

Jacopo Taddeucci

List of Publications by Year in descending order

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94
papers

3,616
citations

109321

35
h-index

155660

55
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109
all docs

109
docs citations

109
times ranked

2341
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling the crystallization conditions of clinopyroxene crystals erupted during February–April 2021 lava fountains at Mt. Etna: Implications for the dynamic transfer of magmas. <i>Lithos</i> , 2022, 420-421, 106710.	1.4	3
2	The electrical signature of mafic explosive eruptions at Stromboli volcano, Italy. <i>Scientific Reports</i> , 2022, 12, .	3.3	4
3	Field-based measurements of volcanic ash resuspension by wind. <i>Earth and Planetary Science Letters</i> , 2021, 554, 116684.	4.4	11
4	The Birth of a Hawaiian Fissure Eruption. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, .	3.4	6
5	The dynamics of explosive mafic eruptions: New insights from multiparametric observations. , 2021, , 379-411.		4
6	Fracturing and healing of basaltic magmas during explosive volcanic eruptions. <i>Nature Geoscience</i> , 2021, 14, 248-254.	12.9	21
7	Multi-parametric characterization of explosive activity at Batu Tara Volcano (Flores Sea, Indonesia). <i>Journal of Volcanology and Geothermal Research</i> , 2021, 413, 107199.	2.1	6
8	Characterising vent and crater shape changes at Stromboli: implications for risk areas. <i>Volcanica</i> , 2021, 4, 87-105.	1.8	17
9	Unoccupied Aircraft Systems (UASs) Reveal the Morphological Changes at Stromboli Volcano (Italy) before, between, and after the 3 July and 28 August 2019 Paroxysmal Eruptions. <i>Remote Sensing</i> , 2021, 13, 2870.	4.0	18
10	Volcanic Vortex Rings: Axial Dynamics, Acoustic Features, and Their Link to Vent Diameter and Supersonic Jet Flow. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092899.	4.0	9
11	Uncovering the eruptive patterns of the 2019 double-Paroxysm eruption crisis of Stromboli volcano. <i>Nature Communications</i> , 2021, 12, 4213.	12.8	35
12	Gas-Pyroclast Motions in Volcanic Conduits During Strombolian Eruptions, in Light of Shock Tube Experiments. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB019182.	3.4	7
13	Eruptive Styles Recognition Using High Temporal Resolution Geostationary Infrared Satellite Data. <i>Remote Sensing</i> , 2019, 11, 669.	4.0	4
14	Mechanisms of Ash Generation at Basaltic Volcanoes: The Case of Mount Etna, Italy. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	24
15	Time evolution of transient volcanic plumes: Insights from fractal analysis. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 371, 59-71.	2.1	10
16	Experimental simulations of volcanic ash resuspension by wind under the effects of atmospheric humidity. <i>Scientific Reports</i> , 2018, 8, 14509.	3.3	23
17	Parameterizing multi-vent activity at Stromboli Volcano (Aeolian Islands, Italy). <i>Bulletin of Volcanology</i> , 2018, 80, 1.	3.0	17
18	Characteristics of puffing activity revealed by ground-based, thermal infrared imaging: the example of Stromboli Volcano (Italy). <i>Bulletin of Volcanology</i> , 2017, 79, 1.	3.0	28

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19	Time-series analysis of fissure-fed multi-vent activity: a snapshot from the July 2014 eruption of Etna volcano (Italy). <i>Bulletin of Volcanology</i> , 2017, 79, 1.	3.0	16
20	Ash aggregation enhanced by deposition and redistribution of salt on the surface of volcanic ash in eruption plumes. <i>Scientific Reports</i> , 2017, 7, 45762.	3.3	23
21	Effect of particle volume fraction on the settling velocity of volcanic ash particles: insights from joint experimental and numerical simulations. <i>Scientific Reports</i> , 2017, 7, 39620.	3.3	31
22	Integrating puffing and explosions in a general scheme for Strombolian-style activity. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 1860-1875.	3.4	48
23	The Initial Development of Transient Volcanic Plumes as a Function of Source Conditions. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9784-9803.	3.4	24
24	In-flight dynamics of volcanic ballistic projectiles. <i>Reviews of Geophysics</i> , 2017, 55, 675-718.	23.0	32
25	The dynamics of volcanic jets: Temporal evolution of particles exit velocity from shock-tube experiments. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 6031-6045.	3.4	30
26	Drone Peers into Open Volcanic Vents. <i>Eos</i> , 2017, , .	0.1	5
27	High-resolution geochemistry of volcanic ash highlights complex magma dynamics during the Eyjafjallajökull 2010 eruption. <i>American Mineralogist</i> , 2017, 102, 1173-1186.	1.9	12
28	From magma ascent to ash generation: investigating volcanic conduit processes by integrating experiments, numerical modeling, and observations. <i>Annals of Geophysics</i> , 2017, 60, .	1.0	5
29	Assessing the volcanic hazard for Rome: $^{40}\text{Ar}/^{39}\text{Ar}$ and In^{SAR} constraints on the most recent eruptive activity and present-day uplift at Colli Albani Volcanic District. <i>Geophysical Research Letters</i> , 2016, 43, 6898-6906.	4.0	31
30	3D high-speed imaging of volcanic bomb trajectory in basaltic explosive eruptions. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4268-4275.	2.5	10
31	"Explosive volcanic activity at Mt. Yasur: A characterization of the acoustic events (9 th -12th July 2011)". <i>Journal of Volcanology and Geothermal Research</i> , 2016, 322, 175-183.	2.1	23
32	Stronger or longer: Discriminating between Hawaiian and Strombolian eruption styles. <i>Geology</i> , 2016, 44, 163-166.	4.4	43
33	Recycled ejecta modulating Strombolian explosions. <i>Bulletin of Volcanology</i> , 2016, 78, 1.	3.0	29
34	Explosive volcanic activity at Mt. Yasur: A characterization of the acoustic events (9 th -12th July 2011). <i>Journal of Volcanology and Geothermal Research</i> , 2015, 302, 24.	2.1	7
35	High-speed imaging of Strombolian eruptions: Gas-pyroclast dynamics in initial volcanic jets. <i>Geophysical Research Letters</i> , 2015, 42, 6253-6260.	4.0	25
36	Experimental investigation of the aggregation-disaggregation of colliding volcanic ash particles in turbulent, low-humidity suspensions. <i>Geophysical Research Letters</i> , 2015, 42, 1068-1075.	4.0	13

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37	Maars to calderas: end-members on a spectrum of explosive volcanic depressions. <i>Frontiers in Earth Science</i> , 2015, 3, .	1.8	19
38	MeMoVolc consensual document: a review of cross-disciplinary approaches to characterizing small explosive magmatic eruptions. <i>Bulletin of Volcanology</i> , 2015, 77, 1.	3.0	22
39	Viscous plugging can enhance and modulate explosivity of strombolian eruptions. <i>Earth and Planetary Science Letters</i> , 2015, 423, 210-218.	4.4	47
40	CO2 bubble generation and migration during magma-carbonate interaction. <i>Contributions To Mineralogy and Petrology</i> , 2015, 169, 1.	3.1	36
41	Hawaiian and Strombolian Eruptions. , 2015, , 485-503.		47
42	Tephra ring interpretation in light of evolving maar-diatreme concepts: Stracciacappa maar (central) Tj ETQq0 0 0 rgBT /Overlock 10 1	2.1	39
43	Sequential fragmentation/transport theory, pyroclast size-density relationships, and the emplacement dynamics of pyroclastic density currents - A case study on the Mt. St. Helens (USA) 1980 eruption. <i>Journal of Volcanology and Geothermal Research</i> , 2014, 275, 1-13.	2.1	12
44	Maar-diatreme geometry and deposits: Subsurface blast experiments with variable explosion depth. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 740-764.	2.5	83
45	Pyroclast Tracking Velocimetry: A particle tracking velocimetry-based tool for the study of Strombolian explosive eruptions. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 5369-5383.	3.4	23
46	Pyroclast Tracking Velocimetry illuminates bomb ejection and explosion dynamics at Stromboli (Italy) and Yasur (Vanuatu) volcanoes. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 5384-5397.	3.4	52
47	Eruption dynamics and tephra dispersal from the 24 November 2006 paroxysm at South-East Crater, Mt Etna, Italy. <i>Journal of Volcanology and Geothermal Research</i> , 2014, 274, 78-91.	2.1	47
48	The acoustic signatures of ground acceleration, gas expansion, and spall fallback in experimental volcanic explosions. <i>Geophysical Research Letters</i> , 2014, 41, 1916-1922.	4.0	20
49	High-speed imaging, acoustic features, and aeroacoustic computations of jet noise from Strombolian (and Vulcanian) explosions. <i>Geophysical Research Letters</i> , 2014, 41, 3096-3102.	4.0	34
50	The thermal stability of Eyjafjallajökull ash versus turbine ingestion test sands. <i>Journal of Applied Volcanology</i> , 2014, 3, .	2.0	55
51	Ash Features from Ordinary Activity at Stromboli Volcano. <i>International Journal of Geosciences</i> , 2014, 05, 1361-1382.	0.6	7
52	The 15 March 2007 paroxysm of Stromboli: video-image analysis, and textural and compositional features of the erupted deposit. <i>Bulletin of Volcanology</i> , 2013, 75, 1.	3.0	28
53	Experimental birth of a maar-diatreme volcano. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 260, 1-12.	2.1	55
54	Linked frequency and intensity of persistent volcanic activity at Stromboli (Italy). <i>Geophysical Research Letters</i> , 2013, 40, 3384-3388.	4.0	48

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55	Insights into explosion dynamics and the production of ash at Stromboli from samples collected in real-time, October 2009. , 2013, , .		7
56	The effect of pre-existing craters on the initial development of explosive volcanic eruptions: An experimental investigation. <i>Geophysical Research Letters</i> , 2013, 40, 507-510.	4.0	53
57	The effect of particle size on the rheology of liquid-solid mixtures with application to lava flows: Results from analogue experiments. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2661-2669.	2.5	37
58	The thickness of the falling film of liquid around a Taylor bubble. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 1041-1064.	2.1	70
59	Experimental craters formed by single and multiple buried explosions and implications for volcanic craters with emphasis on maars. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	52
60	SEM-based methods for the analysis of basaltic ash from weak explosive activity at Etna in 2006 and the 2007 eruptive crisis at Stromboli. <i>Physics and Chemistry of the Earth</i> , 2012, 45-46, 113-127.	2.9	33
61	High-speed imaging of Strombolian explosions: The ejection velocity of pyroclasts. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	94
62	An analytical model for gas overpressure in slug-driven explosions: Insights into Strombolian volcanic eruptions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	77
63	Physical parameterization of Strombolian eruptions via experimentally-validated modeling of high-speed observations. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	33
64	Photo-acoustic study of subshear and supershear ruptures in the laboratory. <i>Earth and Planetary Science Letters</i> , 2011, 308, 424-432.	4.4	33
65	Aggregation-dominated ash settling from the Eyjafjallajökull volcanic cloud illuminated by field and laboratory high-speed imaging. <i>Geology</i> , 2011, 39, 891-894.	4.4	88
66	A note on maar eruption energetics: current models and their application. <i>Bulletin of Volcanology</i> , 2010, 72, 75-83.	3.0	36
67	Constraints on magma-wall rock thermal interaction during explosive eruptions from textural analysis of cored bombs. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 192, 27-34.	2.1	24
68	Experimental observation of stick-slip instability fronts. <i>Geophysical Journal International</i> , 2010, 180, 697-702.	2.4	115
69	Rock magnetism and palaeomagnetism of the Montalbano Jonico section (Italy): evidence for late diagenetic growth of greigite and implications for magnetostratigraphy. <i>Geophysical Journal International</i> , 2010, 180, 1049-1066.	2.4	53
70	Basaltic scoria textures from a zoned conduit as precursors to violent Strombolian activity. <i>Geology</i> , 2010, 38, 439-442.	4.4	54
71	Energy consumption by magmatic fragmentation and pyroclast ejection during Vulcanian eruptions. <i>Earth and Planetary Science Letters</i> , 2010, 291, 60-69.	4.4	68
72	Cooling rate-induced differentiation in anhydrous and hydrous basalts at 500 MPa: Implications for the storage and transport of magmas in dikes. <i>Chemical Geology</i> , 2010, 270, 164-178.	3.3	46

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73	Sub-surface dynamics and eruptive styles of maars in the Colli Albani Volcanic District, Central Italy. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 180, 189-202.	2.1	60
74	Shifting styles of basaltic explosive activity during the 2002â€“03 eruption of Mt. Etna, Italy. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 180, 110-122.	2.1	66
75	Compositional, morphological, and hysteresis characterization of magnetic airborne particulate matter in Rome, Italy. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	78
76	Mid-distal occurrences of the Albano Maar pyroclastic deposits and their relevance for reassessing the eruptive scenarios of the most recent activity at the Colli Albani Volcanic District, Central Italy. <i>Quaternary International</i> , 2007, 171-172, 160-178.	1.5	51
77	Advances in the study of volcanic ash. <i>Eos</i> , 2007, 88, 253-256.	0.1	17
78	Flow and fracturing of viscoelastic media under diffusion-driven bubble growth: An analogue experiment for eruptive volcanic conduits. <i>Earth and Planetary Science Letters</i> , 2006, 243, 771-785.	4.4	19
79	The effect of H ₂ O on the viscosity of K-trachytic melts at magmatic temperatures. <i>Chemical Geology</i> , 2006, 235, 124-137.	3.3	21
80	Eruptive history and petrologic evolution of the Albano multiple maar (Alban Hills, Central Italy). <i>Bulletin of Volcanology</i> , 2006, 68, 567-591.	3.0	101
81	Conduit implosion during Vulcanian eruptions. <i>Geology</i> , 2005, 33, 581.	4.4	76
82	Reply to comment by M. A. Laurenzi on "Recurrence of volcanic activity along the Roman Comagmatic Province (Tyrrhenian margin of Italy) and its tectonic significance" <i>Tectonics</i> , 2005, 24, n/a-n/a.	2.8	0
83	Conduit processes during the Julyâ€“August 2001 explosive activity of Mt. Etna (Italy): inferences from glass chemistry and crystal size distribution of ash particles. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 137, 33-54.	2.1	159
84	Experimental and analytical modeling of basaltic ash explosions at Mount Etna, Italy, 2001. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	27
85	Recurrence of volcanic activity along the Roman Comagmatic Province (Tyrrhenian margin of Italy) and its tectonic significance. <i>Tectonics</i> , 2004, 23, n/a-n/a.	2.8	47
86	The fragmentation threshold of pyroclastic rocks. <i>Earth and Planetary Science Letters</i> , 2004, 226, 139-148.	4.4	230
87	Post-caldera activity in the Alban Hills volcanic district (Italy): ⁴⁰ Ar/ ³⁹ Ar geochronology and insights into magma evolution. <i>Bulletin of Volcanology</i> , 2003, 65, 227-247.	3.0	86
88	Monitoring the explosive activity of the July-August 2001 eruption of Mt. Etna (Italy) by ash characterization. <i>Geophysical Research Letters</i> , 2002, 29, 71-1-71-4.	4.0	123
89	The 472 AD Pollena eruption of Somma-Vesuvius (Italy) and its environmental impact at the end of the Roman Empire. <i>Journal of Volcanology and Geothermal Research</i> , 2002, 113, 19-36.	2.1	45
90	Particle size-density relationships in pyroclastic deposits: inferences for emplacement processes. <i>Bulletin of Volcanology</i> , 2002, 64, 273-284.	3.0	35

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91	Temporal evolution of the Minoan eruption (Santorini, Greece), as recorded by its Plinian fall deposit and interlayered ash flow beds. <i>Journal of Volcanology and Geothermal Research</i> , 2001, 109, 299-317.	2.1	26
92	The basal ash deposit of the Sovana Eruption (Vulsini Volcanoes, central Italy): the product of a dilute pyroclastic density current. <i>Journal of Volcanology and Geothermal Research</i> , 1998, 87, 233-254.	2.1	26
93	Volcaniclastic aggradation in a semiarid environment, northwestern Vulcano Island, Italy. <i>Bulletin of the Geological Society of America</i> , 1998, 110, 630-643.	3.3	12
94	Experimental multiblast craters and ejecta "seismoacoustics, jet characteristics, craters, and ejecta deposits and implications for volcanic explosions. <i>Journal of Geophysical Research: Solid Earth</i> , 0, , .	3.4	1