <i>Earth and Planetary Science Letters</i> , 2020, 541, 116268.	1.8	23
16	â€Silentâ€™ Dome Emplacement into a Wet Volcano: Observations from an Effusive Eruption at White Island (Whakaari), New Zealand in Late 2012. <i>Geosciences (Switzerland)</i> , 2020, 10, 142.	1.0	17
17	Messages in the Bubbles. <i>Eos</i> , 2020, 101, .	0.1	1
18	Explosive Eruptions With Little Warning: Experimental Petrology and Volcano Monitoring Observations From the 2014 Eruption of Kelud, Indonesia. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 4218-4247.	1.0	24

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19	Change in seismic attenuation as a long-term precursor of gas-driven eruptions. <i>Geology</i> , 2019, 47, 632-636.	2.0	21
20	Temporal Changes of Seismic Velocity Caused by Volcanic Activity at Mt. Etna Revealed by the Autocorrelation of Ambient Seismic Noise. <i>Frontiers in Earth Science</i> , 2019, 6, .	0.8	16
21	Origin of Shallow Volcanic Tremor: The Dynamics of Gas Pockets Trapped Beneath Thin Permeable Media. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 4831-4861.	1.4	36
22	Crustal seismic velocity responds to a magmatic intrusion and seasonal loading in Iceland's Northern Volcanic Zone. <i>Science Advances</i> , 2019, 5, eaax6642.	4.7	31
23	Volcanic, Coseismic, and Seasonal Changes Detected at White Island (Whakaari) Volcano, New Zealand, Using Seismic Ambient Noise. <i>Geophysical Research Letters</i> , 2019, 46, 99-108.	1.5	32
24	Atmospheric Controls on Ground- and Space-Based Remote Detection of Volcanic Ash Injection into the Atmosphere, and Link to Early Warning Systems for Aviation Hazard Mitigation. , 2019, , 1079-1105.		11
25	Le Ruapehu, un volcan sensible Å la Lune. <i>Pourlascience Fr</i> , 2019, NÅ° 495 - janvier, 38-42.	0.0	0
26	Long-period seismicity reveals magma pathways above a laterally propagating dyke during the 2014-15 Bárðarbunga rifting event, Iceland. <i>Earth and Planetary Science Letters</i> , 2018, 490, 216-229.	1.8	30
27	Seismic Amplitude Ratio Analysis of the 2014-2015 Bárðarbunga-Holuhraun Dike Propagation and Eruption. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 264-276.	1.4	19
28	Sensitivity to lunar cycles prior to the 2007 eruption of Ruapehu volcano. <i>Scientific Reports</i> , 2018, 8, 1476.	1.6	36
29	Volcano-hydrothermal system and activity of Sirung volcano (Pantar Island, Indonesia). <i>Journal of Volcanology and Geothermal Research</i> , 2018, 357, 186-199.	0.8	4
30	Inversion of the horizontal-to-vertical spectral ratio in presence of strong lateral heterogeneity. <i>Geophysical Journal International</i> , 2018, 212, 930-941.	1.0	20
31	Anatomy of phreatic eruptions. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	24
32	Structure of the acid hydrothermal system of Papandayan volcano, Indonesia, investigated by geophysical methods. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 358, 77-86.	0.8	18
33	New insights into the Kawah Ijen hydrothermal system from geophysical data. <i>Geological Society Special Publication</i> , 2017, 437, 57-72.	0.8	8
34	New insights into Kawah Ijen's volcanic system from the wet volcano workshop experiment. <i>Geological Society Special Publication</i> , 2017, 437, 35-56.	0.8	24
35	Geophysics From Terrestrial Time-Variable Gravity Measurements. <i>Reviews of Geophysics</i> , 2017, 55, 938-992.	9.0	157
36	Geochemistry and geophysics of active volcanic lakes: an introduction. <i>Geological Society Special Publication</i> , 2017, 437, 1-8.	0.8	8

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37	Relative seismic velocity variations correlate with deformation at K�lauea volcano. Science Advances, 2017, 3, e1700219.	4.7	58
38	Stratification at the Earth's largest hyperacidic lake and its consequences. Earth and Planetary Science Letters, 2017, 459, 28-35.	1.8	12
39	The Gravity of Geophysics. Eos, 2017, 98, .	0.1	1
40	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
41	Single-station monitoring of volcanoes using seismic ambient noise. Geophysical Research Letters, 2016, 43, 8511-8518.	1.5	41
42	High spatio-temporal resolution observations of crater lake temperatures at Kawah Ijen volcano, East Java, Indonesia. Bulletin of Volcanology, 2016, 78, 1.	1.1	9
43	Infrasound and seismic detections associated with the 7 September 2015 Bangkok fireball. Geoscience Letters, 2016, 3, .	1.3	11
44	Stress and mass changes at a �ewet� volcano: Example during the 2011�2012 volcanic unrest at Kawah Ijen volcano (Indonesia). Journal of Geophysical Research: Solid Earth, 2015, 120, 5117-5134.	1.4	34
45	On the use of remote infrasound and seismic stations to constrain the eruptive sequence and intensity for the 2014 Kelud eruption. Geophysical Research Letters, 2015, 42, 6614-6621.	1.5	34
46	Magma migration at the onset of the 2012�13 Tolbachik eruption revealed by Seismic Amplitude Ratio Analysis. Journal of Volcanology and Geothermal Research, 2015, 307, 60-67.	0.8	28
47	Velocity models and site effects at Kawah Ijen volcano and Ijen caldera (Indonesia) determined from ambient noise cross-correlations and directional energy density spectral ratios. Journal of Volcanology and Geothermal Research, 2015, 302, 173-189.	0.8	26
48	Kawah Ijen volcanic activity: a review. Bulletin of Volcanology, 2015, 77, 1.	1.1	35
49	ObsPy: a bridge for seismology into the scientific Python ecosystem. Computational Science & Discovery, 2015, 8, 014003.	1.5	531
50	Multidisciplinary Monitoring Experiments at Kawah Ijen Volcano. Eos, 2014, 95, 447-448.	0.1	2
51	MSNoise, a Python Package for Monitoring Seismic Velocity Changes Using Ambient Seismic Noise. Seismological Research Letters, 2014, 85, 715-726.	0.8	148
52	Fluid dynamics inside a �ewet� volcano inferred from the complex frequencies of long-period (LP) events: An example from Papandayan volcano, West Java, Indonesia, during the 2011 seismic unrest. Journal of Volcanology and Geothermal Research, 2014, 280, 76-89.	0.8	20
53	Space- and ground-based measurements of sulphur dioxide emissions from Turrialba Volcano (Costa Rica). Journal of Geophysical Research, 2014, 119, 1043-1053.	1.1	63
54	Carbon dioxide dynamics in Kelud volcanic lake. Journal of Geophysical Research, 2012, 117, .	3.3	53

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55	Permanent, seasonal, and episodic seismic sources around Vatnajökull, Iceland, from the analysis of correlograms. <i>Volcanica</i> , 0, , 135-147.	0.6	1