Salvatore Inguaggiato

List of Publications by Year
in descending order

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104 papers	3,790 citations	101543 36 h-index	149698 56 g-index
106 all docs	106 docs citations	106 times ranked	2726 citing authors

#	Article	IF	Citations
1	A simple method for the determination of dissolved gases in natural waters. An application to thermal waters from Vulcano Island.. Applied Geochemistry, 1998, 13, 631-642.	3.0	171
2	Reactive halogen chemistry in volcanic plumes. Journal of Geophysical Research, 2007, 112, .	3.3	144
3	H2S fluxes from Mt. Etna, Stromboli, and Vulcano (Italy) and implications for the sulfur budget at volcanoes. Geochimica Et Cosmochimica Acta, 2005, 69, 1861-1871.	3.9	139
4	Mineral control of arsenic content in thermal waters from volcano-hosted hydrothermal systems: Insights from island of Ischia and Phlegrean Fields (Campanian Volcanic Province, Italy). Chemical Geology, 2006, 229, 313-330.	3.3	121
5	Chemical features and isotopic composition of gaseous manifestations on Vulcano Island, Aeolian Islands, Italy: An interpretative model of fluid circulation. Geochimica Et Cosmochimica Acta, 1997, 61, 3425-3440.	3.9	120
6	Emission of bromine and iodine from Mount Etna volcano. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	116
7	Chemical and isotopical characterisation of fluid manifestations of Ischia Island (Italy). Journal of Volcanology and Geothermal Research, 2000, 99, 151-178.	2.1	108
8	Energetics of chemolithoautotrophy in the hydrothermal system of Vulcano Island, southern Italy. Geobiology, 2003, 1, 37-58.	2.4	105
9	Geochemical precursors of the activity of an open-conduit volcano: The Stromboli 2002-2003 eruptive events. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	100
10	Geochemical evidence for and characterization of CO2 rich gas sources in the epicentral area of the Abruzzo 2009 earthquakes. Earth and Planetary Science Letters, 2011, 304, 389-398.	4.4	99
11	Dissolved helium isotope ratios in ground-waters: a new technique based on gasâ€“water re-equilibration and its application to Stromboli volcanic system. Applied Geochemistry, 2004, 19, 665-673.	3.0	90
12	Chemical and isotopic variations in fumarolic discharge and thermal waters at Vulcano Island (Aeolian Islands, Italy) during 1996: evidence of resumed volcanic activity. Journal of Volcanology and Geothermal Research, 1999, 88, 167-175.	2.1	87
13	CO2 and He degassing at El ChichÃ³n volcano, Chiapas, Mexico: gas flux, origin and relationship with local and regional tectonics. Bulletin of Volcanology, 2011, 73, 423-441.	3.0	81
14	Soil and fumarole gases of Mount Etna: geochemistry and relations with volcanic activity. Journal of Volcanology and Geothermal Research, 1998, 81, 297-310.	2.1	79
15	Real-time measurement of volcanic H2S and SO2concentrations by UV spectroscopy. Geophysical Research Letters, 2003, 30, .	4.0	79
16	Total CO₂ output from Vulcano island (Aeolian Islands, Italy). Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	75
17	Major and trace element geochemistry of neutral and acidic thermal springs at El ChichÃ³n volcano, Mexico. Journal of Volcanology and Geothermal Research, 2008, 178, 224-236.	2.1	73
18	Geochemical monitoring of the 2002â€“2003 eruption at Stromboli volcano (Italy): precursory changes in the carbon and helium isotopic composition of fumarole gases and thermal waters. Bulletin of Volcanology, 2005, 68, 118-134.	3.0	71

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19	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.	3.9	70
20	Geochemical evidence of the renewal of volcanic activity inferred from CO2 soil and SO2 plume fluxes: the 2007 Stromboli eruption (Italy). Bulletin of Volcanology, 2011, 73, 443-456.	3.0	65
21	Geochemistry of H₂â€•and CH₄â€enriched hydrothermal fluids of Socorro Island, Revillagigedo Archipelago, Mexico. Evidence for serpentinization and abiogenic methane. Geofluids, 2010, 10, 542-555.	0.7	62
22	Imaging DOAS for volcanological applications. Bulletin of Volcanology, 2009, 71, 753-765.	3.0	56
23	Hydrogeochemistry and stable isotopes of thermal springs: earthquake-related chemical changes along Belice Fault (Western Sicily). Applied Geochemistry, 2001, 16, 1-17.	3.0	54
24	Preliminary estimate of CO 2 output from Pantelleria Island volcano (Sicily, Italy): evidence of active mantle degassing. Applied Geochemistry, 2001, 16, 883-894.	3.0	54
25	Interaction between the deep fluids and the shallow groundwaters on Vulcano island (Italy). Journal of Volcanology and Geothermal Research, 2001, 108, 187-198.	2.1	54
26	Hydrochemical dynamics of the â€œlakeâ€“springâ€•system in the crater of El ChichÃ³n volcano (Chiapas,) Tj ETQq0 0 0 rgBT /Overlock	2.1	54
27	The 2002-2003 eruption of Stromboli (Italy): Evaluation of the volcanic activity by means of continuous monitoring of soil temperature, CO2flux, and meteorological parameters. Geochemistry, Geophysics, Geosystems, 2004, 5, n/a-n/a.	2.5	53
28	Isotopic, chemical and dissolved gas constraints on spring water from Popocatepetl volcano (Mexico): evidence of gasâ€“water interaction between magmatic component and shallow fluids. Journal of Volcanology and Geothermal Research, 2005, 141, 91-108.	2.1	50
29	CO₂ discharge from the bottom of volcanic Lake Rotomahana, New Zealand. Geochemistry, Geophysics, Geosystems, 2014, 15, 577-588.	2.5	48
30	Geochemistry of rainfall at Stromboli volcano (Aeolian Islands): Isotopic composition and plume-rain interaction. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	43
31	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.	9.1	43
32	Chemical and Isotopic Composition of Waters and Dissolved Gases in Some Thermal Springs of Sicily and Adjacent Volcanic Islands, Italy. Pure and Applied Geophysics, 2006, 163, 781-807.	1.9	42
33	Geochemical evaluation of observed changes in volcanic activity during the 2007 eruption at Stromboli (Italy). Journal of Volcanology and Geothermal Research, 2009, 182, 246-254.	2.1	42
34	The 2014 effusive eruption at Stromboli volcano (Italy): Inferences from soil CO₂ flux and ³He/⁴He ratio in thermal waters. Geophysical Research Letters, 2015, 42, 2235-2243.	4.0	42
35	Sources, size distribution, and downwind grounding of aerosols from Mount Etna. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	41
36	The Other Side of the Coin: Geochemistry of Alkaline Lakes in Volcanic Areas. Advances in Volcanology, 2015, , 219-237.	1.1	38

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37	Total CO2 output from Ischia Island volcano (Italy). Geochemical Journal, 2005, 39, 451-458.	1.0	36
38	CO2 output discharged from Stromboli Island (Italy). Chemical Geology, 2013, 339, 52-60.	3.3	33
39	Influence of volcanic activity on spring water chemistry at Popocatepetl Volcano, Mexico. Chemical Geology, 2002, 190, 207-229.	3.3	32
40	Radon and carbon gas anomalies along the Watukosek Fault System and Lusi mud eruption, Indonesia. Marine and Petroleum Geology, 2018, 90, 77-90.	3.3	32
41	Submarine Hydrothermal Vents of the Aeolian Islands: Relationship Between Microbial Communities and Thermal Fluids. Geomicrobiology Journal, 1999, 16, 105-117.	2.0	31
42	Chemical and isotopic compositions of thermal springs, fumaroles and bubbling gases at TacanÃ¡ Volcano (Mexicoâ€“Guatemala): implications for volcanic surveillance. Bulletin of Volcanology, 2009, 71, 319-335.	3.0	31
43	Synoptic analysis of a decade of daily measurements of SO₂ emission in the troposphere from volcanoes of the global ground-based Network for Observation of Volcanic and Atmospheric Change. Earth System Science Data, 2021, 13, 1167-1188.	9.9	31
44	Accurate measurement of volcanic SO2flux: Determination of plume transport speed and integrated SO2concentration with a single device. Geochemistry, Geophysics, Geosystems, 2005, 6, .	2.5	30
45	Gas Emissions From Volcanoes of the Kuril Island Arc (NW Pacific): Geochemistry and Fluxes. Geochemistry, Geophysics, Geosystems, 2018, 19, 1859-1880.	2.5	30
46	Intercomparison of volcanic gas monitoring methodologies performed on Vulcano Island, Italy. Geophysical Research Letters, 2004, 31, .	4.0	29
47	Long-time variation of soil CO2 fluxes at the summit crater of Vulcano (Italy). Bulletin of Volcanology, 2012, 74, 1859-1863.	3.0	29
48	Dynamic fluid recycling at Laguna Caliente (PoÃ¡s, Costa Rica) before and during the 2006â€“ongoing phreatic eruption cycle (2005â€“10). Geological Society Special Publication, 2017, 437, 73-96.	1.3	26
49	CO 2 flux and chemistry of El ChichÃ³n crater lake (MÃ©xico) in the period 2013â€“2015: Evidence for the enhanced volcano activity. Geophysical Research Letters, 2016, 43, 127-134.	4.0	26
50	Interaction between fumarolic gases and thermal groundwaters at Vulcano Island (Italy): evidences from chemical composition of dissolved gases in waters. Journal of Volcanology and Geothermal Research, 2000, 102, 309-318.	2.1	25
51	Geochemical and isotopic characterization of volcanic and geothermal fluids discharged from the Ecuadorian volcanic arc. Geofluids, 2010, 10, 525-541.	0.7	25
52	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.	4.0	25
53	Chemical evolution of thermal waters and changes in the hydrothermal system of Papandayan volcano (West Java, Indonesia) after the November 2002 eruption. Journal of Volcanology and Geothermal Research, 2008, 178, 276-286.	2.1	23
54	The Extensive Parameters as a Tool to Monitoring the Volcanic Activity: The Case Study of Vulcano Island (Italy). Remote Sensing, 2022, 14, 1283.	4.0	23

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55	Nitrogen isotopes in thermal fluids of a forearc region (Jalisco Block, Mexico): Evidence for heavy nitrogen from continental crust. Geochemistry, Geophysics, Geosystems, 2004, 5, n/a-n/a.	2.5	22
56	Geochemistry of thermal springs and geodynamics of the convergent Mexican Pacific margin. Chemical Geology, 2013, 339, 251-262.	3.3	21
57	The CO 2 flux from hydrothermal systems of the Karymsky volcanic Centre, Kamchatka. Journal of Volcanology and Geothermal Research, 2017, 346, 1-9.	2.1	21
58	Zr, Hf and REE distribution in river water under different ionic strength conditions. Science of the Total Environment, 2018, 645, 837-853.	8.0	21
59	Geochemistry of volcanic gas at the 2012â€“13 New Tolbachik eruption, Kamchatka. Journal of Volcanology and Geothermal Research, 2016, 323, 186-193.	2.1	20
60	Stromboli volcanic activity variations inferred from observations of fluid geochemistry: 16 years of continuous monitoring of soil CO 2 fluxes (2000â€“2015). Chemical Geology, 2017, 469, 69-84.	3.3	20
61	Geochemical and hydrogeological characterization of thermal springs in Western Sicily, Italy. Journal of Volcanology and Geothermal Research, 1998, 84, 125-141.	2.1	19
62	Molecular and isotopic composition of free hydrocarbon gases from Sicily, Italy. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	18
63	Crater Gas Emissions and the Magma Feeding System of Stromboli Volcano. Geophysical Monograph Series, 0, , 65-80.	0.1	16
64	Volcanogenic SO2, a natural pollutant: Measurements, modeling and hazard assessment at Vulcano Island (Aeolian Archipelago, Italy). Environmental Pollution, 2017, 231, 219-228.	7.5	16
65	Meteoric isotopic gradient on the windward side of theSierra Madre Oriental area, Veracruz â€“ Mexico. Geofisica International, 2015, 54, 267-276.	0.2	15
66	Defining the Pre-Eruptive States of Active Volcanoes for Improving Eruption Forecasting. Frontiers in Earth Science, 2022, 10, .	1.8	15
67	The 5 April 2003 Explosion of Stromboli: Timing of Eruption Dynamics Using Thermal Data. Geophysical Monograph Series, 0, , 305-316.	0.1	14
68	Increasing Summit Degassing at the Stromboli Volcano and Relationships with Volcanic Activity (2016â€“2018). Geosciences (Switzerland), 2019, 9, 176.	2.2	14
69	Changes in CO2 Soil Degassing Style as a Possible Precursor to Volcanic Activity: The 2019 Case of Stromboli Paroxysmal Eruptions. Applied Sciences (Switzerland), 2020, 10, 4757.	2.5	14
70	Posteruption chemical evolution of a volcanic caldera lake: Karymsky Lake, Kamchatka. Geophysical Research Letters, 2013, 40, 5142-5146.	4.0	13
71	The hydrothermal system of Cerro MachÃn volcano (Colombia): New magmatic signals observed during 2011â€“2013. Chemical Geology, 2017, 469, 60-68.	3.3	13
72	The hydrothermal system of Mendeleev Volcano, Kunashir Island, Kuril Islands: The geochemistry and the transport of magmatic components. Journal of Volcanology and Seismology, 2017, 11, 335-352.	0.7	13

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73	The Arjuno-Welirang volcanic complex and the connected Lusi system: Geochemical evidences. Marine and Petroleum Geology, 2018, 90, 67-76.	3.3	13
74	Geochemistry of fluids from submarine hot springs at Punta de Mita, Nayarit, Mexico. Journal of Volcanology and Geothermal Research, 2002, 115, 329-338.	2.1	12
75	Contemporary total dissolved gas pressure and soil temperature anomalies recorded at Stromboli volcano (Italy). Geophysical Research Letters, 2007, 34, .	4.0	12
76	Characterization of a UV camera system for SO2 measurements from PopocatÃ©petl Volcano. Journal of Volcanology and Geothermal Research, 2019, 370, 82-94.	2.1	12
77	Development of a portable active long-path differential optical absorption spectroscopy system for volcanic gas measurements. Journal of Sensors and Sensor Systems, 2014, 3, 355-367.	0.9	12
78	Vapour discharges on Nevado del Ruiz during the recent activity: Clues on the composition of the deep hydrothermal system and its effects on thermal springs. Journal of Volcanology and Geothermal Research, 2017, 346, 40-53.	2.1	10
79	Hydrothermal system and acid lakes of Golovnin caldera, Kunashir, Kuril Islands: Geochemistry, solute fluxes and heat output. Journal of Volcanology and Geothermal Research, 2017, 346, 10-20.	2.1	10
80	Volatiles and energy released by PuracÃ© volcano. Bulletin of Volcanology, 2017, 79, 1.	3.0	10
81	The Monitoring of CO2 Soil Degassing as Indicator of Increasing Volcanic Activity: The Paroxysmal Activity at Stromboli Volcano in 2019â€“2021. Geosciences (Switzerland), 2021, 11, 169.	2.2	10
82	Deciphering origins and pathways of low-enthalpy geothermal waters in the unconventional geothermal system of Juchipila graben (Central Mexico). Geothermics, 2021, 94, 102076.	3.4	10
83	Continuous SO2 flux measurements for Vulcano Island, Italy. Annals of Geophysics, 2012, 55, .	1.0	9
84	Carbon dioxide emissions from Specchio di Venere, Pantelleria, Italy. Bulletin of Volcanology, 2016, 78, 1.	3.0	8
85	Heat flux-based strategies for the thermal monitoring of sub-fumarolic areas: Examples from Vulcano and La SoufriÃ¨re de Guadeloupe. Journal of Volcanology and Geothermal Research, 2017, 343, 122-134.	2.1	8
86	Response of a hydrothermal system to escalating phreatic unrest: the case of Turrialba and IrazÃº in Costa Rica (2007â€“2012). Earth, Planets and Space, 2021, 73, .	2.5	8
87	Volcanic and Seismic Activity at Stromboli Preceding the 2002-2003 Flank Eruption. Geophysical Monograph Series, 0, , 93-104.	0.1	7
88	Scientific Community and Civil Protection Synergy During the Stromboli 2002-2003 Eruption. Geophysical Monograph Series, 0, , 387-397.	0.1	6
89	Volcanic Gas Hazard Assessment in the Baia di Levante Area (Vulcano Island, Italy) Inferred by Geochemical Investigation of Passive Fluid Degassing. Geosciences (Switzerland), 2021, 11, 478.	2.2	6
90	Hydrothermal systems of the Karymsky Volcanic Centre, Kamchatka: Geochemistry, time evolution and solute fluxes. Journal of Volcanology and Geothermal Research, 2017, 346, 28-39.	2.1	4

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91	Volcano-hydrothermal system and activity of Sirung volcano (Pantar Island, Indonesia). Journal of Volcanology and Geothermal Research, 2018, 357, 186-199.	2.1	4
92	Hydrogeological and Geochemical Characteristics of the Coastal Aquifer of Stromboli Volcanic Island (Italy). Water (Switzerland), 2021, 13, 417.	2.7	4
93	Dissolved CO2 in natural waters: development of an automated monitoring system and first application to Stromboli volcano (Italy). Annals of Geophysics, 2011, 54, .	1.0	4
94	Geochemistry of volcanic fluids. Bulletin of Volcanology, 2011, 73, 369-371.	3.0	3
95	Fluid Geochemistry of Stromboli. Geophysical Monograph Series, 0, , 49-63.	0.1	3
96	Fluid Geochemistry of TacanÃ¡ Volcano-Hydrothermal System. Active Volcanoes of the World, 2015, , 139-154.	1.4	3
97	Helium isotopes in gases of Mineral Waters in the western Caucasus. Lithology and Mineral Resources, 2011, 46, 495-506.	0.6	2
98	Gas Flux Rate and Migration of the Magma Column. Geophysical Monograph Series, 2013, , 259-267.	0.1	2
99	Variations of Soil Temperature, CO₂Flux, and Meteorological Parameters. Geophysical Monograph Series, 0, , 269-277.	0.1	2
100	Monitoring active volcanoes: The geochemical approach. Annals of Geophysics, 2011, 54, .	1.0	2
101	Geochemical Prediction of the 2002-2003 Stromboli Eruption from Variations in CO₂and Rn Emissions and in Helium and Carbon Isotopes. Geophysical Monograph Series, 0, , 117-128.	0.1	1
102	Possible Micrometeorological Anomalies Induced by Volcanic Activity Recorded at Stromboli Island (Aeolian Archipelago, Italy). Advances in Meteorology, 2015, 2015, 1-7.	1.6	1
103	Decoupling of ground level pressures observed in Italian volcanoes: are they driven by space weather geo-effectiveness?. Annals of Geophysics, 2014, 57, .	1.0	1
104	Reply to the comment by R.M. Prol-Ledesma on â€œGeochemistry of fluids from submarine thermal springs at Punta de Mita, Nayarit, Mexicoâ€• Journal of Volcanology and Geothermal Research, 2003, 121, 319-322.	2.1	0