## Raffaello Cioni

List of Publications by Year in descending order

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76326 98798 4,901 112 40 67 citations h-index g-index papers 123 123 123 3019 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Age and whole rock–glass compositions of proximal pyroclastics from the major explosive eruptions of Somma-Vesuvius: A review as a tool for distal tephrostratigraphy. Journal of Volcanology and Geothermal Research, 2008, 177, 1-18.	2.1	257
2	Compositional Layering and Syn-eruptive Mixing of a Periodically Refilled Shallow Magma Chamber: the AD 79 Plinian Eruption of Vesuvius. Journal of Petrology, 1995, 36, 739-776.	2.8	199
3	Pyroclastic deposits as a guide for reconstructing the multi-stage evolution of the Somma-Vesuvius Caldera. Bulletin of Volcanology, 1999, 61, 207-222.	3.0	187
4	Developing an Event Tree for probabilistic hazard and risk assessment at Vesuvius. Journal of Volcanology and Geothermal Research, 2008, 178, 397-415.	2.1	179
5	Explosive activity and eruption scenarios at Somma-Vesuvius (Italy): Towards a new classification scheme. Journal of Volcanology and Geothermal Research, 2008, 178, 331-346.	2.1	166
6	Tephra sedimentation during the 2010 Eyjafjallaj $ ilde{A}$ fkull eruption (Iceland) from deposit, radar, and satellite observations. Journal of Geophysical Research, 2011, 116, .	3.3	142
7	Upward migration of Vesuvius magma chamber over the past 20,000 years. Nature, 2008, 455, 216-219.	27.8	131
8	Magmatic and phreatomagmatic phases in explosive eruptions of Vesuvius as deduced by grain-size and component analysis of the pyroclastic deposits. Journal of Volcanology and Geothermal Research, 1989, 38, 287-307.	2.1	118
9	Breadcrust bombs as indicators of Vulcanian eruption dynamics at Guagua Pichincha volcano, Ecuador. Bulletin of Volcanology, 2006, 69, 281-300.	3.0	117
10	Thermal and compositional evolution of the shallow magma chambers of Vesuvius: Evidence from pyroxene phenocrysts and melt inclusions. Journal of Geophysical Research, 1998, 103, 18277-18294.	3.3	116
11	Complex changes in eruption dynamics during the 79 AD eruption of Vesuvius. Bulletin of Volcanology, 2005, 67, 144-159.	3.0	109
12	The major and trace element glass compositions of the productive Mediterranean volcanic sources: tools for correlating distal tephra layers in and around Europe. Quaternary Science Reviews, 2015, 118, 48-66.	3.0	108
13	Assessing pyroclastic fall hazard through field data and numerical simulations: Example from Vesuvius. Journal of Geophysical Research, 2003, 108, .	3.3	107
14	Contrasting styles of Mount Vesuvius activity in the period between the Avellino and Pompeii Plinian eruptions, and some implications for assessment of future hazards. Bulletin of Volcanology, 2002, 64, 372-391.	3.0	103
15	Temperatures of the A.D. 79 pyroclastic density current deposits (Vesuvius, Italy). Journal of Geophysical Research, 2004, 109, .	3.3	94
16	Petrology and geochemistry of the ultrapotassic rocks from the Sabatini Volcanic District, central Italy: the role of evolutionary processes in the genesis of variably enriched alkaline magmas. Journal of Volcanology and Geothermal Research, 1997, 75, 107-136.	2.1	91
17	Complex dynamics of small-moderate volcanic events: the example of the 2011 rhyolitic Cord $\tilde{A}^3$ n Caulle eruption, Chile. Bulletin of Volcanology, 2015, 77, 1.	3.0	86
18	Volatile content and degassing processes in the AD 79 magma chamber at Vesuvius (Italy). Contributions To Mineralogy and Petrology, 2000, 140, 40-54.	3.1	85

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19	Changes in eruptive style during the A.D. 1538 Monte Nuovo eruption (Phlegrean Fields, Italy): the role of syn-eruptive crystallization. Bulletin of Volcanology, 2005, 67, 601-621.	3.0	77
20	Variability of the eruption dynamics during a Subplinian event: the Greenish Pumice eruption of Somma–Vesuvius (Italy). Journal of Volcanology and Geothermal Research, 2003, 124, 89-114.	2.1	74
21	Dynamics of windâ€affected volcanic plumes: The example of the 2011 Cordón Caulle eruption, Chile. Journal of Geophysical Research: Solid Earth, 2015, 120, 2242-2261.	3.4	70
22	Evaluation of results from the fourth and fifth IAVCEI field workshops on volcanic gases, Vulcano island, Italy and Java, Indonesia. Journal of Volcanology and Geothermal Research, 2001, 108, 157-172.	2.1	68
23	Emergency planning and mitigation at Vesuvius: A new evidence-based approach. Journal of Volcanology and Geothermal Research, 2008, 178, 454-473.	2.1	68
24	Insights into the dynamics and evolution of the 2010 Eyjafjallajökull summit eruption (Iceland) provided by volcanic ash textures. Earth and Planetary Science Letters, 2014, 394, 111-123.	4.4	66
25	Chronology and impact of the 2011 Cord $\tilde{A}^3$ n Caulle eruption, Chile. Natural Hazards and Earth System Sciences, 2016, 16, 675-704.	3.6	61
26	Potassic primary melts of vulsini (Roman Province): evidence from mineralogy and melt inclusions. Contributions To Mineralogy and Petrology, 1995, 120, 186-196.	3.1	60
27	Pyroclastic flow hazard assessment at Somma–Vesuvius based on the geological record. Bulletin of Volcanology, 2010, 72, 1021-1038.	3.0	60
28	Column collapse and generation of pyroclastic density currents during the A.D. 79 eruption of Vesuvius: The role of pyroclast density. Geology, 2011, 39, 695-698.	4.4	57
29	The Pomici di Avellino eruption of Somma-Vesuvius (3.9Âka bp). Part I: stratigraphy, compositional variability and eruptive dynamics. Bulletin of Volcanology, 2010, 72, 539-558.	3.0	56
30	Carbonate-derived CO2 purging magma at depth: Influence on the eruptive activity of Somma-Vesuvius, Italy. Earth and Planetary Science Letters, 2011, 310, 84-95.	4.4	54
31	Scavenging of sulphur, halogens and trace metals by volcanic ash: The 2010 Eyjafjallaj $ ilde{A}$ ¶kull eruption. Geochimica Et Cosmochimica Acta, 2013, 103, 138-160.	3.9	54
32	Leucite crystals: Surviving witnesses of magmatic processes preceding the 79AD eruption at Vesuvius, Italy. Earth and Planetary Science Letters, 2009, 281, 88-98.	4.4	53
33	Fingerprinting ash deposits of small scale eruptions by their physical and textural features. Journal of Volcanology and Geothermal Research, 2008, 177, 277-287.	2.1	51
34	Sedimentation of long-lasting wind-affected volcanic plumes: the example of the 2011 rhyolitic Cord $\tilde{A}^3$ n Caulle eruption, Chile. Bulletin of Volcanology, 2015, 77, 1.	3.0	51
35	Aborted propagation of the Ethiopian rift caused by linkage with the Kenyan rift. Nature Communications, 2019, 10, 1309.	12.8	49
36	Transport and deposition of pyroclastic density currents over an inhabited area: the deposits of the AD 79 eruption of Vesuvius at Herculaneum, Italy. Sedimentology, 2002, 49, 929-953.	3.1	48

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37	Determination of the largest clast sizes of tephra deposits for the characterization of explosive eruptions: a study of the IAVCEI commission on tephra hazard modelling. Bulletin of Volcanology, 2013, 75, 1.	3.0	48
38	Morphologic features of juvenile pyroclasts from magmatic and phreatomagmatic deposits of Vesuvius. Journal of Volcanology and Geothermal Research, 1992, 51, 61-78.	2.1	46
39	Identifying recycled ash in basaltic eruptions. Scientific Reports, 2014, 4, 5851.	3.3	46
40	Lahar hazard assessment in the southern drainage system of Cotopaxi volcano, Ecuador: Results from multiscale lahar simulations. Geomorphology, 2014, 207, 51-63.	2.6	40
41	Near-Real-Time Tephra Fallout Assessment at Mt. Etna, Italy. Remote Sensing, 2019, 11, 2987.	4.0	40
42	Archaeomagnetic results from mural paintings and pyroclastic rocks in Pompeii and Herculaneum. Physics of the Earth and Planetary Interiors, 2000, 118, 227-240.	1.9	39
43	Physical volcanology of the post-twelfth-century activity at Cotopaxi volcano, Ecuador: Behavior of an andesitic central volcano. Bulletin of the Geological Society of America, 2011, 123, 1193-1215.	3.3	39
44	Nature and Evolution of Primitive Vesuvius Magmas: an Experimental Study. Journal of Petrology, 2014, 55, 2281-2310.	2.8	37
45	Plinian and Subplinian Eruptions. , 2015, , 519-535.		35
46	Potential impacts of tephra fallout from a large-scale explosive eruption at Sakurajima volcano, Japan. Bulletin of Volcanology, 2017, 79, 1.	3.0	33
47	MeMoVolc report on classification and dynamics of volcanic explosive eruptions. Bulletin of Volcanology, 2016, 78, 1.	3.0	31
48	The 512 AD eruption of Vesuvius: complex dynamics of a small scale subplinian event. Bulletin of Volcanology, 2011, 73, 789-810.	3.0	30
49	Assessing future vent opening locations at the Sommaâ€Vesuvio volcanic complex: 2. Probability maps of the caldera for a future Plinian/subâ€Plinian event with uncertainty quantification. Journal of Geophysical Research: Solid Earth, 2017, 122, 4357-4376.	3.4	28
50	Geomorphology of Mount Ararat/AÄŸri DaÄŸi (AÄŸri DaÄŸi Milli Parki, Eastern Anatolia, Turkey). Journal of Maps, 2017, 13, 182-190.	2.0	28
51	Aeolian Remobilisation of the $2011\text{-Cord}\tilde{A}^3$ n Caulle Tephra-Fallout Deposit: Example of an Important Process in the Life Cycle of Volcanic Ash. Frontiers in Earth Science, 0, 7, .	1.8	28
52	Temperature of Vesuvius magmas. Geology, 1999, 27, 443.	4.4	27
53	Caldera structure, amount of collapse, and erupted volumes: The case of Bolsena caldera, Italy. Bulletin of the Geological Society of America, 2012, 124, 1562-1576.	3.3	27
54	Stability of volcanic conduits during explosive eruptions. Journal of Volcanology and Geothermal Research, 2017, 339, 52-62.	2.1	27

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55	Evidence for lahar-triggering mechanisms in complex stratigraphic sequences: the post-twelfth century eruptive activity of Cotopaxi Volcano, Ecuador. Bulletin of Volcanology, 2013, 75, 1.	3.0	26
56	Dynamics of ash-dominated eruptions at Vesuvius: the post-512ÂAD AS1a event. Bulletin of Volcanology, 2011, 73, 699-715.	3.0	25
57	Precursory phenomena and destructive events related to the Late Bronze Age Minoan (Thera, Greece) and <scp>AD</scp> 79 (Vesuvius, Italy) Plinian eruptions; inferences from the stratigraphy in the archaeological areas. Geological Society Special Publication, 2000, 171, 123-141.	1.3	24
58	Apulian Bronze Age pottery as a long-distance indicator of the Avellino Pumice eruption (Vesuvius,) Tj ETQq0 0	0 rgBJ /Ov	erlock 10 Tf 5
59	Eruption early warning at Vesuvius: The A.D. 1631 lesson. Geophysical Research Letters, 2006, 33, n/a-n/a.	4.0	24
60	Magma degassing and eruption dynamics of the Avellino pumice Plinian eruption of Somma–Vesuvius (Italy). Comparison with the Pompeii eruption. Earth and Planetary Science Letters, 2012, 331-332, 257-268.	4.4	23
61	Chlorine as a geobarometer for alkaline magmas: Evidence from a systematic study of the eruptions of Mount Somma-Vesuvius. Scientific Reports, 2016, 6, 21726.	3.3	23
62	Precursors to the plinian eruptions of thera (late bronze age) and vesuvius (AD 79): Data from archaeological areas. Physics and Chemistry of the Earth, 2000, 25, 719-724.	0.6	22
63	Effects of experimental reheating of natural basaltic ash at different temperatures and redox conditions. Contributions To Mineralogy and Petrology, 2013, 165, 863-883.	3.1	22
64	MeMoVolc consensual document: a review of cross-disciplinary approaches to characterizing small explosive magmatic eruptions. Bulletin of Volcanology, 2015, 77, 1.	3.0	22
65	The 1914 Taisho eruption of Sakurajima volcano: stratigraphy and dynamics of the largest explosive event in Japan during the twentieth century. Bulletin of Volcanology, 2017, 79, 1.	3.0	22
66	Assessing future vent opening locations at the Sommaâ€Vesuvio volcanic complex: 1. A new information geodatabase with uncertainty characterizations. Journal of Geophysical Research: Solid Earth, 2017, 122, 4336-4356.	3.4	22
67	Volcanic evolution of the Somma-Vesuvius Complex (Italy). Journal of Maps, 2020, 16, 137-147.	2.0	19
68	Dynamics and tephra dispersal of Violent Strombolian eruptions at Vesuvius: insights from field data, wind reconstruction and numerical simulation of the 1906 event. Bulletin of Volcanology, 2015, 77, 1.	3.0	18
69	The Volcanic and Mining Geoheritage of San Pietro Island (Sulcis, Sardinia, Italy): the Potential for Geosite Valorization. Geoheritage, 2019, 11, 1567-1581.	2.8	18
70	Conduit stability effects on intensity and steadiness of explosive eruptions. Scientific Reports, 2018, 8, 4125.	3.3	17
71	Treeâ€Branchingâ€Based Enhancement of Kinetic Energy Models for Reproducing Channelization Processes of Pyroclastic Density Currents. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB019271.	3.4	16
72	The explosive activity of the 1669 Monti Rossi eruption at Mt. Etna (Italy). Journal of Volcanology and Geothermal Research, 2016, 328, 115-133.	2.1	15

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73	The Baia–Fondi di Baia eruption at Campi Flegrei: stratigraphy and dynamics of a multi-stage caldera reactivation event. Bulletin of Volcanology, 2017, 79, 1.	3.0	15
74	Exposure-based risk assessment and emergency management associated with the fallout of large clasts at Mount Etna. Natural Hazards and Earth System Sciences, 2019, 19, 589-610.	3.6	15
<b>7</b> 5	Defining the Pre-Eruptive States of Active Volcanoes for Improving Eruption Forecasting. Frontiers in Earth Science, 2022, 10, .	1.8	15
76	Tephrochronology and tephrostratigraphy of two Pleistocene continental fossiliferous successions from central Italy. Journal of Quaternary Science, 2003, 18, 545-556.	2.1	13
77	Strategies for helium pycnometry density measurements of welded ignimbritic rocks. Measurement: Journal of the International Measurement Confederation, 2021, 173, 108640.	5.0	13
78	Physical constraints for effective magma-water interaction along volcanic conduits during silicic explosive eruptions. Geology, 2018, 46, 867-870.	4.4	12
79	Recent volcano-tectonic activity of the Ririba rift and the evolution of rifting in South Ethiopia. Journal of Volcanology and Geothermal Research, 2020, 403, 106989.	2.1	12
80	Evolution of Conduit Geometry and Eruptive Parameters During Effusive Events. Geophysical Research Letters, 2018, 45, 7471-7480.	4.0	10
81	Physical and Aerodynamic Characterization of Particle Clusters at Sakurajima Volcano (Japan). Frontiers in Earth Science, 2020, 8, .	1.8	10
82	Low-Energy Fragmentation Dynamics at Copahue Volcano (Argentina) as Revealed by an Infrasonic Array and Ash Characteristics. Frontiers in Earth Science, 2021, 9, .	1.8	9
83	Rheomorphic diapirs in densely welded ignimbrites: The Serra di Paringianu ignimbrite of Sardinia, Italy. Journal of Volcanology and Geothermal Research, 2013, 258, 12-23.	2.1	8
84	Estimating eruptive parameters and related uncertainties for pyroclastic density currents deposits: worked examples from Somma-Vesuvius (Italy). Bulletin of Volcanology, 2020, 82, 1.	3.0	8
85	Reproducing pyroclastic density current deposits of the 79 CE eruption of the Somma–Vesuvius volcano using the box-model approach. Solid Earth, 2021, 12, 119-139.	2.8	8
86	Magmatic reactivation of the Campi Flegrei volcanic system: insights from the Baia–Fondi di Baia eruption. Bulletin of Volcanology, 2018, 80, 1.	3.0	7
87	Eruption type probability and eruption source parameters at Cotopaxi and Guagua Pichincha volcanoes (Ecuador) with uncertainty quantification. Bulletin of Volcanology, 2021, 83, 1.	3.0	7
88	Thematic vent opening probability maps and hazard assessment of small-scale pyroclastic density currents in the San Salvador volcanic complex (ElÂSalvador) and Nejapa-Chiltepe volcanic complex (Nicaragua). Natural Hazards and Earth System Sciences, 2021, 21, 1639-1665.	3.6	7
89	Structural geology of crystal-rich, silicic lava flows: A case study from San Pietro Island (Sardinia,) Tj ETQq1 1 0	.784314 rgB <sup>-</sup>	T <u>/</u> Overlock
90	Tracing the boundaries of Cenozoic volcanic edifices from Sardinia (Italy): a geomorphometric contribution. Earth Surface Dynamics, 2014, 2, 481-492.	2.4	5

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91	Comment on: "The dark nature of Somma-Vesuvius volcano: Evidence from the â^⅓3.5kaBP Avellino eruption―by Milia A., Raspini A., Torrente M.M Quaternary International, 2008, 192, 102-109.	1.5	4
92	The crater lake of Ilamatepec (Santa Ana) volcano, El Salvador: insights into lake gas composition and implications for monitoring. Bulletin of Volcanology, 2019, 81, 1.	3.0	4
93	Origin of volcanic-hosted Mn-oxide mineralization from San Pietro Island (SW Sardinia, Italy): An integrated geochemical, mineralogical and isotopic study. Journal of Geochemical Exploration, 2019, 204, 206-223.	3.2	4
94	Effusion Rate Evolution During Smallâ€Volume Basaltic Eruptions: Insights From Numerical Modeling. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB019301.	3.4	4
95	The Vesuvius and the other volcanoes of Central Italy. Geological Field Trips, 2017, 9, 1-158.	0.5	4
96	Explosive Behavior of Intermediate Magmas: The Example of Cotopaxi Volcano (Ecuador). Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009991.	2.5	4
97	Calibration strategies of PDC kinetic energy models and their application to the construction of hazard maps. Bulletin of Volcanology, 2022, 84, 1.	3.0	4
98	http://www.socgeol.it/368/58/products/a_simplified_scheme_for_the_description_of_textural_features_in_wel_Bollettino Della SocietA Geologica Italiana, 2009, , 615-627.	ded ignin 2 <del>.</del> 0	nbrijtes_the_6
99	Lithofacies characteristics of diatreme deposits: Examples from a basaltic volcanic field of SW Sardinia (Italy). Journal of Volcanology and Geothermal Research, 2013, 255, 1-14.	2.1	3
100	The onset of an eruption: selective assimilation of hydrothermal minerals during pre-eruptive magma ascent of the 2010 summit eruption of Eyjafjallajökull volcano, Iceland. Journal of Volcanology and Geothermal Research, 2016, 327, 449-458.	2.1	3
101	The 2nd to 4th century explosive activity of Vesuvius: new data on the timing of the upward migration of the post-A.D. 79 magma chamber. Annals of Geophysics, 2013, 56, .	1.0	3
102	Syn-Eruptive Processes During the January–February 2019 Ash-Rich Emissions Cycle at Mt. Etna (Italy): Implications for Petrological Monitoring of Volcanic Ash. Frontiers in Earth Science, 2022, 10, .	1.8	3
103	Potassic primary melts of Vulsini (Roman Province): evidence from mineralogy and melt inclusions. Contributions To Mineralogy and Petrology, 1995, 120, 186-196.	3.1	3
104	Eruptive dynamics and fragmentation mechanisms during cyclic Vulcanian activity at Sakurajima volcano (Japan): Insights from ash texture analysis. Journal of Volcanology and Geothermal Research, 2022, 428, 107582.	2.1	3
105	The Lithic Component of Pyroclastic Deposits as a Proxy for the Reconstruction of the Syneruptive Evolution of Volcanic Conduits: The CE 79 Eruption of Vesuvius. Journal of Geophysical Research: Solid Earth, 2019, 124, 11022-11037.	3.4	2
106	Experimental constraints on pre-eruption conditions of the 1631 Vesuvius eruption. Journal of Volcanology and Geothermal Research, 2020, 406, 107076.	2.1	2
107	The city of Napoli and its active volcanoes. Geological Field Trips, 2019, 11, 1-107.	0.5	2
108	Reply to the "Comment by Delmelle et al. (2013) on  Scavenging of sulfur, halogens and trace metals by volcanic ash: The 2010 Eyjafjallajökull eruption' by Bagnato et al. (2013)― Geochimica Et Cosmochimica Acta, 2014, 127, 385-389.	3.9	1

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109	Geochemical and textural constraints on degassing processes in sub-Plinian eruptions: case-study of the Greenish Pumice eruption of Mount Somma-Vesuvius. Bulletin of Volcanology, 2018, 80, 1.	3.0	1
110	Physical constraints for effective magma-water interaction along volcanic conduits during silicic explosive eruptions: REPLY. Geology, 2019, 47, e462-e462.	4.4	1
111	Understanding volcanic systems and their dynamics combining field and physical volcanology with petrology studies., 2021,, 285-328.		1
112	Editorial - Consolidating the new deal of the Italian Journal of Geosciences. Italian Journal of Geosciences, 2013, , 3-3.	0.8	0