

# Massimo N Pompilio

## List of Publications by Year in descending order

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65  
papers

3,512  
citations

159585  
30  
h-index

138484  
58  
g-index

67  
all docs

67  
docs citations

67  
times ranked

2931  
citing authors

#	ARTICLE	IF	CITATIONS
1	Obliquity-paced Pliocene West Antarctic ice sheet oscillations. <i>Nature</i> , 2009, 458, 322-328.	27.8	564
2	A multi-disciplinary study of the 2002-03 Etna eruption: insights into a complex plumbing system. <i>Bulletin of Volcanology</i> , 2005, 67, 314-330.	3.0	271
3	Dynamic plumbing system beneath volcanoes revealed by kinetic modeling, and the connection to monitoring data: An example from Mt. Etna. <i>Earth and Planetary Science Letters</i> , 2011, 308, 11-22.	4.4	165
4	Effects of magma storage and ascent on the kinetics of crystal growth. <i>Contributions To Mineralogy and Petrology</i> , 1994, 115, 402-414.	3.1	164
5	Conduit processes during the July-August 2001 explosive activity of Mt. Etna (Italy): inferences from glass chemistry and crystal size distribution of ash particles. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 137, 33-54.	2.1	159
6	Monitoring the explosive activity of the July-August 2001 eruption of Mt. Etna (Italy) by ash characterization. <i>Geophysical Research Letters</i> , 2002, 29, 71-1-71-4.	4.0	123
7	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
8	Constraints on the Nature and Evolution of the Magma Plumbing System of Mt. Etna Volcano (1991-2008) from a Combined Thermodynamic and Kinetic Modelling of the Compositional Record of Minerals. <i>Journal of Petrology</i> , 2015, 56, 2025-2068.	2.8	97
9	The December 2002-July 2003 effusive event at Stromboli volcano, Italy: Insights into the shallow plumbing system by petrochemical studies. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 155, 263-284.	2.1	96
10	Chapter 14 Stromboli volcano, Aeolian Islands (Italy): present eruptive activity and hazards. <i>Geological Society Memoir</i> , 2013, 37, 473-490.	1.7	91
11	Petrologic evidence of a complex plumbing system feeding the July-August 2001 eruption of Mt. Etna, Sicily, Italy. <i>Bulletin of Volcanology</i> , 2007, 69, 401-421.	3.0	90
12	Violent explosions yield new insights into dynamics of Stromboli volcano. <i>Eos</i> , 1999, 80, 633.	0.1	89
13	Arrival of extremely volatile-rich high-Mg magmas changes explosivity of Mount Etna. <i>Geology</i> , 2007, 35, 255.	4.4	76
14	Petrology and Sr-Nd isotope geochemistry of recent lavas from Mt. Etna: bearing on the volcano feeding system. <i>Journal of Volcanology and Geothermal Research</i> , 1989, 39, 315-327.	2.1	74
15	Magma dynamics during the 2007 Stromboli eruption (Aeolian Islands, Italy): Mineralogical, geochemical and isotopic data. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 182, 255-268.	2.1	74
16	Buoyancy-controlled eruption of magmas at Mt Etna. <i>Terra Nova</i> , 2004, 16, 16-22.	2.1	73
17	Petrology and Geochemistry of Submarine Volcanism in the Sicily Channel Rift. <i>Journal of Geology</i> , 2006, 114, 355-365.	1.4	67
18	Magma dynamics in the shallow plumbing system of Mt. Etna as recorded by compositional variations in volcanics of recent summit activity (1995-1999). <i>Journal of Volcanology and Geothermal Research</i> , 2004, 137, 55-71.	2.1	66

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19	Holocene eruptive history of the Stromboli volcano: Constraints from paleomagnetic dating. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	65
20	Xenopumices from the 2011–2012 submarine eruption of El Hierro (Canary Islands, Spain): Constraints on the plumbing system and magma ascent. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	65
21	Paroxysmal activity at Stromboli: lessons from the past. <i>Bulletin of Volcanology</i> , 2011, 73, 1229-1243.	3.0	61
22	Paleo-environmental and volcano-tectonic evolution of the southeastern flank of Mt. Etna during the last 225 ka inferred from the volcanic succession of the ‘Timpe’, Acireale, Sicily. <i>Journal of Volcanology and Geothermal Research</i> , 2002, 113, 289-306.	2.1	52
23	Geochemical and isotopic monitoring of Mt. Etna 1989–1993 eruptive activity: bearing on the shallow feeding system. <i>Journal of Volcanology and Geothermal Research</i> , 1995, 64, 95-115.	2.1	50
24	Identifying recycled ash in basaltic eruptions. <i>Scientific Reports</i> , 2014, 4, 5851.	3.3	46
25	Magma dynamics within a basaltic conduit revealed by textural and compositional features of erupted ash: the December 2015 Mt. Etna paroxysms. <i>Scientific Reports</i> , 2017, 7, 4805.	3.3	42
26	Ash erupted during normal activity at Stromboli (Aeolian Islands, Italy) raises questions on how the feeding system works. <i>Bulletin of Volcanology</i> , 2011, 73, 471-477.	3.0	41
27	Dynamics of magmas at Mount Etna. <i>Geophysical Monograph Series</i> , 2004, , 91-110.	0.1	37
28	Paleomagnetism of spatter lavas from Stromboli volcano (Aeolian Islands, Italy): Implications for the age of paroxysmal eruptions. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	34
29	Explosive eruption of a picrite: The 3930 BP subplinian eruption of Etna volcano (Italy). <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	34
30	Degassing, crystallization and eruption dynamics at Stromboli: trace element and lithium isotopic evidence from 2003 ashes. <i>Contributions To Mineralogy and Petrology</i> , 2010, 159, 541-561.	3.1	33
31	Pyroclastic density currents at Stromboli volcano (Aeolian Islands, Italy): a case study of the 1930 eruption. <i>Bulletin of Volcanology</i> , 2014, 76, 1.	3.0	32
32	Major explosions and paroxysms at Stromboli (Italy): a new historical catalog and temporal models of occurrence with uncertainty quantification. <i>Scientific Reports</i> , 2020, 10, 17357.	3.3	32
33	From hot rocks to glowing avalanches: Numerical modelling of gravity-induced pyroclastic density currents and hazard maps at the Stromboli volcano (Italy). <i>Geomorphology</i> , 2016, 273, 93-106.	2.6	30
34	Experimental and analytical modeling of basaltic ash explosions at Mount Etna, Italy, 2001. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	27
35	Neogene tectonic and climatic evolution of the Western Ross Sea, Antarctica – Chronology of events from the AND-1B drill hole. <i>Global and Planetary Change</i> , 2012, 96-97, 189-203.	3.5	27
36	Petrography, mineralogy and geochemistry of a primitive pumice from Stromboli: implications for the deep feeding system. <i>European Journal of Mineralogy</i> , 2011, 23, 499-517.	1.3	24

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37	Newly discovered submarine flank eruption at Stromboli volcano (Aeolian Islands, Italy). <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	23
38	The Landslide Sequence Induced by the 2002 Eruption at Stromboli Volcano. , 2005, , 251-258.		23
39	Crystal population density in not stationary volcanic systems: estimate of olivine growth rate in basalts of Lanzarote (Canary Islands). <i>Mineralogy and Petrology</i> , 1991, 44, 181-196.	1.1	22
40	Geochemical heterogeneities and dynamics of magmas within the plumbing system of a persistently active volcano: evidence from Stromboli. <i>Bulletin of Volcanology</i> , 2012, 74, 881-894.	3.0	22
41	Effects of experimental reheating of natural basaltic ash at different temperatures and redox conditions. <i>Contributions To Mineralogy and Petrology</i> , 2013, 165, 863-883.	3.1	22
42	MeMoVolc consensual document: a review of cross-disciplinary approaches to characterizing small explosive magmatic eruptions. <i>Bulletin of Volcanology</i> , 2015, 77, 1.	3.0	22
43	Compositional variation in the 1983 and other recent Etnean lavas: Insights on the shallow feeding system. <i>Bulletin of Volcanology</i> , 1984, 47, 995-1007.	3.0	20
44	Late Pleistocene-Holocene volcanic activity in northern Victoria Land recorded in Ross Sea (Antarctica) marine sediments. <i>Bulletin of Volcanology</i> , 2015, 77, 1.	3.0	20
45	Mafic and ultramafic enclaves in Ustica Island lavas: Inferences on composition of lower crust and deep magmatic processes. <i>Lithos</i> , 2005, 84, 151-167.	1.4	18
46	Pyroclastic density currents at Etna volcano, Italy: The 11 February 2014 case study. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 357, 92-105.	2.1	18
47	Petrological monitoring of active volcanoes: A review of existing procedures to achieve best practices and operative protocols during eruptions. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 419, 107365.	2.1	17
48	Automated evaluation of volumetric grain-size distribution from thin-section images. <i>Computers and Geosciences</i> , 1990, 16, 1067-1084.	4.2	15
49	Chapter 7.3â€fMount Melbourne and Mount Rittmann. <i>Geological Society Memoir</i> , 2021, 55, 741-758.	1.7	12
50	Tracking magma dynamics by laser ablation (LA)-ICPMS trace element analysis of glass in volcanic ash: The 1995 activity of Mt. Etna. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	10
51	Title is missing!. , 2010, 6, 524.		9
52	New insight into the 2011-2012 unrest and eruption of El Hierro Island (Canary Islands) based on integrated geophysical, geodetical and petrological data. <i>Annals of Geophysics</i> , 2015, 58, .	1.0	9
53	Formation of lava stalactites in the master tube of the 1792-1793 flow field, Mt. Etna (Italy). <i>American Mineralogist</i> , 2005, 90, 1413-1421.	1.9	7
54	Magmatic reactivation of the Campi Flegrei volcanic system: insights from the Baiaâ€Fondi di Baia eruption. <i>Bulletin of Volcanology</i> , 2018, 80, 1.	3.0	7

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55	Timescales and mechanisms of paroxysm initiation at Stromboli volcano, Aeolian Islands, Italy. <i>Bulletin of Volcanology</i> , 2022, 84, 1.	3.0	7
56	Refining the Holocene eruptive activity at Tenerife (Canary Islands): The contribution of palaeomagnetism. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 401, 106930.	2.1	6
57	Corrigendum to: "Constraints on the Nature and Evolution of the Magma Plumbing System of Mt. Etna Volcano (1991–2008) from a Combined Thermodynamic and Kinetic Modelling of the Compositional Record of Minerals". <i>Journal of Petrology</i> , 2016, 57, 621-622.	2.8	5
58	Chapter 6.1 of Marine record of Antarctic volcanism from drill cores. <i>Geological Society Memoir</i> , 2021, 55, 631-647.	1.7	5
59	Reconstruction of the subaerial Holocene volcanic activity through paleomagnetic and 14C dating methods: El Hierro (Canary Islands). <i>Journal of Volcanology and Geothermal Research</i> , 2022, 425, 107526.	2.1	5
60	The forgotten eruption: The basaltic scoria cone of Montaña Grande, Tenerife. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 401, 106918.	2.1	3
61	Syn-Eruptive Processes During the January–February 2019 Ash-Rich Emissions Cycle at Mt. Etna (Italy): Implications for Petrological Monitoring of Volcanic Ash. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	3
62	Physical and morphological characterization of the 19 May 2021 ash cloud deposit at Stromboli (Italy). <i>Scientific Reports</i> , 2022, 12, .	3.3	3
63	Alteration of volcanic deposits in the ANDRILL AND-1B core: Influence of paleodeposition, eruptive style, and magmatic composition. , 2013, 9, 275-286.		2
64	Understanding volcanic systems and their dynamics combining field and physical volcanology with petrology studies. , 2021, , 285-328.		1
65	Introduction: The ANDRILL McMurdo Ice Shelf (MIS) and Southern McMurdo Sound (SMS) Drilling Projects. , 2012, 8, 546-547.		0