

Marcello Bitetto

List of Publications by Year in descending order

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33
papers

698
citations

516710

16
h-index

552781

26
g-index

34
all docs

34
docs citations

34
times ranked

854
citing authors

#	ARTICLE	IF	CITATIONS
1	A CO_2 gas precursor to the March 2015 Villarrica volcano eruption. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 2120-2132.	2.5	66
2	Tracking Formation of a Lava Lake From Ground and Space: Masaya Volcano (Nicaragua), 2014–2017. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 496-515.	2.5	52
3	Intense magmatic degassing through the lake of Copahue volcano, 2013–2014. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 6071-6084.	3.4	50
4	Escalating CO_2 degassing at the Pisciarelli fumarolic system, and implications for the ongoing Campi Flegrei unrest. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 384, 151-157.	2.1	43
5	Dynamics of Outgassing and Plume Transport Revealed by Proximal Unmanned Aerial System (UAS) Measurements at Volcán Villarrica, Chile. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 730-750.	2.5	41
6	The structure of a hydrothermal system from an integrated geochemical, geophysical, and geological approach: The Ischia Island case study. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	34
7	The sea–air exchange of mercury (Hg) in the marine boundary layer of the Augusta basin (southern Tyrrhenian Sea). <i>Journal of Geophysical Research</i> , 2017, 122, 8234–8247.	8.2	34
8	Spatially resolved SO_2 flux emissions from Mt Etna. <i>Geophysical Research Letters</i> , 2016, 43, 7511-7519.	4.0	34
9	Ultraviolet Imaging of Volcanic Plumes: A New Paradigm in Volcanology. <i>Geosciences (Switzerland)</i> , 2017, 7, 68.	2.2	34
10	Gas mass derived by infrasound and UV cameras: Implications for mass flow rate. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 325, 169-178.	2.1	32
11	Combined ground and aerial measurements resolve vent-specific gas fluxes from a multi-vent volcano. <i>Nature Communications</i> , 2020, 11, 3039.	12.8	27
12	The Magmatic Gas Signature of Pacaya Volcano, With Implications for the Volcanic CO_2 Flux From Guatemala. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 667-692.	2.5	26
13	Ground deformation reveals the scale-invariant conduit dynamics driving explosive basaltic eruptions. <i>Nature Communications</i> , 2021, 12, 1683.	12.8	26
14	Volcanic CO_2 tracks the incubation period of basaltic paroxysms. <i>Science Advances</i> , 2021, 7, eabh0191.	10.3	25
15	Aerial strategies advance volcanic gas measurements at inaccessible, strongly degassing volcanoes. <i>Science Advances</i> , 2020, 6, .	10.3	24
16	Exploring the explosive–effusive transition using permanent ultraviolet cameras. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 4377-4394.	3.4	22
17	Changes in SO_2 Flux Regime at Mt. Etna Captured by Automatically Processed Ultraviolet Camera Data. <i>Remote Sensing</i> , 2019, 11, 1201.	4.0	20
18	Dukono, the predominant source of volcanic degassing in Indonesia, sustained by a depleted Indian-MORB. <i>Bulletin of Volcanology</i> , 2018, 80, 1.	3.0	16

#	ARTICLE	IF	CITATIONS
19	Volcanic activity and gas emissions along the South Sandwich Arc. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	3.0	14
20	Insights Into the Mechanisms of Phreatic Eruptions From Continuous High Frequency Volcanic Gas Monitoring: Rinc�n de la Vieja Volcano, Costa Rica. <i>Frontiers in Earth Science</i> , 2019, 6, .	1.8	12
21	Understanding the SO ₂ Degassing Budget of Mt Etna's Paroxysms: First Clues From the December 2015 Sequence. <i>Frontiers in Earth Science</i> , 2019, 6, .	1.8	10
22	BVLOS UAS Operations in Highly-Turbulent Volcanic Plumes. <i>Frontiers in Robotics and AI</i> , 2020, 7, 549716.	3.2	10
23	A Novel and Inexpensive Method for Measuring Volcanic Plume Water Fluxes at High Temporal Resolution. <i>Remote Sensing</i> , 2017, 9, 146.	4.0	7
24	Sulfur Degassing From Steam-Heated Crater Lakes: El Chich�n (Chiapas, Mexico) and V�ti (Iceland). <i>Geophysical Research Letters</i> , 2018, 45, 7504-7513.	4.0	7
25	The fumarolic CO ₂ output from Pico do Fogo volcano (Cape Verde). <i>Italian Journal of Geosciences</i> , 2020, 139, 325-340.	0.8	7
26	Changes in heat released by hydrothermal circulation monitored during an eruptive cycle at Mt. Etna (Italy). <i>Bulletin of Volcanology</i> , 2018, 80, 1.	3.0	5
27	Volcanic Gas Emissions Along the Colombian Arc Segment of the Northern Volcanic Zone (CAS�NVZ): Implications for volcano monitoring and volatile budget of the Andean Volcanic Belt. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 5057-5081.	2.5	5
28	The crater lake of Ilamatepec (Santa Ana) volcano, El Salvador: insights into lake gas composition and implications for monitoring. <i>Bulletin of Volcanology</i> , 2019, 81, 1.	3.0	4
29	First simultaneous mercury and major volatiles characterization of atmospheric hydrothermal emissions at the Pisciarelli's fumarolic system (Campi Flegrei, Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2020, 406, 107074.	2.1	4
30	First In-Situ Measurements of Plume Chemistry at Mount Garet Volcano, Island of Gaua (Vanuatu). <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7293.	2.5	4
31	Elevated CO ₂ Emissions during Magmatic-Hydrothermal Degassing at Awu Volcano, Sangihe Arc, Indonesia. <i>Geosciences (Switzerland)</i> , 2020, 10, 470.	2.2	2
32	Compositional measurement of gas emissions in the Eastern Carpathians (Romania) using the Multi-GAS instrument: Approach for in situ data gathering at non-volcanic areas. <i>Journal of Geochemical Exploration</i> , 2022, 240, 107051.	3.2	1
33	Reply to Kern, C. The Difficulty of Measuring the Absorption of Scattered Sunlight by H ₂ O and CO ₂ in Volcanic Plumes: A Comment on Pering, et al. "A Novel and Inexpensive Method for Measuring Volcanic Plume Water Fluxes at High Temporal Resolution", <i>Remote Sens.</i> 2017, 9, 146. <i>Remote Sensing</i> , 2017, 9, 1040.	4.0	0