Antonio Paonita

List of Publications by Year
in descending order

58	2,121	159525 30	243529 44
papers	citations	h-index	g-index

60	60	60	1701
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magmas near the critical degassing pressure drive volcanic unrest towards a critical state. Nature Communications, 2016, 7, 13712.	5.8	144
2	S, Cl and F degassing as an indicator of volcanic dynamics: The 2001 eruption of Mount Etna. Geophysical Research Letters, 2002, 29, 54-1.	1.5	86
3	Genesis of fumarolic emissions as inferred by isotope mass balances: CO 2 and water at Vulcano Island, Italy. Geochimica Et Cosmochimica Acta, 2002, 66, 759-772.	1.6	74
4	Geochemical evidence for mixing between fluids exsolved at different depths in the magmatic system of Mt Etna (Italy). Geochimica Et Cosmochimica Acta, 2012, 84, 380-394.	1.6	73
5	Geochemical modeling of mixing between magmatic and hydrothermal gases: the case of Vulcano Island, Italy. Earth and Planetary Science Letters, 1999, 167, 321-333.	1.8	72
6	Plume chemistry provides insights into mechanisms of sulfur and halogen degassing in basaltic volcanoes. Earth and Planetary Science Letters, 2004, 222, 469-483.	1.8	71
7	The episodic and abrupt geochemical changes at La Fossa fumaroles (Vulcano Island, Italy) and related constraints on the dynamics, structure, and compositions of the magmatic system. Geochimica Et Cosmochimica Acta, 2013, 120, 158-178.	1.6	70
8	Evidence of deep magma degassing and ascent by geochemistry of peripheral gas emissions at Mount Etna (Italy): Assessment of the magmatic reservoir pressure. Journal of Geophysical Research, 2003, 108, .	3.3	68
9	Magmatic degassing of multicomponent vapors and assessment of magma depth: application to Vulcano Island (Italy). Earth and Planetary Science Letters, 2001, 193, 467-481.	1.8	67
10	Elemental and isotope covariation of noble gases in mineral phases from Etnean volcanics erupted during 2001â€“2005, and genetic relation with peripheral gas discharges. Earth and Planetary Science Letters, 2008, 272, 683-690.	1.8	61
11	Geochemical evidences of magma dynamics at Campi Flegrei (Italy). Geochimica Et Cosmochimica Acta, 2014, 132, 1-15.	1.6	59
12	Mount Etna: Geochemical signals of magma ascent and unusually extensive plumbing system. Geophysical Research Letters, 2003, 30, .	1.5	56
13	Changes in fluid geochemistry and physico-chemical conditions of geothermal systems caused by magmatic input: The recent abrupt outgassing off the island of Panarea (Aeolian Islands, Italy). Geochimica Et Cosmochimica Acta, 2005, 69, 3045-3059.	1.6	55
14	Investigation of the noble gas solubility in H2Oâ€“CO2 bearing silicate liquids at moderate pressure II: the extended ionic porosity (EIP) model. Earth and Planetary Science Letters, 2000, 183, 499-512.	1.8	52
15	New insights into magma dynamics during last two eruptions of Mount Etna as inferred by geochemical monitoring from 2002 to 2005. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	1.0	52
16	Noble gas solubilities in silicate melts: New experimental results and a comprehensive model of the effects of liquid composition, temperature and pressure. Chemical Geology, 2010, 279, 145-157.	1.4	52
17	New evidence of mantle heterogeneity beneath the Hyblean Plateau (southeast Sicily, Italy) as inferred from noble gases and geochemistry of ultramafic xenoliths. Lithos, 2012, 132-133, 70-81.	0.6	47
18	Evidence of a recent input of magmatic gases into the quiescent volcanic edifice of Panarea, Aeolian Islands, Italy. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	43

#	Article	IF	Citations
19	Effects of steam-heating processes on a stratified volcanic aquifer: Stable isotopes and dissolved gases in thermal waters of Vulcano Island (Aeolian archipelago). Journal of Volcanology and Geothermal Research, 2010, 192, 178-190.	0.8	43
20	Review of the evolution of geochemical monitoring, networks and methodologies applied to the volcanoes of the Aeolian Arc (Italy). Earth-Science Reviews, 2018, 176, 241-276.	4.0	43
21	Genesis of chlorine and sulphur in fumarolic emissions at Vulcano Island (Italy): assessment of pH and redox conditions in the hydrothermal system. Journal of Volcanology and Geothermal Research, 2002, 116, 137-150.	0.8	40
22	Hydrothermal processes governing the geochemistry of the crater fumaroles at Mount Etna volcano (Italy). Chemical Geology, 2010, 278, 92-104.	1.4	40
23	Chlorine isotope composition of volcanic gases and rocks at Mount Etna (Italy) and inferences on the local mantle source. Earth and Planetary Science Letters, 2013, 371-372, 134-142.	1.8	39
24	A new view of the Heâ€“Arâ€“CO2 degassing at mid-ocean ridges: Homogeneous composition of magmas from the upper mantle. Geochimica Et Cosmochimica Acta, 2007, 71, 1747-1763.	1.6	38
25	A two-component mantle source feeding Mt. Etna magmatism: Insights from the geochemistry of primitive magmas. Lithos, 2014, 184-187, 243-258.	0.6	38
26	Active geodynamics of the central Mediterranean Sea: Tensional tectonic evidences in western Sicily from mantle-derived helium. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	36
27	Multiple hazards and paths to eruptions: A review of the volcanic system of Vulcano (Aeolian Islands,) Tj ETQq1 1 0.784314 rgBT /Ove	4.0	36
28	Realâ€time measurements of the concentration and isotope composition of atmospheric and volcanic CO ₂ at Mount Etna (Italy). Geophysical Research Letters, 2014, 41, 2382-2389.	1.5	33
29	Tornillos at Vulcano: Clues to the dynamics of the hydrothermal system. Journal of Volcanology and Geothermal Research, 2010, 198, 377-393.	0.8	32
30	Revealing magma degassing below closed-conduit active volcanoes: Geochemical features of volcanic rocks versus fumarolic fluids at Vulcano (Aeolian Islands, Italy). Lithos, 2016, 248-251, 272-287.	0.6	31
31	Investigation of the He solubility in H2OÃ¢Â€Â“CO2 bearing silicate liquids at moderate pressure: a new experimental method. Earth and Planetary Science Letters, 2000, 181, 595-604.	1.8	30
32	Sulfur isotopic compositions of fumarolic and plume gases at Mount Etna (Italy) and inferences on their magmatic source. Geochemistry, Geophysics, Geosystems, 2012, 13, .	1.0	29
33	The role of melt composition on aqueous fluid vs. silicate melt partitioning of bromine in magmas. Earth and Planetary Science Letters, 2018, 498, 450-463.	1.8	29
34	Temporal variations of helium isotopes in volcanic gases quantify pre-eruptive refill and pressurization in magma reservoirs: The Mount Etna case. Geology, 2016, 44, 499-502.	2.0	28
35	Response of the shallow aquifer of the volcano-hydrothermal system during the recent crises at Vulcano Island (Aeolian Archipelago, Italy). Journal of Volcanology and Geothermal Research, 2014, 273, 70-80.	0.8	25
36	Integration of Ground-Based Remote-Sensing and In Situ Multidisciplinary Monitoring Data to Analyze the Eruptive Activity of Stromboli Volcano in 2017â€“2018. Remote Sensing, 2019, 11, 1813.	1.8	25

#	Article	IF	Citations
37	Timescales of pre-eruptive magmatic processes at Vulcano (Aeolian Islands, Italy) during the last 1000â€ years. Lithos, 2018, 316-317, 347-365.	0.6	24
38	Magma dynamics at mid-ocean ridges by noble gas kinetic fractionation: Assessment of magmatic ascent rates. Earth and Planetary Science Letters, 2006, 241, 138-158.	1.8	23
39	Geochemical variations of airâ€free crater fumaroles at Mt Etna: New inferences for forecasting shallow volcanic activity. Geophysical Research Letters, 2008, 35, .	1.5	22
40	Massive submarine gas output during the volcanic unrest off Panarea Island (Aeolian arc, Italy): Inferences for explosive conditions. Geochemical Journal, 2005, 39, 459-467.	0.5	22
41	The carbon-isotope signature of ultramafic xenoliths from the Hyblean Plateau (southeast Sicily,) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.0	20
42	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.	4.7	20
43	A new set of standards for inâ€“situ measurement of bromine abundances in natural silicate glasses: Application to SR-XRF, LA-ICP-MS and SIMS techniques. Chemical Geology, 2017, 452, 60-70.	1.4	19
44	Meso- to nano-scale evidence of fluid-assisted co-seismic slip along the normal Mt. Morrone Fault, Italy: Implications for earthquake hydrogeochemical precursors. Earth and Planetary Science Letters, 2021, 568, 117010.	1.8	18
45	Geochemical heterogeneities in magma beneath Mount Etna recorded by 2001â€“2006 melt inclusions. Geochemistry, Geophysics, Geosystems, 2015, 16, 2109-2126.	1.0	17
46	Geochemistry of fluid discharges from Peteroa volcano (Argentina-Chile) in 2010â€“2015: Insights into compositional changes related to the fluid source region(s). Chemical Geology, 2016, 432, 41-53.	1.4	16
47	Melt inclusions track melt evolution and degassing of Etnean magmas in the last 15 ka. Lithos, 2019, 324-325, 716-732.	0.6	14
48	New Insights into the Provenance of the Obsidian Fragments of the Island of Ustica (Palermo, Sicily). Archaeometry, 2017, 59, 435-454.	0.6	13
49	New Insights Into the Recent Magma Dynamics Under Campi Flegrei Caldera (Italy) From Petrological and Geochemical Evidence. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	13
50	Sulphur behaviour and redox conditions in etnean magmas during magma differentiation and degassing. Journal of Petrology, 0, , .	1.1	10
51	Thermodynamics of Multi-component Gasâ€“Melt Equilibrium in Magmas: Theory, Models, and Applications. Reviews in Mineralogy and Geochemistry, 2022, 87, 431-556.	2.2	9
52	Long-range correlation and nonlinearity in geochemical time series of gas discharges from Mt. Etna, and changes with 2001 and 2002â€“2003 eruptions. Nonlinear Processes in Geophysics, 2010, 17, 733-751.	0.6	8
53	Dissolved inert gases (He, Ne and N2) as markers of groundwater flow and degassing areas at Mt Etna volcano (Italy). Chemical Geology, 2016, 443, 10-21.	1.4	8
54	Geochemistry and isotope composition (Sr, Pb, Î´66Zn) of Vulcano fumaroles (Aeolian Islands, Italy). Chemical Geology, 2018, 493, 153-171.	1.4	8

#	Article	IF	Citations
55	A combined study of noble gases, trace elements, and Sr-Nd isotopes for alkaline and tholeiitic lava from the Hyblean Plateau (Italy). Lithos, 2018, 314-315, 59-70.	0.6	6
56	Long-term geochemical monitoring and extensive/compressive phenomena: case study of the Umbria Region (Central Apennines, Italy). Annals of Geophysics, 2009, 48, .	0.5	5
57	Comment on â€œCO2 variability in mid-ocean ridge basalts from syn-emplacement degassing: Constraints on eruption dynamicsâ€•by Soule et al. [Earth Planet. Sci. Lett. (2012) 327â€“328, 39â€“49]. Earth and Planetary Science Letters, 2013, 374, 251-253.	1.8	4
58	A Volcanological Paradox in a Thin-Section: Large Explosive Eruptions of High-Mg Magmas Explained Through a Vein of Silicate Glass in a Serpentinized Peridotite Xenolith (Hyblean Area, Sicily). Geosciences (Switzerland), 2019, 9, 150.	1.0	3