

Sergio Gurrieri

List of Publications by Year in descending order

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65
papers

3,024
citations

159585

30
h-index

168389

53
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69
all docs

69
docs citations

69
times ranked

2134
citing authors

#	ARTICLE	IF	CITATIONS
1	Wavelet-based filtering and prediction of soil CO ₂ flux: Example from Etna volcano (Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2022, 421, 107421.	2.1	2
2	The first observations of CO ₂ and CO ₂ /SO ₂ degassing variations recorded at Mt. Etna during the 2018 eruptions followed by three strong earthquakes. <i>Italian Journal of Geosciences</i> , 2021, 140, 95-106.	0.8	10
3	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.	10.3	20
4	Volcano Crisis Management at Piton de la Fournaise (La Réunion) during the COVID-19 Lockdown. <i>Seismological Research Letters</i> , 2021, 92, 38-52.	1.9	12
5	The monitoring of natural soil CO ₂ emissions: Issues and perspectives. <i>Earth-Science Reviews</i> , 2019, 198, 102928.	9.1	27
6	Tracking Formation of a Lava Lake From Ground and Space: Masaya Volcano (Nicaragua), 2014–2017. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 496-515.	2.5	52
7	Small-scale spatial variability of soil CO ₂ flux: Implication for monitoring strategy. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 366, 13-26.	2.1	11
8	Investigating the deepest part of a volcano plumbing system: Evidence for an active magma path below the western flank of Piton de la Fournaise (La Réunion Island). <i>Journal of Volcanology and Geothermal Research</i> , 2017, 341, 193-207.	2.1	22
9	New perspectives on volcano monitoring in a tropical environment: Continuous measurements of soil CO ₂ flux at Piton de la Fournaise (La Réunion Island, France). <i>Geophysical Research Letters</i> , 2017, 44, 8244-8253.	4.0	25
10	Temporal variations in air permeability and soil CO ₂ flux in volcanic ash soils (island of Vulcano, I). <i>Journal of Volcanology and Geothermal Research</i> , 2017, 341, 193-207.	2.5	10
11	Asynchronous changes of CO ₂ , H ₂ , and He concentrations in soil gases: A theoretical model and experimental results. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 1565-1583.	3.4	10
12	Pressurization and depressurization phases inside the plumbing system of Mount Etna volcano: Evidence from a multiparametric approach. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 5965-5982.	3.4	36
13	New evidence of CO ₂ soil degassing anomalies on Piton de la Fournaise volcano and the link with volcano tectonic structures. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 4388-4404.	2.5	25
14	Change in magma supply dynamics identified in observations of soil CO ₂ emissions in the summit area of Mt. Etna. <i>Bulletin of Volcanology</i> , 2014, 76, 1.	3.0	9
15	An innovative method for continuous measurement of soil CO ₂ flux. <i>Chemical Geology</i> , 2013, 341, 102-109.	3.3	7
16	Continuous monitoring of hydrogen and carbon dioxide at Mt Etna. <i>Chemical Geology</i> , 2013, 357, 41-51.	3.3	20
17	Insights into magma and fluid transfer at Mount Etna by a multiparametric approach: A model of the events leading to the 2011 eruptive cycle. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 3519-3539.	3.4	108
18	Ten years of soil CO ₂ continuous monitoring on Mt. Etna: Exploring the relationship between processes of soil degassing and volcanic activity. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2886-2899.	2.5	42

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19	Magma-ascent processes during 2005–2009 at Mt Etna inferred by soil CO ₂ emissions in peripheral areas of the volcano. <i>Chemical Geology</i> , 2012, 330-331, 218-227.	3.3	31
20	Stress-induced temperature variations in groundwater of the Monferrato area (northwestern Italy). <i>Geofluids</i> , 2012, 12, 142-149.	0.7	8
21	Long-term record of CO ₂ degassing along Mt. Etna's flanks and its relationship with magma dynamics and eastern flank instability. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	20
22	Long-term continuous monitoring of the dissolved CO ₂ performed by using a new device in groundwater of the Mt. Etna (southern Italy). <i>Water Research</i> , 2011, 45, 3005-3011.	11.3	15
23	First observational evidence for the CO ₂ -driven origin of Stromboli's major explosions. <i>Solid Earth</i> , 2011, 2, 135-142.	2.8	56
24	Relationship between soil CO ₂ flux and volcanic tremor at Mt. Etna: Implications for magma dynamics. <i>Environmental Earth Sciences</i> , 2010, 61, 477-489.	2.7	21
25	Patterns in the recent 2007–2008 activity of Mount Etna volcano investigated by integrated geophysical and geochemical observations. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	88
26	The 2007 eruption of Stromboli volcano: Insights from real-time measurement of the volcanic gas plume CO ₂ /SO ₂ ratio. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 182, 221-230.	2.1	155
27	Effects of soil gas permeability and recirculation flux on soil CO ₂ flux measurements performed using a closed dynamic accumulation chamber. <i>Chemical Geology</i> , 2009, 265, 387-393.	3.3	21
28	Using pressure transients within a polymeric membrane for gas composition measurements. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	2
29	Unmanned aerial vehicle measurements of volcanic carbon dioxide fluxes. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	142
30	Continuous monitoring of soil CO ₂ flux on Mt. Etna: The 2004–2005 eruption and the role of regional tectonics and volcano tectonics. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	22
31	Variation of H ₂ O/CO ₂ and CO ₂ /SO ₂ ratios of volcanic gases discharged by continuous degassing of Mount Etna volcano, Italy. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	74
32	Crustal dynamics of Mount Vesuvius from 1998 to 2005: Effects on seismicity and fluid circulation. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	19
33	Inverse and forward modelling of groundwater circulation in a seismically active area (Monferrato,) <i>Tj ETQq1 1 0.784314 rgBT /Overlook</i> 2008, 248, 14-39.	3.3	20
34	Total volatile flux from Mount Etna. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	112
35	Forecasting Etna eruptions by real-time observation of volcanic gas composition. <i>Geology</i> , 2007, 35, 1115.	4.4	270
36	Evaluation of carbon isotope fractionation of soil CO ₂ under an advective–diffusive regimen: A tool for computing the isotopic composition of unfractionated deep source. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3016-3027.	3.9	64

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37	Temporal Changes in Fluid Chemistry and Energy Profiles in the Vulcano Island Hydrothermal System. <i>Astrobiology</i> , 2007, 7, 905-932.	3.0	27
38	Contemporary total dissolved gas pressure and soil temperature anomalies recorded at Stromboli volcano (Italy). <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	12
39	Hydrologic and geochemical survey of the lake "Specchio di Venere" (Pantelleria island, Southern Italy). <i>Journal of Hydrology</i> , 2007, 337, 1-17.	1.2	17
40	CO ₂ flux measurements in volcanic areas using the dynamic concentration method: Influence of soil permeability. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	47
41	Rates of carbon dioxide plume degassing from Mount Etna volcano. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	86
42	Hydrothermal buffering of the SO ₂ /H ₂ S ratio in volcanic gases: Evidence from La Fossa Crater fumarolic field, Vulcano Island. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	29
43	Fault-controlled Soil CO ₂ Degassing and Shallow Magma Bodies: Summit and Lower East Rift of Kilauea Volcano (Hawaii), 1997. <i>Pure and Applied Geophysics</i> , 2006, 163, 853-867.	1.9	21
44	In situ Permeability Measurements Based on a Radial Gas Advection Model: Relationships Between Soil Permeability and Diffuse CO ₂ Degassing in Volcanic Areas. <i>Pure and Applied Geophysics</i> , 2006, 163, 897-914.	1.9	18
45	Trace metal modeling of groundwater "gas" rock interactions in a volcanic aquifer: Mount Vesuvius, Southern Italy. <i>Chemical Geology</i> , 2005, 216, 289-311.	3.3	62
46	Microbial communities near the oxic/anoxic interface in the hydrothermal system of Vulcano Island, Italy. <i>Chemical Geology</i> , 2005, 224, 169-182.	3.3	41
47	A PTFE membrane for the in situ extraction of dissolved gases in natural waters: Theory and applications. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	10
48	Emission of bromine and iodine from Mount Etna volcano. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	116
49	Chemical mapping of a fumarolic field: La Fossa Crater, Vulcano Island (Aeolian Islands, Italy). <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	160
50	Diffuse degassing of carbon dioxide at Somma "Vesuvius volcanic complex (Southern Italy) and its relation with regional tectonics. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 133, 55-79.	2.1	38
51	Geochemical monitoring of groundwaters (1998 "2001) at Vesuvius volcano (Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2004, 133, 81-104.	2.1	41
52	Plume chemistry provides insights into mechanisms of sulfur and halogen degassing in basaltic volcanoes. <i>Earth and Planetary Science Letters</i> , 2004, 222, 469-483.	4.4	71
53	Energetics of chemolithoautotrophy in the hydrothermal system of Vulcano Island, southern Italy. <i>Geobiology</i> , 2003, 1, 37-58.	2.4	105
54	Relationships between diffuse CO ₂ emissions and volcanic activity on the island of Vulcano (Aeolian) Tj ETQq0 0 0,rgBT /Overlock 10 Tf	3.0	77

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55	Tectonic control over large-scale diffuse degassing in eastern Sicily (Italy). <i>Geofluids</i> , 2002, 2, 273-284.	0.7	30
56	Geochemical investigations applied to active fault detection in a volcanic area: the North-East Rift on Mt. Etna (Sicily, Italy). <i>Geophysical Research Letters</i> , 1999, 26, 2005-2008.	4.0	18
57	New evidence for the form and extent of the Pernicana Fault System (Mt. Etna) from structural and soil gas surveying. <i>Journal of Volcanology and Geothermal Research</i> , 1998, 84, 143-152.	2.1	42
58	Anomalous soil CO ₂ degassing in relation to faults and eruptive fissures on Mount Etna (Sicily, Italy). <i>Bulletin of Volcanology</i> , 1998, 60, 252-259.	3.0	80
59	Soil CO ₂ degassing along tectonic structures of Mount Etna (Sicily): the Pernicana fault. <i>Applied Geochemistry</i> , 1997, 12, 429-436.	3.0	61
60	Chemical and isotopic characterization of the gases of Mount Etna (Italy). <i>Journal of Volcanology and Geothermal Research</i> , 1997, 78, 65-76.	2.1	43
61	Soil CO ₂ degassing on Mt Etna (Sicily) during the period 1989-1993: discrimination between climatic and volcanic influences. <i>Bulletin of Volcanology</i> , 1995, 57, 52-60.	3.0	62
62	Soil CO. <i>Bulletin of Volcanology</i> , 1995, 57, 52.	3.0	42
63	Gas hazard on Vulcano Island. <i>Nature</i> , 1991, 350, 26-27.	27.8	34
64	CO ₂ and H ₂ S concentrations in the atmosphere at the Solfatara of Pozzuoli. <i>Bulletin of Volcanology</i> , 1984, 47, 287-293.	3.0	17
65	Fault-controlled Soil CO ₂ Degassing and Shallow Magma Bodies: Summit and Lower East Rift of Kilauea Volcano (Hawaii), 1997. , 0, , 853-867.		1