Marco Liuzzo

List of Publications by Year in descending order

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	Forecasting Etna eruptions by real-time observation of volcanic gas composition. Geology, 2007, 35, 1115.	4.4	270
2	The 2007 eruption of Stromboli volcano: Insights from real-time measurement of the volcanic gas plume CO2/SO2 ratio. Journal of Volcanology and Geothermal Research, 2009, 182, 221-230.	2.1	155
3	A model of degassing for Stromboli volcano. Earth and Planetary Science Letters, 2010, 295, 195-204.	4.4	148
4	Emission of bromine and iodine from Mount Etna volcano. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	116
5	Total volatile flux from Mount Etna. Geophysical Research Letters, 2008, 35, .	4.0	112
6	Turmoil at Turrialba Volcano (Costa Rica): Degassing and eruptive processes inferred from highâ€frequency gas monitoring. Journal of Geophysical Research: Solid Earth, 2016, 121, 5761-5775.	3.4	105
7	Short-period volcanic gas precursors to phreatic eruptions: Insights from PoÃ¡s Volcano, Costa Rica. Earth and Planetary Science Letters, 2016, 442, 218-227.	4.4	105
8	Compositionally zoned crystals and real-time degassing data reveal changes in magma transfer dynamics during the 2006 summit eruptive episodes of Mt. Etna. Bulletin of Volcanology, 2013, 75, 1.	3.0	103
9	Unusually large magmatic CO₂ gas emissions prior to a basaltic paroxysm. Geophysical Research Letters, 2010, 37, .	4.0	95
10	Patterns in the recent 2007â€“2008 activity of Mount Etna volcano investigated by integrated geophysical and geochemical observations. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	88
11	Rates of carbon dioxide plume degassing from Mount Etna volcano. Journal of Geophysical Research, 2006, 111, .	3.3	86
12	Variation of H₂O/CO₂ and CO₂/SO₂ ratios of volcanic gases discharged by continuous degassing of Mount Etna volcano, Italy. Journal of Geophysical Research, 2008, 113, .	3.3	74
13	Hydrogen in the gas plume of an open-vent volcano, Mount Etna, Italy. Journal of Geophysical Research, 2011, 116, .	3.3	70
14	A <scp>CO</scp>₂â€gas precursor to the <scp>M</scp>arch 2015 <scp>V</scp>illarrica volcano eruption. Geochemistry, Geophysics, Geosystems, 2017, 18, 2120-2132.	2.5	66
15	First observational evidence for the CO₂-driven origin of Stromboli's major explosions. Solid Earth, 2011, 2, 135-142.	2.8	56
16	New clues on the contribution of Earthâ€™s volcanism to the global mercury cycle. Bulletin of Volcanology, 2011, 73, 497-510.	3.0	54
17	First volatile inventory for Gorely volcano, Kamchatka. Geophysical Research Letters, 2012, 39, .	4.0	52
18	Tracking Formation of a Lava Lake From Ground and Space: Masaya Volcano (Nicaragua), 2014â€“2017. Geochemistry, Geophysics, Geosystems, 2018, 19, 496-515.	2.5	52

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19	Major eruptive style changes induced by structural modifications of a shallow conduit system: the 2007â€“2012 Stromboli case. Bulletin of Volcanology, 2014, 76, 1.	3.0	50
20	A comprehensive interpretative model of slow slip events on Mt. Etna's eastern flank. Geochemistry, Geophysics, Geosystems, 2015, 16, 635-658.	2.5	48
21	Implementation of electrochemical, optical and denuder-based sensors and sampling techniques on UAV for volcanic gas measurements: examples from Masaya, Turrialba andÂStromboliÂvolcanoes. Atmospheric Measurement Techniques, 2018, 11, 2441-2457.	3.1	47
22	Extensive CO2 degassing in the upper mantle beneath oceanic basaltic volcanoes: First insights from Piton de la Fournaise volcano (La RÃ©union Island). Geochimica Et Cosmochimica Acta, 2018, 235, 376-401.	3.9	43
23	Ten years of soil CO₂ continuous monitoring on Mt. Etna: Exploring the relationship between processes of soil degassing and volcanic activity. Geochemistry, Geophysics, Geosystems, 2013, 14, 2886-2899.	2.5	42
24	The 2014 effusive eruption at Stromboli volcano (Italy): Inferences from soil CO₂ flux and ³He/⁴He ratio in thermal waters. Geophysical Research Letters, 2015, 42, 2235-2243.	4.0	42
25	Soil gases and SAR measurements reveal hidden faults on the sliding flank of Mt. Etna (Italy). Journal of Volcanology and Geothermal Research, 2013, 251, 27-40.	2.1	39
26	Pressurization and depressurization phases inside the plumbing system of Mount Etna volcano: Evidence from a multiparametric approach. Journal of Geophysical Research: Solid Earth, 2015, 120, 5965-5982.	3.4	36
27	The primary volcanic aerosol emission from Mt Etna: Size-resolved particles with SO2 and role in plume reactive halogen chemistry. Geochimica Et Cosmochimica Acta, 2018, 222, 74-93.	3.9	29
28	New evidence of CO₂ soil degassing anomalies on <scp>P</scp>iton de la <scp>F</scp>ournaise volcano and the link with volcano tectonic structures. Geochemistry, Geophysics, Geosystems, 2015, 16, 4388-4404.	2.5	25
29	New perspectives on volcano monitoring in a tropical environment: Continuous measurements of soil CO₂ flux at Piton de la Fournaise (La RÃ©union Island, France). Geophysical Research Letters, 2017, 44, 8244-8253.	4.0	25
30	New insights into the magmatic-hydrothermal system and volatile budget of Lastarria volcano, Chile: Integrated results from the 2014 IAVCEI CCVG 12th Volcanic Gas Workshop. , 2018, 14, 983-1007.		23
31	Continuous monitoring of soil CO₂ flux on Mt. Etna: The 2004â€“2005 eruption and the role of regional tectonics and volcano tectonics. Journal of Geophysical Research, 2008, 113, .	3.3	22
32	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 RÃ©union Island). Journal of Volcanology and Geothermal Research, 2017, 341, 193-207.	2.1	22
33	Relationship between soil CO2 flux and volcanic tremor at Mt. Etna: Implications for magma dynamics. Environmental Earth Sciences, 2010, 61, 477-489.	2.7	21
34	Intense overpressurization at basaltic open-conduit volcanoes as inferred by geochemical signals: The case of the Mt. Etna December 2018 eruption. Science Advances, 2021, 7, eabg6297.	10.3	20
35	Real-time measurements of Î´13C, CO2 concentration, and CO2/SO2 in volcanic plume gases at Mount Etna, Italy, over 5 consecutive days. Chemical Geology, 2015, 411, 182-191.	3.3	18
36	Emission of gas and atmospheric dispersion of SO₂ during the December 2013 eruption at San Miguel volcano (El Salvador, Central America). Geophysical Research Letters, 2015, 42, 5847-5854.	4.0	16

#	Article	IF	Citations
37	Validation of a novel Multi-Gas sensor for volcanic HCl alongside H2S and SO2 at Mt. Etna. Bulletin of Volcanology, 2017, 79, 36.	3.0	16
38	Dukono, the predominant source of volcanic degassing in Indonesia, sustained by a depleted Indian-MORB. Bulletin of Volcanology, 2018, 80, 1.	3.0	16
39	Chapter 7.3â€ƒMount Melbourne and Mount Rittmann. Geological Society Memoir, 2021, 55, 741-758.	1.7	12
40	Volcano Crisis Management at Piton de la Fournaise (La RÃ©union) during the COVID-19 Lockdown. Seismological Research Letters, 2021, 92, 38-52.	1.9	12
41	Small-scale spatial variability of soil CO2 flux: Implication for monitoring strategy. Journal of Volcanology and Geothermal Research, 2018, 366, 13-26.	2.1	11
42	Terminal Strombolian activity at Etnaâ€™s central craters during summer 2012: The most CO₂-rich volcanic gas ever recorded at Mount Etna. Geochemical Journal, 2016, 50, 123-138.	1.0	11
43	The first observations of CO2 and CO2/SO2 degassing variations recorded at Mt. Etna during the 2018 eruptions followed by three strong earthquakes. Italian Journal of Geosciences, 2021, 140, 95-106.	0.8	10
44	Volcanic Plume Aging During Passive Degassing and Low Eruptive Events of Etna and Stromboli Volcanoes. Journal of Geophysical Research D: Atmospheres, 2019, 124, 11389-11405.	3.3	9
45	New Advances in Dial-Lidar-Based Remote Sensing of the Volcanic CO2 Flux. Frontiers in Earth Science, 2017, 5, .	1.8	8
46	Gas Geochemistry at Grande Comore and Mayotte Volcanic Islands (Comoros Archipelago), Indian Ocean. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009870.	2.5	8
47	Volcanic Gas Emissions Along the Colombian Arc Segment of the Northern Volcanic Zone (CASâ€NVZ): Implications for volcano monitoring and volatile budget of the Andean Volcanic Belt. Geochemistry, Geophysics, Geosystems, 2019, 20, 5057-5081.	2.5	5
48	Variations in CO2 emissions at a mud volcano at the southern base of Mt Etna: are they due to volcanic activity interference or aÂgeyser-like mechanism?. Bulletin of Volcanology, 2019, 81, 1.	3.0	5
49	The SoilExp software: An open-source Graphical User Interface (GUI) for post-processing spatial and temporal soil surveys. Computers and Geosciences, 2020, 142, 104553.	4.2	3
50	Wavelet-based filtering and prediction of soil CO2 flux: Example from Etna volcano (Italy). Journal of Volcanology and Geothermal Research, 2022, 421, 107421.	2.1	2
51	Recommendations and Protocols for the Use of the Isotope Ratio Infrared Spectrometer (Delta Ray) to Measure Stable Isotopes from CO₂: An Application to Volcanic Emissions at Mount Etna and Stromboli (Sicily, Italy). Geofluids, 2020, 2020, 1-21.	0.7	1
52	Chemical variability in volcanic gas plumes and fumaroles along the East African Rift System: New insights from the Western Branch. Chemical Geology, 2022, 596, 120811.	3.3	1