

Giancarlo Tamburello

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

2,310
citations

159585

30
h-index

223800

46
g-index

72
all docs

72
docs citations

72
times ranked

1704
citing authors

#	ARTICLE	IF	CITATIONS
1	A model of degassing for Stromboli volcano. <i>Earth and Planetary Science Letters</i> , 2010, 295, 195-204.	4.4	148
2	Unmanned aerial vehicle measurements of volcanic carbon dioxide fluxes. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	142
3	Turmoil at Turrialba Volcano (Costa Rica): Degassing and eruptive processes inferred from high-frequency gas monitoring. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 5761-5775.	3.4	105
4	First observations of the fumarolic gas output from a restless caldera: Implications for the current period of unrest (2005–2013) at Campi Flegrei. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 4153-4169.	2.5	91
5	Global-scale control of extensional tectonics on CO ₂ earth degassing. <i>Nature Communications</i> , 2018, 9, 4608.	12.8	90
6	Protocols for UV camera volcanic SO ₂ measurements. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 194, 55-60.	2.1	83
7	Passive vs. active degassing modes at an open-vent volcano (Stromboli, Italy). <i>Earth and Planetary Science Letters</i> , 2012, 359-360, 106-116.	4.4	80
8	Hydrogen in the gas plume of an open-vent volcano, Mount Etna, Italy. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	70
9	A CO ₂ gas precursor to the March 2015 Villarrica volcano eruption. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 2120-2132.	2.5	66
10	Ratiocalc: Software for processing data from multicomponent volcanic gas analyzers. <i>Computers and Geosciences</i> , 2015, 82, 63-67.	4.2	58
11	Steam and gas emission rate from La Soufriere volcano, Guadeloupe (Lesser Antilles): Implications for the magmatic supply during degassing unrest. <i>Chemical Geology</i> , 2014, 384, 76-93.	3.3	56
12	Gas measurements from the Costa Rica–Nicaragua volcanic segment suggest possible along-arc variations in volcanic gas chemistry. <i>Earth and Planetary Science Letters</i> , 2014, 407, 134-147.	4.4	55
13	Periodic volcanic degassing behavior: The Mount Etna example. <i>Geophysical Research Letters</i> , 2013, 40, 4818-4822.	4.0	53
14	First volatile inventory for Gorely volcano, Kamchatka. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	52
15	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
16	New ground-based lidar enables volcanic CO ₂ flux measurements. <i>Scientific Reports</i> , 2015, 5, 13614.	3.3	51
17	Intense magmatic degassing through the lake of Copahue volcano, 2013–2014. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 6071-6084.	3.4	50
18	The 2018 unrest phase at La Soufrière of Guadeloupe (French West Indies) andesitic volcano: Scrutiny of a failed but prodromal phreatic eruption. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 393, 106769.	2.1	45

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19	Mercury fluxes from volcanic and geothermal sources: an update. Geological Society Special Publication, 2015, 410, 263-285.	1.3	43
20	Carbon dioxide diffuse emission and thermal energy release from hydrothermal systems at Copahue-Caviahue Volcanic Complex (Argentina). Journal of Volcanology and Geothermal Research, 2015, 304, 294-303.	2.1	43
21	Escalating CO ₂ degassing at the Pisciarelli fumarolic system, and implications for the ongoing Campi Flegrei unrest. Journal of Volcanology and Geothermal Research, 2019, 384, 151-157.	2.1	43
22	Intercomparison of SO ₂ camera systems for imaging volcanic gas plumes. Journal of Volcanology and Geothermal Research, 2015, 300, 22-36.	2.1	42
23	UV camera measurements of fumarole field degassing (La Fossa crater, Vulcano Island). Journal of Volcanology and Geothermal Research, 2011, 199, 47-52.	2.1	41
24	A Low-Cost Smartphone Sensor-Based UV Camera for Volcanic SO ₂ Emission Measurements. Remote Sensing, 2017, 9, 27.	4.0	41
25	High time resolution fluctuations in volcanic carbon dioxide degassing from Mount Etna. Journal of Volcanology and Geothermal Research, 2014, 270, 115-121.	2.1	40
26	First determination of magma-derived gas emissions from Bromo volcano, eastern Java (Indonesia). Journal of Volcanology and Geothermal Research, 2015, 304, 206-213.	2.1	34
27	Spatially resolved SO ₂ flux emissions from Mt Etna. Geophysical Research Letters, 2016, 43, 7511-7519.	4.0	34
28	Ultraviolet Imaging of Volcanic Plumes: A New Paradigm in Volcanology. Geosciences (Switzerland), 2017, 7, 68.	2.2	34
29	Fumarolic tremor and geochemical signals during a volcanic unrest. Geology, 2017, 45, 1131-1134.	4.4	34
30	Gas mass derived by infrasound and UV cameras: Implications for mass flow rate. Journal of Volcanology and Geothermal Research, 2016, 325, 169-178.	2.1	32
31	Gas emissions from five volcanoes in northern Chile and implications for the volatiles budget of the Central Volcanic Zone. Geophysical Research Letters, 2014, 41, 4961-4969.	4.0	31
32	Volcanic gas emissions and degassing dynamics at Ubinas and Sabancaya volcanoes; implications for the volatile budget of the central volcanic zone. Journal of Volcanology and Geothermal Research, 2017, 343, 181-191.	2.1	30
33	Carbon concentration increases with depth of melting in Earth's upper mantle. Nature Geoscience, 2021, 14, 697-703.	12.9	29
34	Spatio-Temporal Relationships between Fumarolic Activity, Hydrothermal Fluid Circulation and Geophysical Signals at an Arc Volcano in Degassing Unrest: La Soufrière de Guadeloupe (French West Indies). Journal of Volcanology and Geothermal Research, 2018, 351, 1-12.	2.1	28
35	Combined ground and aerial measurements resolve vent-specific gas fluxes from a multi-vent volcano. Nature Communications, 2020, 11, 3039.	12.8	27
36	Spectroscopic capture of 1 Hz volcanic SO ₂ fluxes and integration with volcano geophysical data. Geophysical Research Letters, 2009, 36, .	4.0	26

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37	Dynamics of mild strombolian activity on Mt. Etna. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 300, 103-111.	2.1	26
38	Volcanic CO ₂ tracks the incubation period of basaltic paroxysms. <i>Science Advances</i> , 2021, 7, eabh0191.	10.3	25
39	New insights into the magmatic-hydrothermal system and volatile budget of Lastarria volcano, Chile: Integrated results from the 2014 IAVCEI CCGV 12th Volcanic Gas Workshop. , 2018, 14, 983-1007.		23
40	Correlation of oscillatory behaviour in Matlab using wavelets. <i>Computers and Geosciences</i> , 2014, 70, 206-212.	4.2	22
41	Exploring the explosive-effusive transition using permanent ultraviolet cameras. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 4377-4394.	3.4	22
42	Conduit dynamics and post explosion degassing on Stromboli: A combined UV camera and numerical modeling treatment. <i>Geophysical Research Letters</i> , 2016, 43, 5009-5016.	4.0	21
43	Changes in SO ₂ Flux Regime at Mt. Etna Captured by Automatically Processed Ultraviolet Camera Data. <i>Remote Sensing</i> , 2019, 11, 1201.	4.0	20
44	Magmatic gas percolation through the old lava dome of El Misti volcano. <i>Bulletin of Volcanology</i> , 2017, 79, 46.	3.0	18
45	Dukono, the predominant source of volcanic degassing in Indonesia, sustained by a depleted Indian-MORB. <i>Bulletin of Volcanology</i> , 2018, 80, 1.	3.0	16
46	Mercury emissions from soils and fumaroles of Nea Kameni volcanic centre, Santorini (Greece). <i>Geochemical Journal</i> , 2013, 47, 437-450.	1.0	15
47	Fatal necrotising fasciitis associated with intramuscular injection of nonsteroidal anti-inflammatory drugs after uncomplicated endoscopic polypectomy. <i>Journal of Infection</i> , 2007, 54, e145-e148.	3.3	12
48	Geochemical constraints on volatile sources and subsurface conditions at Mount Martin, Mount Mageik, and Trident Volcanoes, Katmai Volcanic Cluster, Alaska. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 347, 64-81.	2.1	12
49	Gas Monitoring of Volcanic-Hydrothermal Plumes in a Tropical Environment: The Case of La Soufrière de Guadeloupe Unrest Volcano (Lesser Antilles). <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	12
50	The dynamics of slug trains in volcanic conduits: Evidence for expansion driven slug coalescence. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 348, 26-35.	2.1	11
51	Understanding the SO ₂ Degassing Budget of Mt Etna's Paroxysms: First Clues From the December 2015 Sequence. <i>Frontiers in Earth Science</i> , 2019, 6, .	1.8	10
52	Isotopically (¹³ C and ¹⁸ O) heavy volcanic plumes from Central Andean volcanoes: a field study. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	3.0	9
53	Geological and Geophysical Factors Constraining the Occurrence of Earthquake Precursors in Geofluids: A Review and Reinterpretation. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	9
54	Vulcamera: a program for measuring volcanic SO ₂ using UV cameras. <i>Annals of Geophysics</i> , 2011, 54, .	1.0	9

#	ARTICLE	IF	CITATIONS
55	A Novel and Inexpensive Method for Measuring Volcanic Plume Water Fluxes at High Temporal Resolution. <i>Remote Sensing</i> , 2017, 9, 146.	4.0	7
56	Recent advances in ground-based ultraviolet remote sensing of volcanic SO ₂ fluxes. <i>Annals of Geophysics</i> , 2011, 54, .	1.0	7
57	Testing gas dispersion modelling: A case study at La Soufrière volcano (Guadeloupe, Lesser Antilles). <i>Journal of Volcanology and Geothermal Research</i> , 2021, 417, 107312.	2.1	6
58	New insights into the degassing dynamics of Lago Albano (Colli Albani volcano, Rome, Italy) during the last three decades (1989-2019). <i>Italian Journal of Geosciences</i> , 2021, 140, 29-41.	0.8	5
59	First simultaneous mercury and major volatiles characterization of atmospheric hydrothermal emissions at the Pisciarelli's fumarolic system (Campi Flegrei, Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2020, 406, 107074.	2.1	4
60	UVolc: A software platform for measuring volcanic SO ₂ fluxes. <i>Computers and Geosciences</i> , 2012, 40, 194-199.	4.2	3
61	CO ₂ and H ₂ S Degassing at Fangaia Mud Pool, Solfatara, Campi Flegrei (Italy): Origin and Dynamics of the Pool Basin. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 1051.	2.0	2
62	Volcanic Lakes in Africa: The VOLADA_Africa 2.0 Database, and Implications for Volcanic Hazard. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	1
63	Reply to Kern, C. The Difficulty of Measuring the Absorption of Scattered Sunlight by H ₂ O and CO ₂ in Volcanic Plumes: A Comment on Perring, et al. "A Novel and Inexpensive Method for Measuring Volcanic Plume Water Fluxes at High Temporal Resolution", <i>Remote Sens.</i> 2017, 9, 146. <i>Remote Sensing</i> , 2017, 9, 1040.	4.0	0
64	Eruptions from UV to TIR: multispectral high-speed imaging of explosive volcanic activity. , 2018, , .		0