

Antonio Caracausi

List of Publications by Citations

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59
papers

1,235
citations

22
h-index

33
g-index

68
ext. papers

1,491
ext. citations

5.6
avg, IF

4.46
L-index

#	Paper	IF	Citations
59	Methane seeps and mud volcanoes in Italy: Gas origin, fractionation and emission to the atmosphere. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	71
58	Methane emission from the mud volcanoes of Sicily (Italy). <i>Geophysical Research Letters</i> , 2002 , 29, 56-1-56-4	4.9	71
57	Geochemical evidence for mixing between fluids exsolved at different depths in the magmatic system of Mt Etna (Italy). <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 84, 380-394	5.5	61
56	Evidence of deep magma degassing and ascent by geochemistry of peripheral gas emissions at Mount Etna (Italy): Assessment of the magmatic reservoir pressure. <i>Journal of Geophysical Research</i> , 2003 , 108,		60
55	Gas flux to the atmosphere from mud volcanoes in eastern Romania. <i>Terra Nova</i> , 2004 , 16, 179-184	3	53
54	Mount Etna: Geochemical signals of magma ascent and unusually extensive plumbing system. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	52
53	Chondritic xenon in the Earth's mantle. <i>Nature</i> , 2016 , 533, 82-5	50.4	51
52	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). <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 3045-3059	5.5	49
51	New insights into magma dynamics during last two eruptions of Mount Etna as inferred by geochemical monitoring from 2002 to 2005. <i>Geochemistry, Geophysics, Geosystems</i> , 2006 , 7, n/a-n/a	3.6	47
50	Kolumbo submarine volcano (Greece): An active window into the Aegean subduction system. <i>Scientific Reports</i> , 2016 , 6, 28013	4.9	36
49	Hydrothermal processes governing the geochemistry of the crater fumaroles at Mount Etna volcano (Italy). <i>Chemical Geology</i> , 2010 , 278, 92-104	4.2	34
48	Evidence of a recent input of magmatic gases into the quiescent volcanic edifice of Panarea, Aeolian Islands, Italy. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	34
47	Chlorine isotope composition of volcanic gases and rocks at Mount Etna (Italy) and inferences on the local mantle source. <i>Earth and Planetary Science Letters</i> , 2013 , 371-372, 134-142	5.3	31
46	Gas hazard assessment at the Monticchio crater lakes of Mt. Vulture, a volcano in Southern Italy. <i>Terra Nova</i> , 2009 , 21, 83-87	3	29
45	Active geodynamics of the central Mediterranean Sea: Tensional tectonic evidences in western Sicily from mantle-derived helium. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	29
44	Real-time measurements of the concentration and isotope composition of atmospheric and volcanic CO ₂ at Mount Etna (Italy). <i>Geophysical Research Letters</i> , 2014 , 41, 2382-2389	4.9	28
43	Active degassing of mantle-derived fluid: A geochemical study along the Vulture line, southern Apennines (Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2013 , 253, 65-74	2.8	27

42	Radiogenic helium degassing and rock fracturing: A case study of the southern Apennines active tectonic region. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 2200-2211	3.6	24
41	Hydrothermal NN abundances constrain the origins of mantle nitrogen. <i>Nature</i> , 2020 , 580, 367-371	50.4	24
40	Mantle CO ₂ degassing at Mt. Vulture volcano (Italy): Relationship between CO ₂ outgassing of volcanoes and the time of their last eruption. <i>Earth and Planetary Science Letters</i> , 2015 , 411, 268-280	5.3	23
39	Sulfur isotopic compositions of fumarolic and plume gases at Mount Etna (Italy) and inferences on their magmatic source. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13,	3.6	23
38	Crustal-scale fluid circulation and co-seismic shallow comb-veining along the longest normal fault of the central Apennines, Italy. <i>Earth and Planetary Science Letters</i> , 2018 , 498, 152-168	5.3	22
37	Temporal variations of helium isotopes in volcanic gases quantify pre-eruptive refill and pressurization in magma reservoirs: The Mount Etna case. <i>Geology</i> , 2016 , 44, 499-502	5	22
36	Continental degassing of helium in an active tectonic setting (northern Italy): the role of seismicity. <i>Scientific Reports</i> , 2020 , 10, 162	4.9	21
35	Identification of chondritic krypton and xenon in Yellowstone gases and the timing of terrestrial volatile accretion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 13997-14004	11.5	19
34	Groundwaters of Mt. Vulture volcano, southern Italy: Chemistry and sulfur isotope composition of dissolved sulfate. <i>Geochemical Journal</i> , 2010 , 44, 125-135	0.9	19
33	Geochemical variations of air-free crater fumaroles at Mt Etna: New inferences for forecasting shallow volcanic activity. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	19
32	Novel insights into the degassing history of Earth's mantle from high precision noble gas analysis of magmatic gas. <i>Earth and Planetary Science Letters</i> , 2019 , 525, 115766	5.3	17
31	Geochemistry of CO ₂ -Rich Gases Venting From Submarine Volcanism: The Case of Kolumbo (Hellenic Volcanic Arc, Greece). <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	17
30	Fluid geochemistry in a low-enthalpy geothermal field along a sector of southern Apennines chain (Italy). <i>Journal of Geochemical Exploration</i> , 2020 , 219, 106618	3.8	17
29	Outgassing of Mantle Volatiles in Compressional Tectonic Regime Away From Volcanism: The Role of Continental Delamination. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 2007-2020	3.6	15
28	Massive submarine gas output during the volcanic unrest off Panarea Island (Aeolian arc, Italy): Inferences for explosive conditions. <i>Geochemical Journal</i> , 2005 , 39, 459-467	0.9	15
27	Geochemistry of two contrasting deep fluids in the Sardinia microplate (western Mediterranean): Relationships with tectonics and heat sources. <i>Journal of Volcanology and Geothermal Research</i> , 2017 , 336, 108-117	2.8	12
26	Quantification of carbon dioxide emissions of Ciomadul, the youngest volcano of the Carpathian-Pannonian Region (Eastern-Central Europe, Romania). <i>Journal of Volcanology and Geothermal Research</i> , 2017 , 341, 119-130	2.8	12
25	An evaluation of the C/N ratio of the mantle from natural CO ₂ -rich gas analysis: Geochemical and cosmochemical implications. <i>Earth and Planetary Science Letters</i> , 2020 , 551, 116574	5.3	12

24	Long-term (1997-2007) geochemical monitoring of gases from the Umbria-Marche region. <i>Tectonophysics</i> , 2009 , 476, 282-296	3.1	11
23	Neotectonics of the Sea of Galilee (northeast Israel): implication for geodynamics and seismicity along the Dead Sea Fault system. <i>Scientific Reports</i> , 2020 , 10, 11932	4.9	11
22	Reply to comment by A. Kopf on Methane emission from the mud volcanoes of Sicily (Italy) and notice on CH ₄ flux data from European mud volcanoes. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	10
21	Noble Gas and Carbon Isotope Systematics at the Seemingly Inactive Ciomadul Volcano (Eastern-Central Europe, Romania): Evidence for Volcanic Degassing. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 3019-3043	3.6	9
20	Strongly SiO ₂ -undersaturated, CaO-rich kamafugitic Pleistocene magmatism in Central Italy (San Venanzo volcanic complex) and the role of shallow depth limestone assimilation. <i>Earth-Science Reviews</i> , 2020 , 208, 103256	10.2	9
19	Geochemical insight into differences in the physical structures and dynamics of two adjacent maar lakes at Mt. Vulture volcano (southern Italy). <i>Geochemistry, Geophysics, Geosystems</i> , 2013 , 14, 1411-1434	3.6	9
18	Fluid escape structures in the north Sicily continental margin. <i>Marine and Petroleum Geology</i> , 2014 , 55, 202-213	4.7	8
17	New observations in Central Italy of groundwater responses to the worldwide seismicity. <i>Scientific Reports</i> , 2020 , 10, 17850	4.9	8
16	Mantle-Derived Fluids in the East Java Sedimentary Basin, Indonesia. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 7962-7977	3.6	7
15	Mantle-derived fluids discharged at the Bradanic foredeep/Apulian foreland boundary: The Maschito geothermal gas emissions (southern Italy). <i>Marine and Petroleum Geology</i> , 2014 , 55, 309-314	4.7	7
14	Geochemical Monitoring of Cold Waters during Seismicity: Implications for Earthquake-induced Modification in Shallow Aquifers. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2005 , 16, 709	1.8	6
13	Understanding the Origin and Mixing of Deep Fluids in Shallow Aquifers and Possible Implications for Crustal Deformation Studies: San Vittorino Plain, Central Apennines. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1353	2.6	6
12	Active degassing across the Maltese Islands (Mediterranean Sea) and implications for its neotectonics. <i>Marine and Petroleum Geology</i> , 2019 , 104, 361-374	4.7	5
11	The role of trapped fluids during the development and deformation of a carbonate/shale intra-wedge tectonic mélange (Mt. Massico, Southern Apennines, Italy). <i>Journal of Structural Geology</i> , 2020 , 138, 104086	3	5
10	Geochemistry of Fluid Inclusions in Travertines From Western and Northern Turkey: Inferences on the Role of Active Faults in Fluids Circulation. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 5473-5498	3.6	5
9	Deciphering a mantle degassing transect related with India-Asia continental convergence from the perspective of volatile origin and outgassing. <i>Geochimica Et Cosmochimica Acta</i> , 2021 , 310, 61-78	5.5	4
8	Depth influence on the distribution of chemical elements and saturation index of mineral phases in twins maar lakes: The case of the Monticchio lakes (southern Italy). <i>Journal of Geochemical Exploration</i> , 2016 , 163, 10-18	3.8	3
7	An Overview of the Geochemical Characteristics of Oceanic Carbonatites: New Insights from Fuerteventura Carbonatites (Canary Islands). <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 203	2.4	3

6	Long-term geochemical monitoring and extensive/compressive phenomena: case study of the Umbria Region (Central Apennines, Italy). <i>Annals of Geophysics</i> , 2009 , 48,	1.1	2
5	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	14.3	2
4	Active degassing of deeply sourced fluids in central Europe: new evidences from a geochemical study in Serbia. <i>Geochemistry, Geophysics, Geosystems</i> , e2021GC010017	3.6	1
3	Gas Geochemistry at Grande Comore and Mayotte Volcanic Islands (Comoros Archipelago), Indian Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , 2021 , 22, e2021GC009870	3.6	1
2	The pyroclastic breccias from Cabezo Negro de Tallante (SE Spain): Is there any relation with carbonatitic magmatism?. <i>Lithos</i> , 2021 , 392-393, 106140	2.9	0
1	Hydrochemical, isotopic, and dissolved gas characterization of groundwater in Gariz aquifer, Southwest of Yazd Province, central Iran. <i>Journal of Volcanology and Geothermal Research</i> , 2021 , 418, 107324	2.8	