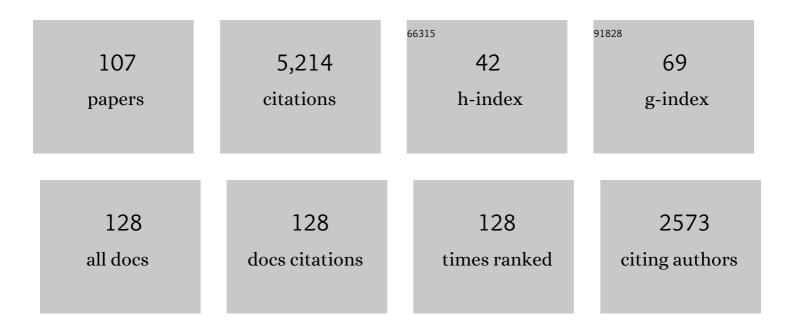
Giovanni Macedonio

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	End-to-end simulations of the MUon RAdiography of VESuvius experiment. Journal of Instrumentation, 2022, 17, C01015.	0.5	2
2	Long-term hazard assessment of explosive eruptions at Jan Mayen (Norway) and implications for air traffic in the North Atlantic. Natural Hazards and Earth System Sciences, 2022, 22, 139-163.	1.5	9
3	Data assimilation of volcanic aerosol observations using FALL3D+PDAF. Atmospheric Chemistry and Physics, 2022, 22, 1773-1792.	1.9	13
4	Changes in the Eruptive Style of Stromboli Volcano before the 2019 Paroxysmal Phase Discovered through SOM Clustering of Seismo-Acoustic Features Compared with Camera Images and GBInSAR Data. Remote Sensing, 2022, 14, 1287.	1.8	5
5	Pre―and Coâ€Eruptive Analysis of the September 2021 Eruption at Cumbre Vieja Volcano (La Palma, Canary) T 49, .	j ETQq1 1 1.5	0.784314 rg 27
6	When the Hydrophone Works as an Accelerometer. Seismological Research Letters, 2021, 92, 365-377.	0.8	6
7	Clustering of Experimental Seismo-Acoustic Events Using Self-Organizing Map (SOM). Frontiers in Earth Science, 2021, 8, .	0.8	8
8	Variable Magnitude and Intensity of Strombolian Explosions: Focus on the Eruptive Processes for a First Classification Scheme for Stromboli Volcano (Italy). Remote Sensing, 2021, 13, 944.	1.8	21
9	Campi Flegrei, Vesuvius and Ischia Seismicity in the Context of the Neapolitan Volcanic Area. Frontiers in Earth Science, 2021, 9, .	0.8	11
10	Reply to "Comment on the paper by Buono et al. "Dynamics of degassing in evolved alkaline magmas: Petrological, experimental and theoretical insights―(Earth Science Reviews, 211 (2020), 103402)― Earth-Science Reviews, 2021, 220, 103654.	4.0	0
11	FALL3D-8.0: a computational model for atmospheric transport and deposition of particles, aerosols and radionuclides – Part 2: Model validation. Geoscientific Model Development, 2021, 14, 409-436.	1.3	21
12	Tracking Episodes of Seismicity and Gas Transport in Campi Flegrei Caldera Through Seismic, Geophysical, and Geochemical Measurements. Seismological Research Letters, 2021, 92, 965-975.	0.8	14
13	Dynamics of degassing in evolved alkaline magmas: Petrological, experimental and theoretical insights. Earth-Science Reviews, 2020, 211, 103402.	4.0	7
14	Four Years of Continuous Seafloor Displacement Measurements in the Campi Flegrei Caldera. Frontiers in Earth Science, 2020, 8, .	0.8	11
15	Overflows and Pyroclastic Density Currents in March-April 2020 at Stromboli Volcano Detected by Remote Sensing and Seismic Monitoring Data. Remote Sensing, 2020, 12, 3010.	1.8	29
16	FALL3D-8.0: a computational model for atmospheric transport and deposition of particles, aerosols and radionuclides – Part 1: Model physics and numerics. Geoscientific Model Development, 2020, 13, 1431-1458.	1.3	38
17	Muon radiography applied to volcanoes imaging: the MURAVES experiment at Mt. Vesuvius. Journal of Instrumentation, 2020, 15, C03014-C03014.	0.5	14
18	Total grain size distribution of components of fallout deposits and implications for magma fragmentation mechanisms: examples from Campi Flegrei caldera (Italy). Bulletin of Volcanology, 2020, 82_1	1.1	12

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19	Continuous radon monitoring during seven years of volcanic unrest at Campi Flegrei caldera (Italy). Scientific Reports, 2020, 10, 9551.	1.6	32
20	Geophysical precursors of the July-August 2019 paroxysmal eruptive phase and their implications for Stromboli volcano (Italy) monitoring. Scientific Reports, 2020, 10, 10296.	1.6	50
21	Insight Into Campi Flegrei Caldera Unrest Through Seismic Tremor Measurements at Pisciarelli Fumarolic Field. Geochemistry, Geophysics, Geosystems, 2019, 20, 5544-5555.	1.0	26
22	Integration of Ground-Based Remote-Sensing and In Situ Multidisciplinary Monitoring Data to Analyze the Eruptive Activity of Stromboli Volcano in 2017–2018. Remote Sensing, 2019, 11, 1813.	1.8	25
23	First muography of Stromboli volcano. Scientific Reports, 2019, 9, 6695.	1.6	56
24	Comment on "The 21 August 2017 MdÂ4.0 Casamicciola Earthquake: First Evidence of Coseismic Normal Surface Faulting at the Ischia Volcanic Island―by Nappi <i>etÂal.</i> (2018). Seismological Research Letters, 2019, 90, 313-315.	0.8	0
25	Volcanoes in Italy and the role of muon radiography. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180050.	1.6	11
26	Thermal Energy Release Measurement with Thermal Camera: The Case of La Solfatara Volcano (Italy). Remote Sensing, 2019, 11, 167.	1.8	8
27	Measurement of Seafloor Deformation in the Marine Sector of the Campi Flegrei Caldera (Italy). Journal of Geophysical Research: Solid Earth, 2018, 123, 66-83.	1.4	25
28	The 21 August 2017 Ischia (Italy) Earthquake Source Model Inferred From Seismological, GPS, and DInSAR Measurements. Geophysical Research Letters, 2018, 45, 2193-2202.	1.5	59
29	Sensitivity test and ensemble hazard assessment for tephra fallout at Campi Flegrei, Italy. Journal of Volcanology and Geothermal Research, 2018, 351, 1-28.	0.8	24
30	The MURAVES project and other parallel activities on muon absorption radiography. EPJ Web of Conferences, 2018, 182, 02015.	0.1	6
31	A Physical Model of Sill Expansion to Explain the Dynamics of Unrest at Calderas with Application to Campi Flegrei. Frontiers in Earth Science, 2017, 5, .	0.8	21
32	The MURAVES muon telescope: technology and expected performances. Annals of Geophysics, 2017, 60, .	0.5	26
33	Conclusion: recommendations and findings of the RED SEED working group. Geological Society Special Publication, 2016, 426, 567-648.	0.8	12
34	FPLUME-1.0: An integral volcanic plume model accounting for ash aggregation. Geoscientific Model Development, 2016, 9, 431-450.	1.3	67
35	Beyond eruptive scenarios: assessing tephra fallout hazard from Neapolitan volcanoes. Scientific Reports, 2016, 6, 24271.	1.6	47
36	MeMoVolc report on classification and dynamics of volcanic explosive eruptions. Bulletin of Volcanology, 2016, 78, 1.	1.1	31

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37	Insight into Vent Opening Probability in Volcanic Calderas in the Light of a Sill Intrusion Model. Pure and Applied Geophysics, 2016, 173, 1703-1720.	0.8	12
38	Uncertainties in volcanic plume modeling: A parametric study using FPLUME. Journal of Volcanology and Geothermal Research, 2016, 326, 92-102.	0.8	13
39	Effects of eruption source parameter variation and meteorological dataset on tephra fallout hazard assessment: example from Vesuvius (Italy). Journal of Applied Volcanology, 2016, 5, .	0.7	30
40	Results of the eruptive column model inter-comparison study. Journal of Volcanology and Geothermal Research, 2016, 326, 2-25.	0.8	114
41	Magma injection beneath the urban area of Naples: a new mechanism for the 2012–2013 volcanic unrest at Campi Flegrei caldera. Scientific Reports, 2015, 5, 13100.	1.6	115
42	Tephra fall hazard for the Neapolitan area. , 2015, , 239-248.		5
43	The magnitude and impact of the Youngest Toba Tuff super-eruption. Frontiers in Earth Science, 2014, 2,	0.8	68
44	Volcanic ash hazard in the Central Mediterranean assessed from geological data. Bulletin of Volcanology, 2014, 76, 1.	1.1	30
45	The MU-RAY project: detector technology and first data from Mt. Vesuvius. Journal of Instrumentation, 2014, 9, C02029-C02029.	0.5	46
46	Probabilistic shortâ€ŧerm volcanic hazard in phases of unrest: A case study for tephra fallout. Journal of Geophysical Research: Solid Earth, 2014, 119, 8805-8826.	1.4	42
47	Sill intrusion as a source mechanism of unrest at volcanic calderas. Journal of Geophysical Research: Solid Earth, 2014, 119, 3986-4000.	1.4	45
48	The MU-RAY detector for muon radiography of volcanoes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 732, 423-426.	0.7	29
49	Carbon dioxide in the urban area of Naples: Contribution and effects of the volcanic source. Journal of Volcanology and Geothermal Research, 2013, 260, 52-61.	0.8	22
50	Densityâ€driven transport in the umbrella region of volcanic clouds: Implications for tephra dispersion models. Geophysical Research Letters, 2013, 40, 4823-4827.	1.5	79
51	TITAN2D Simulations of Pyroclastic Flows from Small Scale Eruption at Mt. Baekdusan. Journal of the Korean Earth Science Society, 2013, 34, 615-625.	0.0	5
52	Brief Communication "Rain effect on the load of tephra deposits". Natural Hazards and Earth System Sciences, 2012, 12, 1229-1233.	1.5	37
53	Quantifying volcanic ash dispersal and impact of the Campanian Ignimbrite superâ€eruption. Geophysical Research Letters, 2012, 39, .	1.5	125
54	Numerical simulation of tephra transport and deposition of the 1982 El Chichón eruption and implications for hazard assessment. Journal of Volcanology and Geothermal Research, 2012, 231-232, 39-49.	0.8	23

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55	Tephra fallout hazard assessment for a Plinian eruption scenario at Volcán de Colima (Mexico). Journal of Volcanology and Geothermal Research, 2011, 203, 12-22.	0.8	36
56	Numerical inversion and analysis of tephra fallout deposits from the 472AD sub-Plinian eruption at Vesuvius (Italy) through a new best-fit procedure. Journal of Volcanology and Geothermal Research, 2010, 189, 238-246.	0.8	34
57	The MU-RAY project: Summary of the round-table discussions. Earth, Planets and Space, 2010, 62, 145-151.	0.9	5
58	Motivations for muon radiography of active volcanoes. Earth, Planets and Space, 2010, 62, 139-143.	0.9	3
59	A model for wet aggregation of ash particles in volcanic plumes and clouds: 1. Theoretical formulation. Journal of Geophysical Research, 2010, 115, .	3.3	92
60	A model for wet aggregation of ash particles in volcanic plumes and clouds: 2. Model application. Journal of Geophysical Research, 2010, 115, .	3.3	84
61	FALL3D: A computational model for transport and deposition of volcanic ash. Computers and Geosciences, 2009, 35, 1334-1342.	2.0	153
62	Tephra fallout hazard assessment at the Campi Flegrei caldera (Italy). Bulletin of Volcanology, 2009, 71, 259-273.	1.1	117
63	Effects of wall-rock elasticity on magma flow in dykes during explosive eruptions. Earth and Planetary Science Letters, 2009, 288, 455-462.	1.8	47
64	Numerical model of gas dispersion emitted from volcanic sources. Annals of Geophysics, 2009, 48, .	0.5	4
65	An automatic procedure to forecast tephra fallout. Journal of Volcanology and Geothermal Research, 2008, 177, 767-777.	0.8	36
66	Developing an Event Tree for probabilistic hazard and risk assessment at Vesuvius. Journal of Volcanology and Geothermal Research, 2008, 178, 397-415.	0.8	179
67	Ash fallout scenarios at Vesuvius: Numerical simulations and implications for hazard assessment. Journal of Volcanology and Geothermal Research, 2008, 178, 366-377.	0.8	93
68	A three-dimensional Eulerian model for transport and deposition of volcanic ashes. Earth and Planetary Science Letters, 2006, 241, 634-647.	1.8	196
69	Ã^ VIVO: Virtual eruptions at Vesuvius; A multimedia tool to illustrate numerical modeling to a general public. Journal of Volcanology and Geothermal Research, 2006, 155, 323-328.	0.8	2
70	Computational modeling of lava flows: A review. , 2005, , .		11
71	High performance computing simulations of pyroclastic flows. Computer Physics Communications, 2005, 169, 454-456.	3.0	3
72	A computer model for volcanic ash fallout and assessment of subsequent hazard. Computers and Geosciences, 2005, 31, 837-845.	2.0	112

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73	A model for the numerical simulation of tephra fall deposits. Journal of Volcanology and Geothermal Research, 2005, 140, 273-294.	0.8	144
74	Temporal evolution of flow conditions in sustained magmatic explosive eruptions. Journal of Volcanology and Geothermal Research, 2005, 143, 153-172.	0.8	30
75	Viscous heating effects in fluids with temperature-dependent viscosity: triggering of secondary flows. Journal of Fluid Mechanics, 2005, 540, 21.	1.4	58
76	Numerical simulation of lava flows based on depth-averaged equations. Geophysical Research Letters, 2005, 32, .	1.5	54
77	Monitoring and modelling hydrothermal fluid emission at La Solfatara (Phlegrean Fields, Italy). An interdisciplinary approach to the study of diffuse degassing. Journal of Volcanology and Geothermal Research, 2003, 125, 57-79.	0.8	100
78	Multiparticle simulation of collapsing volcanic columns and pyroclastic flow. Journal of Geophysical Research, 2003, 108, .	3.3	153
79	Assessing pyroclastic fall hazard through field data and numerical simulations: Example from Vesuvius. Journal of Geophysical Research, 2003, 108, .	3.3	107
80	Magma degassing as a trigger of bradyseismic events: The case of Phlegrean Fields (Italy). Geophysical Research Letters, 2003, 30, .	1.5	161
81	Viscous heating in fluids with temperature-dependent viscosity: implications for magma flows. Nonlinear Processes in Geophysics, 2003, 10, 545-555.	0.6	83
82	Numerical modelling of tephra fallout associated with dome collapses and Vulcanian explosions: application to hazard assessment on Montserrat. Geological Society Memoir, 2002, 21, 517-537.	0.9	53
83	Computational modelling of the transient dynamics of the August 1997 Vulcanian explosions at Soufrière Hills Volcano, Montserrat: influence of initial conduit conditions on near-vent pyroclastic dispersal. Geological Society Memoir, 2002, 21, 319-348.	0.9	32
84	Nonlinear phenomena in fluids with temperature-dependent viscosity: An hysteresis model for magma flow in conduits. Geophysical Research Letters, 2002, 29, 40-1-40-4.	1.5	56
85	Pyroclastic flow hazard assessment at Vesuvius (Italy) by using numerical modeling. I. Large-scale dynamics. Bulletin of Volcanology, 2002, 64, 155-177.	1.1	72
86	Pyroclastic flow hazard assessment at Vesuvius (Italy) by using numerical modeling. II. Analysis of flow variables. Bulletin of Volcanology, 2002, 64, 178-191.	1.1	65
87	Transient dynamics of vulcanian explosions and column collapse. Nature, 2002, 415, 897-901.	13.7	113
88	Microsommite: crystal chemistry, phase transitions, Ising model and Monte Carlo simulations. Physics and Chemistry of Minerals, 2001, 28, 509-522.	0.3	23
89	Pressure evolution during explosive caldera-forming eruptions. Earth and Planetary Science Letters, 2000, 175, 275-287.	1.8	69
90	Lava flow in a channel with a bifurcation. Physics and Chemistry of the Earth, 1999, 24, 953-956.	0.6	7

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91	The role of water content and magma composition on explosive eruption dynamics. Physics and Chemistry of the Earth, 1999, 24, 969-975.	0.6	6
92	Phreatic explosion hazard assessment by numerical simulation. Physics and Chemistry of the Earth, 1999, 24, 989-995.	0.6	4
93	The role of magma composition and water content in explosive eruptions. Journal of Volcanology and Geothermal Research, 1998, 87, 75-93.	0.8	119
94	The role of magma composition and water content in explosive eruptions: 2. Pyroclastic dispersion dynamics. Journal of Volcanology and Geothermal Research, 1998, 87, 95-115.	0.8	44
95	Physical Modeling of Collapsing Volcanic Columns and Pyroclastic Flows. , 1996, , 389-427.		4
96	Numerical simulation of collapsing volcanic columns with particles of two sizes. Journal of Geophysical Research, 1996, 101, 8153-8174.	3.3	67
97	Erosion processes in volcanic conduits and application to the AD 79 eruption of Vesuvius. Earth and Planetary Science Letters, 1994, 121, 137-152.	1.8	109
98	Numerical simulation of collapsing volcanic columns. Journal of Geophysical Research, 1993, 98, 4231-4259.	3.3	170
99	Volcanic hazard assessment of Guagua Pichincha (Ecuador) based on past behaviour and numerical models. Journal of Volcanology and Geothermal Research, 1992, 49, 53-68.	0.8	31
100	Numerical simulation of some lahars from Mount St. Helens. Journal of Volcanology and Geothermal Research, 1992, 54, 65-80.	0.8	32
101	An algorithm for the triangulation of arbitrarily distributed points: Applications to volume estimate and terrain fitting. Computers and Geosciences, 1991, 17, 859-874.	2.0	40
102	Mapping the tephra fallout risk: an example from Vesuvius, Italy. Nature, 1990, 344, 142-144.	13.7	107
103	Combined effects of wind and column mass distribution on tephra fall deposits. Environmental Software, 1990, 5, 168-176.	0.3	0
104	Renewal of explosive activity at Vesuvius: models for the expected tephra fallout. Journal of Volcanology and Geothermal Research, 1990, 40, 327-342.	0.8	37
105	A numerical model for simulation of tephra transport and deposition: Applications to May 18, 1980, Mount St. Helens eruption. Journal of Geophysical Research, 1988, 93, 6463-6476.	3.3	140
106	A numerical simulation of the Plinian Fall Phase of 79 A.D. eruption of Vesuvius. Journal of Geophysical Research, 1988, 93, 14817-14827.	3.3	77
107	Air Traffic Risk Evaluation In Volcanic Ash Clouds. International Journal of Modelling and Simulation, 1988, 8, 29-32.	2.3	2