

# Marco Laiolo

## List of Publications by Year in descending order

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45  
papers

1,399  
citations

331538

21  
h-index

345118

36  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1373  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced volcanic hot-spot detection using MODIS IR data: results from the MIROVA system. Geological Society Special Publication, 2016, 426, 181-205.	0.8	121
2	Complex hazard cascade culminating in the Anak Krakatau sector collapse. Nature Communications, 2019, 10, 4339.	5.8	105
3	Towards Global Volcano Monitoring Using Multisensor Sentinel Missions and Artificial Intelligence: The MOUNTS Monitoring System. Remote Sensing, 2019, 11, 1528.	1.8	97
4	Radon surveys and real-time monitoring at Stromboli volcano: Influence of soil temperature, atmospheric pressure and tidal forces on <sup>222</sup> Rn degassing. Journal of Volcanology and Geothermal Research, 2009, 184, 381-388.	0.8	78
5	Rheological control on the radiant density of active lava flows and domes. Journal of Volcanology and Geothermal Research, 2013, 249, 39-48.	0.8	75
6	Earthquake-volcano interactions detected from radon degassing at Stromboli (Italy). Earth and Planetary Science Letters, 2007, 257, 511-525.	1.8	58
7	Radiative heat power at Stromboli volcano during 2000-2011: Twelve years of MODIS observations. Journal of Volcanology and Geothermal Research, 2012, 215-216, 48-60.	0.8	53
8	Tracking Formation of a Lava Lake From Ground and Space: Masaya Volcano (Nicaragua), 2014-2017. Geochemistry, Geophysics, Geosystems, 2018, 19, 496-515.	1.0	52
9	Thermal Remote Sensing for Global Volcano Monitoring: Experiences From the MIROVA System. Frontiers in Earth Science, 2020, 7, .	0.8	52
10	Space- and Ground-Based Geophysical Data Tracking of Magma Migration in Shallow Feeding System of Mount Etna Volcano. Remote Sensing, 2019, 11, 1182.	1.8	44
11	Tracking dynamics of magma migration in open-conduit systems. Bulletin of Volcanology, 2016, 78, 1.	1.1	42
12	Modelling satellite-derived magma discharge to explain caldera collapse. Geology, 2017, 45, 523-526.	2.0	42
13	Tracking precursors and degassing by radon monitoring during major eruptions at Stromboli Volcano (Aeolian Islands, Italy). Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	39
14	Mafic and ultramafic xenoliths in San Bartolo lava field: New insights on the ascent and storage of Stromboli magmas. Bulletin of Volcanology, 2006, 68, 653-670.	1.1	39
15	Forecasting Effusive Dynamics and Decompression Rates by Magmastatic Model at Open-vent Volcanoes. Scientific Reports, 2017, 7, 3885.	1.6	38
16	Developments in real-time radon monitoring at Stromboli volcano. Journal of Environmental Radioactivity, 2012, 105, 21-29.	0.9	28
17	Birth of a lava lake: Nyamulagira volcano 2011-2015. Bulletin of Volcanology, 2016, 78, 1.	1.1	28
18	Ground deformation reveals the scale-invariant conduit dynamics driving explosive basaltic eruptions. Nature Communications, 2021, 12, 1683.	5.8	26

#	ARTICLE	IF	CITATIONS
19	Volcanic Hot-Spot Detection Using SENTINEL-2: A Comparison with MODISâ€™MIROVA Thermal Data Series. <i>Remote Sensing</i> , 2020, 12, 820.	1.8	25
20	Volcanic CO <sub>2</sub> tracks the incubation period of basaltic paroxysms. <i>Science Advances</i> , 2021, 7, eabh0191.	4.7	25
21	The effects of environmental parameters on diffuse degassing at Stromboli volcano: Insights from joint monitoring of soil CO <sub>2</sub> flux and radon activity. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 315, 65-78.	0.8	23
22	Evidences of volcanic unrest on high-temperature fumaroles by satellite thermal monitoring: The case of Santa Ana volcano, El Salvador. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 340, 170-179.	0.8	23
23	Magma extrusion during the Ubinas 2013â€™2014 eruptive crisis based on satellite thermal imaging (MIROVA) and ground-based monitoring. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 302, 199-210.	0.8	21
24	Long-term eruptive trends from space-based thermal and SO <sub>2</sub> emissions: a comparative analysis of Stromboli, Batu Tara and Tinakula volcanoes. <i>Bulletin of Volcanology</i> , 2018, 80, 1.	1.1	20
25	Radon mapping, automatic measurements and extremely high <sup>222</sup> Rn emissions during the 2002â€™2007 eruptive scenarios at Stromboli volcano. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 264, 49-65.	0.8	19
26	The thermal signature of Aso Volcano during unrest episodes detected from space and ground-based measurements. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	19
27	Probing Stromboli volcano from the mantle to paroxysmal eruptions. <i>Geological Society Special Publication</i> , 2008, 304, 33-70.	0.8	18
28	Fifteen years of thermal activity at Vanuatu's volcanoes (2000â€™2015) revealed by MIROVA. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 322, 6-19.	0.8	18
29	Monitoring endogenous growth of open-vent volcanoes by balancing thermal and SO <sub>2</sub> emissions data derived from space. <i>Scientific Reports</i> , 2019, 9, 9394.	1.6	18
30	The 2008 â€™silentâ€™ eruption of Nevados de Chill�n (Chile) detected from space: Effusive rates and trends from the MIROVA system. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 327, 322-329.	0.8	17
31	The LVD signals during the early-mid stages of the L'Aquila seismic sequence and the radon signature of some aftershocks of moderate magnitude. <i>Journal of Environmental Radioactivity</i> , 2015, 139, 56-65.	0.9	15
32	Shallow magma convection evidenced by excess degassing and thermal radiation during the dome-forming Sabancaya eruption (2012â€™2020). <i>Bulletin of Volcanology</i> , 2022, 84, 1.	1.1	15
33	Endogenous and nonimpact origin of the Arkenu circular structures (alâ€™Kufrah basinâ€™SE Libya). <i>Meteoritics and Planetary Science</i> , 2012, 47, 1772-1788.	0.7	14
34	Preliminary radon measurements at Villarrica volcano, Chile. <i>Journal of South American Earth Sciences</i> , 2013, 46, 1-8.	0.6	14
35	Measuring effusion rates of obsidian lava flows by means of satellite thermal data. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 347, 82-90.	0.8	13
36	Thermal remote sensing reveals communication between volcanoes of the Klyuchevskoy Volcanic Group. <i>Scientific Reports</i> , 2021, 11, 13090.	1.6	13

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37	Monitoring the time-averaged discharge rates, volumes and emplacement style of large lava flows by using MIROVA system: the case of the 2014-2015 eruption at Holuhraun (Iceland). <i>Annals of Geophysics</i> , 2019, 61, .	0.5	13
38	Hot-spot detection and characterization of strombolian activity from MODIS infrared data. <i>International Journal of Remote Sensing</i> , 2014, 35, 3403-3426.	1.3	12
39	The Transition from MODIS to VIIRS for Global Volcano Thermal Monitoring. <i>Sensors</i> , 2022, 22, 1713.	2.1	7
40	Revisiting the last major eruptions at Stromboli volcano: inferences on the role of volatiles during magma storage and decompression. <i>Geological Society Special Publication</i> , 2015, 410, 143-177.	0.8	5
41	Radon surveys and monitoring at active volcanoes: learning from Vesuvius, Stromboli, La Soufrière and Villarrica. <i>Geological Society Special Publication</i> , 2018, 451, 183-208.	0.8	5
42	Geological, petrological and geochemical framework of Miravalles-Guayabo caldera and related lavas, NW Costa Rica. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 358, 207-227.	0.8	3
43	Monitoring radon emission anomalies at Stromboli Island as a tracer of eruptive events and near field earthquakes. <i>EPJ Web of Conferences</i> , 2012, 24, 05002.	0.1	1
44	Insights on radon survey at the Stromboli volcano. <i>EPJ Web of Conferences</i> , 2012, 24, 05007.	0.1	1
45	Improvements in real time <sup>222</sup> Rn monitoring at Stromboli volcano. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 718, 145-147.	0.7	1