

Marco Liuzzo

List of Publications by Year in descending order

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52
papers

2,508
citations

218677

26
h-index

197818

49
g-index

57
all docs

57
docs citations

57
times ranked

1761
citing authors

#	ARTICLE	IF	CITATIONS
1	Wavelet-based filtering and prediction of soil CO ₂ flux: Example from Etna volcano (Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2022, 421, 107421.	2.1	2
2	Chemical variability in volcanic gas plumes and fumaroles along the East African Rift System: New insights from the Western Branch. <i>Chemical Geology</i> , 2022, 596, 120811.	3.3	1
3	Chapter 7.3 of Mount Melbourne and Mount Rittmann. <i>Geological Society Memoir</i> , 2021, 55, 741-758.	1.7	12
4	The first observations of CO ₂ and CO ₂ /SO ₂ degassing variations recorded at Mt. Etna during the 2018 eruptions followed by three strong earthquakes. <i>Italian Journal of Geosciences</i> , 2021, 140, 95-106.	0.8	10
5	Gas Geochemistry at Grande Comore and Mayotte Volcanic Islands (Comoros Archipelago), Indian Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009870.	2.5	8
6	Intense overpressurization at basaltic open-conduit volcanoes as inferred by geochemical signals: The case of the Mt. Etna December 2018 eruption. <i>Science Advances</i> , 2021, 7, eabg6297.	10.3	20
7	Volcano Crisis Management at Piton de la Fournaise (La Réunion) during the COVID-19 Lockdown. <i>Seismological Research Letters</i> , 2021, 92, 38-52.	1.9	12
8	Recommendations and Protocols for the Use of the Isotope Ratio Infrared Spectrometer (Delta Ray) to Measure Stable Isotopes from CO ₂ : An Application to Volcanic Emissions at Mount Etna and Stromboli (Sicily, Italy). <i>Geofluids</i> , 2020, 2020, 1-21.	0.7	1
9	The SoilExp software: An open-source Graphical User Interface (GUI) for post-processing spatial and temporal soil surveys. <i>Computers and Geosciences</i> , 2020, 142, 104553.	4.2	3
10	Volcanic Plume Aging During Passive Degassing and Low Eruptive Events of Etna and Stromboli Volcanoes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 11389-11405.	3.3	9
11	Volcanic Gas Emissions Along the Colombian Arc Segment of the Northern Volcanic Zone (CASNVZ): Implications for volcano monitoring and volatile budget of the Andean Volcanic Belt. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 5057-5081.	2.5	5
12	Variations in CO ₂ emissions at a mud volcano at the southern base of Mt Etna: are they due to volcanic activity interference or a geyser-like mechanism?. <i>Bulletin of Volcanology</i> , 2019, 81, 1.	3.0	5
13	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
14	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
15	The primary volcanic aerosol emission from Mt Etna: Size-resolved particles with SO ₂ and role in plume reactive halogen chemistry. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 222, 74-93.	3.9	29
16	New insights into the magmatic-hydrothermal system and volatile budget of Lastarria volcano, Chile: Integrated results from the 2014 IAVCEI CCGV 12th Volcanic Gas Workshop. , 2018, 14, 983-1007.		23
17	Small-scale spatial variability of soil CO ₂ flux: Implication for monitoring strategy. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 366, 13-26.	2.1	11
18	Implementation of electrochemical, optical and denuder-based sensors and sampling techniques on UAV for volcanic gas measurements: examples from Masaya, Turrialba and Stromboli volcanoes. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 2441-2457.	3.1	47

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19	Extensive CO ₂ degassing in the upper mantle beneath oceanic basaltic volcanoes: First insights from Piton de la Fournaise volcano (La Réunion Island). <i>Geochimica Et Cosmochimica Acta</i> , 2018, 235, 376-401.	3.9	43
20	A CO ₂ gas precursor to the March 2015 Villarrica volcano eruption. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 2120-2132.	2.5	66
21	Investigating the deepest part of a volcano plumbing system: Evidence for an active magma path below the western flank of Piton de la Fournaise (La Réunion Island). <i>Journal of Volcanology and Geothermal Research</i> , 2017, 341, 193-207.	2.1	22
22	New perspectives on volcano monitoring in a tropical environment: Continuous measurements of soil CO ₂ flux at Piton de la Fournaise (La Réunion Island, France). <i>Geophysical Research Letters</i> , 2017, 44, 8244-8253.	4.0	25
23	Validation of a novel Multi-Gas sensor for volcanic HCl alongside H ₂ S and SO ₂ at Mt. Etna. <i>Bulletin of Volcanology</i> , 2017, 79, 36.	3.0	16
24	New Advances in Dial-Lidar-Based Remote Sensing of the Volcanic CO ₂ Flux. <i>Frontiers in Earth Science</i> , 2017, 5, .	1.8	8
25	Turmoil at Turrialba Volcano (Costa Rica): Degassing and eruptive processes inferred from high-frequency gas monitoring. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 5761-5775.	3.4	105
26	Short-period volcanic gas precursors to phreatic eruptions: Insights from Poás Volcano, Costa Rica. <i>Earth and Planetary Science Letters</i> , 2016, 442, 218-227.	4.4	105
27	Terminal Strombolian activity at Etna's central craters during summer 2012: The most CO ₂ -rich volcanic gas ever recorded at Mount Etna. <i>Geochemical Journal</i> , 2016, 50, 123-138.	1.0	11
28	Pressurization and depressurization phases inside the plumbing system of Mount Etna volcano: Evidence from a multiparametric approach. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 5965-5982.	3.4	36
29	The 2014 effusive eruption at Stromboli volcano (Italy): Inferences from soil CO ₂ flux and ³ He/ ⁴ He ratio in thermal waters. <i>Geophysical Research Letters</i> , 2015, 42, 2235-2243.	4.0	42
30	New evidence of CO ₂ soil degassing anomalies on Piton de la Fournaise volcano and the link with volcano tectonic structures. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 4388-4404.	2.5	25
31	A comprehensive interpretative model of slow slip events on Mt. Etna's eastern flank. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 635-658.	2.5	48
32	Real-time measurements of ¹³ C, CO ₂ concentration, and CO ₂ /SO ₂ in volcanic plume gases at Mount Etna, Italy, over 5 consecutive days. <i>Chemical Geology</i> , 2015, 411, 182-191.	3.3	18
33	Emission of gas and atmospheric dispersion of SO ₂ during the December 2013 eruption at San Miguel volcano (El Salvador, Central America). <i>Geophysical Research Letters</i> , 2015, 42, 5847-5854.	4.0	16
34	Major eruptive style changes induced by structural modifications of a shallow conduit system: the 2007-2012 Stromboli case. <i>Bulletin of Volcanology</i> , 2014, 76, 1.	3.0	50
35	Compositionally zoned crystals and real-time degassing data reveal changes in magma transfer dynamics during the 2006 summit eruptive episodes of Mt. Etna. <i>Bulletin of Volcanology</i> , 2013, 75, 1.	3.0	103
36	Soil gases and SAR measurements reveal hidden faults on the sliding flank of Mt. Etna (Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2013, 251, 27-40.	2.1	39

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37	Ten years of soil CO ₂ continuous monitoring on Mt. Etna: Exploring the relationship between processes of soil degassing and volcanic activity. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2886-2899.	2.5	42
38	First volatile inventory for Gorely volcano, Kamchatka. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	52
39	Hydrogen in the gas plume of an open-vent volcano, Mount Etna, Italy. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	70
40	New clues on the contribution of Earth's volcanism to the global mercury cycle. <i>Bulletin of Volcanology</i> , 2011, 73, 497-510.	3.0	54
41	First observational evidence for the CO ₂ -driven origin of Stromboli's major explosions. <i>Solid Earth</i> , 2011, 2, 135-142.	2.8	56
42	Relationship between soil CO ₂ flux and volcanic tremor at Mt. Etna: Implications for magma dynamics. <i>Environmental Earth Sciences</i> , 2010, 61, 477-489.	2.7	21
43	Patterns in the recent 2007-2008 activity of Mount Etna volcano investigated by integrated geophysical and geochemical observations. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	88
44	Unusually large magmatic CO ₂ gas emissions prior to a basaltic paroxysm. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	95
45	A model of degassing for Stromboli volcano. <i>Earth and Planetary Science Letters</i> , 2010, 295, 195-204.	4.4	148
46	The 2007 eruption of Stromboli volcano: Insights from real-time measurement of the volcanic gas plume CO ₂ /SO ₂ ratio. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 182, 221-230.	2.1	155
47	Continuous monitoring of soil CO ₂ flux on Mt. Etna: The 2004-2005 eruption and the role of regional tectonics and volcano tectonics. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	22
48	Variation of H ₂ O/CO ₂ and CO ₂ /SO ₂ ratios of volcanic gases discharged by continuous degassing of Mount Etna volcano, Italy. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	74
49	Total volatile flux from Mount Etna. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	112
50	Forecasting Etna eruptions by real-time observation of volcanic gas composition. <i>Geology</i> , 2007, 35, 1115.	4.4	270
51	Rates of carbon dioxide plume degassing from Mount Etna volcano. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	86
52	Emission of bromine and iodine from Mount Etna volcano. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	116