

# Giuseppe G Salerno

## List of Publications by Year in descending order

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69  
papers

2,534  
citations

186209

28  
h-index

206029

48  
g-index

90  
all docs

90  
docs citations

90  
times ranked

1761  
citing authors

#	ARTICLE	IF	CITATIONS
1	A multi-disciplinary study of the 2002-2003 Etna eruption: insights into a complex plumbing system. <i>Bulletin of Volcanology</i> , 2005, 67, 314-330.	1.1	271
2	Etna 2004-2005: An archetype for geodynamically-controlled effusive eruptions. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	120
3	Three-years of SO <sub>2</sub> flux measurements of Mt. Etna using an automated UV scanner array: Comparison with conventional traverses and uncertainties in flux retrieval. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 183, 76-83.	0.8	120
4	Effusive to explosive transition during the 2003 eruption of Stromboli volcano. <i>Geology</i> , 2005, 33, 341.	2.0	119
5	Total volatile flux from Mount Etna. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	112
6	SO <sub>2</sub> flux from Stromboli during the 2007 eruption: Results from the FLAME network and traverse measurements. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 182, 214-220.	0.8	109
7	Insights into magma and fluid transfer at Mount Etna by a multiparametric approach: A model of the events leading to the 2011 eruptive cycle. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 3519-3539.	1.4	108
8	Unusually large magmatic CO <sub>2</sub> gas emissions prior to a basaltic paroxysm. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	95
9	Monitoring the December 2015 summit eruptions of Mt. Etna (Italy): Implications on eruptive dynamics. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 341, 53-69.	0.8	83
10	An unloading foam model to constrain Etna's 11-13 January 2011 lava fountaining episode. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	72
11	A total volatile inventory for Masaya Volcano, Nicaragua. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	65
12	Sulphur dioxide fluxes from Mount Etna, Vulcano, and Stromboli measured with an automated scanning ultraviolet spectrometer. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	61
13	Novel retrieval of volcanic SO <sub>2</sub> abundance from ultraviolet spectra. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 181, 141-153.	0.8	58
14	First observational evidence for the CO <sub>2</sub> -driven origin of Stromboli's major explosions. <i>Solid Earth</i> , 2011, 2, 135-142.	1.2	56
15	Evolution of CO <sub>2</sub> , SO <sub>2</sub> , HCl, and HNO <sub>3</sub> in the volcanic plumes from Etna. <i>Geophysical Research Letters</i> , 2014, 41, 2196-2203.	1.5	53
16	Dynamics of a lava fountain revealed by geophysical, geochemical and thermal satellite measurements: The case of the 10 April 2011 Mt Etna eruption. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	51
17	Gas and aerosol emissions from Villarrica volcano, Chile. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 203, 62-75.	0.8	51
18	Unravelling the processes controlling gas emissions from the central and northeast craters of Mt. Etna. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 198, 368-376.	0.8	50

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19	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.	1.1	50
20	A comprehensive interpretative model of slow slip events on Mt. Etna's eastern flank. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 635-658.	1.0	48
21	Measuring volcanic degassing of SO <sub>2</sub> in the lower troposphere with ASTER band ratios. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 194, 42-54.	0.8	47
22	Reconstruction of SO <sub>2</sub> flux emission chronology from space-based measurements. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 206, 80-87.	0.8	43
23	Multiparametric study of the February–April 2013 paroxysmal phase of Mount Etna. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 1932-1949.	1.0	41
24	The VEI 2 Christmas 2018 Etna Eruption: A Small But Intense Eruptive Event or the Starting Phase of a Larger One?. <i>Remote Sensing</i> , 2020, 12, 905.	1.8	36
25	Continuous soil CO <sub>2</sub> and discrete plume SO <sub>2</sub> measurements at Mt. Etna (Italy) during 1997–2000: a contribution to volcano monitoring. <i>Bulletin of Volcanology</i> , 2004, 66, 80-89.	1.1	35
26	The impact of Mount Etna sulfur emissions on the atmospheric composition and aerosol properties in the central Mediterranean: A statistical analysis over the period 2000–2013 based on observations and Lagrangian modelling. <i>Atmospheric Environment</i> , 2017, 148, 77-88.	1.9	35
27	TROPOMI enables high resolution SO <sub>2</sub> flux observations from Mt. Etna, Italy, and beyond. <i>Scientific Reports</i> , 2019, 9, 957.	1.6	34
28	Synergistic use of Lagrangian dispersion and radiative transfer modelling with satellite and surface remote sensing measurements for the investigation of volcanic plumes: the Mount Etna eruption of 25–27 October 2013. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 6841-6861.	1.9	31
29	Synoptic analysis of a decade of daily measurements of SO <sub>2</sub> emission in the troposphere from volcanoes of the global ground-based Network for Observation of Volcanic and Atmospheric Change. <i>Earth System Science Data</i> , 2021, 13, 1167-1188.	3.7	31
30	The primary volcanic aerosol emission from Mt Etna: Size-resolved particles with SO <sub>2</sub> and role in plume reactive halogen chemistry. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 222, 74-93.	1.6	29
31	Coupling Between Magmatic Degassing and Volcanic Tremor in Basaltic Volcanism. <i>Frontiers in Earth Science</i> , 2018, 6, .	0.8	29
32	Near Real-Time Monitoring of the Christmas 2018 Etna Eruption Using SEVIRI and Products Validation. <i>Remote Sensing</i> , 2020, 12, 1336.	1.8	29
33	Coupled use of COSPEC and satellite measurements to define the volumetric balance during effusive eruptions at Mt. Etna, Italy. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 205, 47-53.	0.8	25
34	SO <sub>2</sub> flux monitoring at Stromboli with the new permanent INGV SO <sub>2</sub> camera system: A comparison with the FLAME network and seismological data. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 300, 95-102.	0.8	24
35	Retrieval and intercomparison of volcanic SO <sub>2</sub> injection height and eruption time from satellite maps and ground-based observations. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 331, 79-91.	0.8	22
36	On the time-scale of thermal cycles associated with open-vent degassing. <i>Bulletin of Volcanology</i> , 2012, 74, 1281-1292.	1.1	21

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37	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.	4.7	20
38	Crater Gas Emissions and the Magma Feeding System of Stromboli Volcano. <i>Geophysical Monograph Series</i> , 0, , 65-80.	0.1	16
39	Emission of gas and atmospheric dispersion of SO <sub>2</sub> during the December 2013 eruption at San Miguel volcano (El Salvador, Central America). <i>Geophysical Research Letters</i> , 2015, 42, 5847-5854.	1.5	16
40	Validation of a novel Multi-Gas sensor for volcanic HCl alongside H <sub>2</sub> S and SO <sub>2</sub> at Mt. Etna. <i>Bulletin of Volcanology</i> , 2017, 79, 36.	1.1	16
41	Small-scale volcanic aerosols variability, processes and direct radiative impact at Mount Etna during the EPL-RADIO campaigns. <i>Scientific Reports</i> , 2020, 10, 15224.	1.6	16
42	“Failed” eruptions revealed by pattern classification analysis of gas emission and volcanic tremor data at Mt. Etna, Italy. <i>International Journal of Earth Sciences</i> , 2014, 103, 297-313.	0.9	14
43	Evidence for a recent change in the shallow plumbing system of Mt. Etna (Italy): Gas geochemistry and structural data during 2001–2005. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 251, 90-97.	0.8	12
44	New strategies for vertical transport in chemistry transport models: application to the case of the Mount Etna eruption on 18 March 2012 with CHIMERE v2017r4. <i>Geoscientific Model Development</i> , 2020, 13, 5707-5723.	1.3	11
45	Radon Activity in Volcanic Gases of Mt. Etna by Passive Dosimetry. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB019149.	1.4	10
46	Quantitative Retrieval of Volcanic Sulphate Aerosols from IASI Observations. <i>Remote Sensing</i> , 2021, 13, 1808.	1.8	10
47	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.	1.2	9
48	Quantifying Light Dilution in Ultraviolet Spectroscopic Measurements of Volcanic SO <sub>2</sub> Using Dual-Band Modeling. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	9
49	Mount Etna volcano (Italy) as a major “dust”-point source in the Mediterranean area. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	0.6	8
50	iFit: A simple method for measuring volcanic SO <sub>2</sub> without a measured Fraunhofer reference spectrum. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 402, 107000.	0.8	8
51	EUNADICS-AV early warning system dedicated to supporting aviation in the case of a crisis from natural airborne hazards and radionuclide clouds. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 3367-3405.	1.5	8
52	A novel methodology to determine volcanic aerosols optical properties in the UV and NIR and Ångström parameters using Sun photometry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 9803-9815.	1.2	7
53	Dome-like behaviour at Mt. Etna: The case of the 28 December 2014 South East Crater paroxysm. <i>Scientific Reports</i> , 2017, 7, 5361.	1.6	7
54	A New Degassing Model to Infer Magma Dynamics from Radioactive Disequilibria in Volcanic Plumes. <i>Geosciences (Switzerland)</i> , 2018, 8, 27.	1.0	7

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55	Volcanic Cloud Top Height Estimation Using the Plume Elevation Model Procedure Applied to Orthorectified Landsat 8 Data. Test Case: 26 October 2013 Mt. Etna Eruption. <i>Remote Sensing</i> , 2019, 11, 785.	1.8	7
56	Two Independent Light Dilution Corrections for the SO <sub>2</sub> Camera Retrieve Comparable Emission Rates at Masaya Volcano, Nicaragua. <i>Remote Sensing</i> , 2021, 13, 935.	1.8	7
57	Aerosol Optical Properties of Pacaya Volcano Plume Measured with a Portable Sun-Photometer. <i>Geosciences (Switzerland)</i> , 2018, 8, 36.	1.0	5
58	Volcanic SO <sub>2</sub> by UV-TIR satellite retrievals: validation by using ground-based network at Mt. Etna. <i>Annals of Geophysics</i> , 2015, 57, .	0.5	5
59	K-CM application for supervised pattern recognition at Mt. Etna: an innovative tool to forecast flank eruptive activity. <i>Bulletin of Volcanology</i> , 2019, 81, 1.	1.1	4
60	Photometric Observations of Aerosol Optical Properties and Emission Flux Rates of Stromboli Volcano Plume during the PEACETIME Campaign. <i>Remote Sensing</i> , 2021, 13, 4016.	1.8	4
61	A multidisciplinary strategy for in-situ and remote sensing monitoring of areas affected by pressurized fluids: Application to mud volcanoes: A multidisciplinary environmental monitoring strategy. , 2016, , .		3
62	Infrared Hyperspectral and Ultraviolet Remote Measurements of Volcanic Gas Plume at MT Etna during IMAGETNA Campaign. <i>Remote Sensing</i> , 2019, 11, 1175.	1.8	3
63	The EtnaPlumeLab (EPL) research cluster: advance the understanding of Mt. Etna plume, from source characterisation to downwind impact. <i>Annals of Geophysics</i> , 2017, 60, .	0.5	3
64	Gas Flux Rate and Migration of the Magma Column. <i>Geophysical Monograph Series</i> , 2013, , 259-267.	0.1	2
65	Quantification of ash sedimentation dynamics through depolarisation imaging with AshCam. <i>Scientific Reports</i> , 2018, 8, 15680.	1.6	2
66	2012 hyperspectral airborne campaign on Etna: Multi data acquisition for ASI-PRISMA project. , 2013, , .		1
67	Reply to comment from Liotta and Rizzo on "Evolution of CO <sub>2</sub> , SO <sub>2</sub> , HCl and HNO <sub>3</sub> in the volcanic plumes from Etna" by Voigt et al. [ <i>Geophys. Res. Lett.</i> ; 41, doi:10.1002/2013GL058974]. <i>Bulletin of Volcanology</i> , 2014, 76, 1.	1.1	1
68	Volcanic Plumes: Impacts on the Atmosphere and Insights into Volcanic Processes. <i>Geosciences (Switzerland)</i> , 2018, 8, 158.	1.0	0
69	The Christmas 2018 Etna Eruption: Real Time Monitoring Using Geostationary and Polar Orbit Satellites Systems and Products Validation. , 2019, , .		0