

# Joan Marti

## List of Publications by Year in descending order

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218  
papers

7,394  
citations

44069

48  
h-index

82547

72  
g-index

238  
all docs

238  
docs citations

238  
times ranked

3982  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stratigraphy, structure and geochronology of the Las Cañadas caldera (Tenerife, Canary Islands). Geological Magazine, 1994, 131, 715-727.	1.5	248
2	Experimental studies of collapse calderas. Journal of the Geological Society, 1994, 151, 919-929.	2.1	182
3	Cenozoic magmatism of the valencia trough (western mediterranean): Relationship between structural evolution and volcanism—. Tectonophysics, 1992, 203, 145-165.	2.2	168
4	Basanite-Phonolite Lineages of the Teide-Pico Viejo Volcanic Complex, Tenerife, Canary Islands. Journal of Petrology, 1998, 39, 905-936.	2.8	166
5	Vertical and lateral collapses on Tenerife (Canary Islands) and other volcanic ocean islands. Geology, 1997, 25, 879.	4.4	165
6	Stratigraphy, structure, and volcanic evolution of the Pico Teide—Pico Viejo formation, Tenerife, Canary Islands. Journal of Volcanology and Geothermal Research, 2000, 103, 175-208.	2.1	152
7	The Las Cañadas caldera (Tenerife, Canary Islands): an overlapping collapse caldera generated by magma-chamber migration. Journal of Volcanology and Geothermal Research, 2000, 103, 161-173.	2.1	148
8	Glacial to interglacial vegetation changes in the northern and southern Pyrenees: Deglaciation, vegetation cover and chronology. Quaternary Science Reviews, 1992, 11, 449-480.	3.0	138
9	Causes and mechanisms of the 2011—2012 El Hierro (Canary Islands) submarine eruption. Journal of Geophysical Research: Solid Earth, 2013, 118, 823-839.	3.4	117
10	Stratigraphy of the Bandas del Sur Formation: an extracaldera record of Quaternary phonolitic explosive eruptions from the Las Cañadas edifice, Tenerife (Canary Islands). Geological Magazine, 1998, 135, 605-636.	1.5	114
11	The new worldwide collapse caldera database (CCDB): A tool for studying and understanding caldera processes. Journal of Volcanology and Geothermal Research, 2008, 175, 334-354.	2.1	111
12	Relationship between caldera collapse and magma chamber withdrawal: An experimental approach. Journal of Volcanology and Geothermal Research, 2006, 157, 375-386.	2.1	110
13	Automatic GIS-based system for volcanic hazard assessment. Journal of Volcanology and Geothermal Research, 2007, 166, 106-116.	2.1	110
14	April 2007 collapse of Piton de la Fournaise: A new example of caldera formation. Geophysical Research Letters, 2007, 34, .	4.0	104
15	The generation of overpressure in felsic magma chambers by replenishment. Earth and Planetary Science Letters, 1998, 163, 301-314.	4.4	100
16	Evidence for Fractional Crystallization of Periodically Refilled Magma Chambers in Tenerife, Canary Islands. Journal of Petrology, 1999, 40, 1089-1123.	2.8	98
17	Magmatic Evolution and Tectonic Setting of the Iberian Pyrite Belt Volcanism. Journal of Petrology, 1997, 38, 727-755.	2.8	93
18	The late Quaternary Diego Hernandez Formation, Tenerife: Volcanology of a complex cycle of voluminous explosive phonolitic eruptions. Journal of Volcanology and Geothermal Research, 2007, 160, 59-85.	2.1	89

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19	Shallow structure beneath the Central Volcanic Complex of Tenerife from new gravity data: Implications for its evolution and recent reactivation. <i>Physics of the Earth and Planetary Interiors</i> , 2008, 168, 212-230.	1.9	89
20	Chronological link between deep-seated processes in magma chambers and eruptions: Permo-Carboniferous magmatism in the core of Pangaea (Southern Pyrenees). <i>Gondwana Research</i> , 2014, 25, 290-308.	6.0	86
21	Stress fields generating ring faults in volcanoes. <i>Geophysical Research Letters</i> , 1997, 24, 1559-1562.	4.0	81
22	The 1706 subplinian eruption of Montaña Blanca, Tenerife. <i>Bulletin of Volcanology</i> , 1995, 57, 337-355.	3.0	79
23	Correlation of Magma Evolution and Geophysical Monitoring during the 2011-2012 El Hierro (Canary) Tj ETQq1 1 0,784314 rgBT /Overl	2.8	78
24	Magnetotelluric study of the Las Cañadas caldera (Tenerife, Canary Islands): structural and hydrogeological implications. <i>Earth and Planetary Science Letters</i> , 2002, 204, 249-263.	4.4	75
25	Injection and arrest of dykes: implications for volcanic hazards. <i>Journal of Volcanology and Geothermal Research</i> , 1999, 88, 1-13.	2.1	73
26	Complex interaction between Strombolian and phreatomagmatic eruptions in the Quaternary monogenetic volcanism of the Catalan Volcanic Zone (NE of Spain). <i>Journal of Volcanology and Geothermal Research</i> , 2011, 201, 178-193.	2.1	73
27	Volcanic hazard on Deception Island (South Shetland Islands, Antarctica). <i>Journal of Volcanology and Geothermal Research</i> , 2014, 285, 150-168.	2.1	71
28	Pressure evolution during explosive caldera-forming eruptions. <i>Earth and Planetary Science Letters</i> , 2000, 175, 275-287.	4.4	69
29	Tube pumices as strain markers of the ductile-brittle transition during magma fragmentation. <i>Nature</i> , 1999, 402, 650-653.	27.8	64
30	The Cerro Aguas Calientes caldera, NW Argentina: An example of a tectonically controlled, polygenetic collapse caldera, and its regional significance. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 194, 15-26.	2.1	64
31	Experimental constraints on pre-eruptive conditions of phonolitic magma from the caldera-forming El Abrigo eruption, Tenerife (Canary Islands). <i>Chemical Geology</i> , 2008, 257, 173-191.	3.3	60
32	QVAST: a new Quantum GIS plugin for estimating volcanic susceptibility. <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 3031-3042.	3.6	60
33	Petrology and Geochemistry of the Bandas del Sur Formation, Las Cañadas Edifice, Tenerife (Canary) Tj ETQq1 1 0,784314 rgBT /Overl	2.8	59
34	Magma-tectonic interaction and the eruption of silicic batholiths. <i>Earth and Planetary Science Letters</i> , 2009, 284, 426-434.	4.4	59
35	Volcanic Geoheritage. <i>Geoheritage</i> , 2017, 9, 251-254.	2.8	59
36	Volcanic stratigraphy: A review. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 357, 68-91.	2.1	59

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37	New evidence for the reawakening of Teide volcano. Geophysical Research Letters, 2006, 33, .	4.0	55
38	Geometrical and mechanical constraints on the formation of ring-fault calderas. Earth and Planetary Science Letters, 2004, 221, 215-225.	4.4	54
39	A long-term volcanic hazard event tree for Teide-Pico Viejo stratovolcanoes (Tenerife, Canary Islands). Journal of Volcanology and Geothermal Research, 2008, 178, 543-552.	2.1	54
40	Methodology for the computation of volcanic susceptibility. Journal of Volcanology and Geothermal Research, 2010, 195, 69-77.	2.1	54
41	A complex Quaternary ignimbrite-forming phonolitic eruption: the Poris Member of the Diego Hernández Formation (Tenerife, Canary Islands). Journal of Volcanology and Geothermal Research, 2002, 118, 99-130.	2.1	53
42	Characterisation of a volcanic residual soil and its implications for large landslide phenomena: application to Tenerife, Canary Islands. Engineering Geology, 2001, 59, 115-132.	6.3	51
43	The influence of palaeotopography on facies architecture and pyroclastic flow processes of a lithic-rich ignimbrite in a high gradient setting: The Abrigo Ignimbrite, Tenerife, Canary Islands. Journal of Volcanology and Geothermal Research, 2006, 152, 273-315.	2.1	51
44	Lithic breccias in intermediate volume phonolitic ignimbrites, Tenerife (Canary Islands): constraints on pyroclastic flow depositional processes. Journal of Volcanology and Geothermal Research, 1998, 81, 269-296.	2.1	50
45	Years to weeks of seismic unrest and magmatic intrusions precede monogenetic eruptions. Geology, 2016, 44, 211-214.	4.4	50
46	Conduction model for the thermal influence of lithic clasts in mixtures of hot gases and ejecta. Journal of Geophysical Research, 1991, 96, 21879-21885.	3.3	49
47	Facies analysis of volcano-sedimentary successions hosting massive sulfide deposits in the Iberian pyrite belt, Spain. Economic Geology, 1999, 94, 867-882.	3.8	49
48	Ground deformation in a viscoelastic medium composed of a layer overlying a half-space: a comparison between point and extended sources. Geophysical Journal International, 2000, 140, 37-50.	2.4	49
49	Assessing the potential for future explosive activity from Teide-Pico Viejo stratovolcanoes (Tenerife, Canary Islands). Journal of Volcanology and Geothermal Research, 2010, 195, 107-114.	2.1	49
50	Chapter 6 A Review on Collapse Caldera Modelling. Developments in Volcanology, 2008, , 233-283.	0.5	48
51	Long-term volcanic hazard assessment on El Hierro (Canary Islands). Natural Hazards and Earth System Sciences, 2014, 14, 1853-1870.	3.6	48
52	Gravity-driven deformation of Tenerife measured by InSAR time series analysis. Geophysical Research Letters, 2009, 36, .	4.0	47
53	Timing of Magmatic Processes and Unrest Associated with Mafic Historical Monogenetic Eruptions in Tenerife Island. Journal of Petrology, 2015, 56, 1945-1966.	2.8	46
54	Bayesian event tree for long-term volcanic hazard assessment: Application to Teide-Pico Viejo stratovolcanoes, Tenerife, Canary Islands. Journal of Geophysical Research, 2010, 115, .	3.3	45

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55	Magma storage conditions of the last eruption of Teide volcano (Canary Islands, Spain). Bulletin of Volcanology, 2010, 72, 381-395.	3.0	44
56	Origin and evolution of the Deception Island caldera (South Shetland Islands, Antarctica). Bulletin of Volcanology, 2013, 75, 1.	3.0	44
57	HASSET: a probability event tree tool to evaluate future volcanic scenarios using Bayesian inference. Bulletin of Volcanology, 2014, 76, 1.	3.0	44
58	Conditions favouring catastrophic landslides on Tenerife (Canary Islands). Terra Nova, 1999, 11, 106-111.	2.1	43
59	Volcano-structural analysis of La Garrotxa Volcanic Field (NE Iberia): Implications for the plumbing system. Tectonophysics, 2015, 642, 58-70.	2.2	43
60	The distribution of basaltic volcanism on Tenerife, Canary Islands: Implications on the origin and dynamics of the rift systems. Tectonophysics, 2010, 483, 310-326.	2.2	42
61	Magma mixing in alkaline magmas: An example from Tenerife, Canary Islands. Lithos, 1994, 32, 1-19.	1.4	41
62	Characterising unrest during the reawakening of the central volcanic complex on Tenerife, Canary Islands, 2004–2005, and implications for assessing hazards and risk mitigation. Journal of Volcanology and Geothermal Research, 2009, 182, 23-33.	2.1	41
63	Cooling rate variation in natural volcanic glasses from Tenerife, Canary Islands. Contributions To Mineralogy and Petrology, 1996, 125, 151-160.	3.1	40
64	The 0.57 Ma plinian eruption of the Granadilla Member, Tenerife (Canary Islands): an example of complexity in eruption dynamics and evolution. Journal of Volcanology and Geothermal Research, 2000, 103, 209-238.	2.1	40
65	Morphological and geological aspects related to large slope failures on oceanic islands. Geomorphology, 2004, 62, 143-158.	2.6	40
66	A GIS-based methodology for hazard mapping of small volume pyroclastic density currents. Natural Hazards, 2007, 41, 99-112.	3.4	39
67	Three-armed rifts or masked radial pattern of eruptive fissures? The intriguing case of El Hierro volcano (Canary Islands). Tectonophysics, 2015, 647-648, 33-47.	2.2	36
68	Pre-caldera Pyroclastic deposits of Deception Island (South Shetland Islands). Antarctic Science, 1990, 2, 345-352.	0.9	34
69	Deception Island (Bransfield Strait, Antarctica): an example of a volcanic caldera developed by extensional tectonics. Geological Society Special Publication, 1996, 110, 253-265.	1.3	34
70	Volcanic hazard assessment for the Canary Islands (Spain) using extreme value theory. Natural Hazards and Earth System Sciences, 2011, 11, 2741-2753.	3.6	34
71	Central vs flank eruptions at Teide–Pico Viejo twin stratovolcanoes (Tenerife, Canary Islands). Journal of Volcanology and Geothermal Research, 2009, 181, 47-60.	2.1	33
72	Electrical resistivity tomography revealing the internal structure of monogenetic volcanoes. Geophysical Research Letters, 2013, 40, 2544-2549.	4.0	33

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73	Deciphering the evolution of Deception Island's magmatic system. Scientific Reports, 2019, 9, 373.	3.3	33
74	Geology of the late Pliocene – Pleistocene Acoculco caldera complex, eastern Trans-Mexican Volcanic Belt (México). Journal of Maps, 2019, 15, 8-18.	2.0	33
75	Evaluation of morphometry-based dating of monogenetic volcanoes – a case study from Bandas del Sur, Tenerife (Canary Islands). Bulletin of Volcanology, 2013, 75, 1.	3.0	32
76	Stress Controls of Monogenetic Volcanism: A Review. Frontiers in Earth Science, 2016, 4, .	1.8	32
77	Welding and rheomorphism of phonolitic fallout deposits from the Las Cañadas caldera, Tenerife, Canary Islands. Bulletin of the Geological Society of America, 2002, 114, 883-895.	3.3	31
78	Temporal evolution of flow conditions in sustained magmatic explosive eruptions. Journal of Volcanology and Geothermal Research, 2005, 143, 153-172.	2.1	30
79	3D Attenuation Tomography of the Volcanic Island of Tenerife (Canary Islands). Surveys in Geophysics, 2015, 36, 693-716.	4.6	30
80	Multiparametric statistical investigation of seismicity occurred at El Hierro (Canary Islands) from 2011 to 2014. Tectonophysics, 2016, 672-673, 121-128.	2.2	30
81	Mechanical relationship between catastrophic volcanic landslides and caldera collapses. Geophysical Research Letters, 2000, 27, 2393-2396.	4.0	29
82	Investigation of the inner structure of La Crosa de Sant Dalmai maar (Catalan Volcanic Zone, Spain). Journal of Volcanology and Geothermal Research, 2012, 247-248, 37-48.	2.1	29
83	Formation of U-depleted rhyolite from a basanite at El Hierro, Canary Islands. Contributions To Mineralogy and Petrology, 2013, 165, 601-622.	3.1	29
84	Volcanic stratigraphy of the Quaternary La Garrotxa Volcanic Field (north-east Iberian Peninsula). Journal of Quaternary Science, 2014, 29, 547-560.	2.1	29
85	Estimating building exposure and impact to volcanic hazards in Icod de los Vinos, Tenerife (Canary) Tj ETQq1 1 0.784314 rgBTJ /Overl	2.1	28
86	Time-dependent chamber and vent conditions during explosive caldera-forming eruptions. Earth and Planetary Science Letters, 2009, 280, 246-253.	4.4	28
87	The 1970 eruption on Deception Island (Antarctica): eruptive dynamics and implications for volcanic hazards. Journal of the Geological Society, 2014, 171, 765-778.	2.1	28
88	Stress barriers controlling lateral migration of magma revealed by seismic tomography. Scientific Reports, 2017, 7, 40757.	3.3	28
89	Volcanic tremors at Deception Island (South Shetland Islands, Antarctica). Journal of Volcanology and Geothermal Research, 1992, 53, 89-102.	2.1	26
90	Analysis of the Temporal Occurrence of Seismicity at Deception Island (Antarctica). A Nonlinear Approach. Pure and Applied Geophysics, 1997, 149, 553-574.	1.9	26

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91	The influence of conduit geometry on the dynamics of caldera-forming eruptions. Earth and Planetary Science Letters, 2000, 179, 53-61.	4.4	26
92	Eruptive scenarios of phonolitic volcanism at Teide-Pico Viejo volcanic complex (Tenerife, Canary) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	8.0	26
93	Phreatomagmatic volcanism in complex hydrogeological environments: La Crosa de Sant Dalmai maar (Catalan Volcanic Zone, NE Spain). , 2014, 10, 170-184.		26
94	Volcanic tremors: Good indicators of change in plumbing systems during volcanic eruptions. Journal of Volcanology and Geothermal Research, 2014, 273, 33-40.	2.1	26
95	Comment on "the Canary Islands: an example of structural control on the growth of large oceanic-island volcanoes" by J.C. Carracedo. Journal of Volcanology and Geothermal Research, 1996, 72, 143-149.	2.1	24
96	Origin and implications of mafic xenoliths associated with Cenozoic extension-related volcanism in the Viñalencia Trough, NE Spain. Mineralogy and Petrology, 1999, 65, 113-139.	1.1	24
97	Large landslides triggered by caldera collapse events in Tenerife, Canary Islands. Physics and Chemistry of the Earth, 1999, 24, 921-924.	0.6	24
98	Graben structure in the Las Cañadas edifice (Tenerife, Canary Islands): implications for active degassing and insights on the caldera formation. Journal of Volcanology and Geothermal Research, 2005, 144, 73-87.	2.1	24
99	Volcanic signatures in time gravity variations during the volcanic unrest on El Hierro (Canary) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 22	3.4	24
100	Short-term volcanic hazard assessment through Bayesian inference: retrospective application to the Pinatubo 1991 volcanic crisis. Journal of Volcanology and Geothermal Research, 2015, 290, 1-11.	2.1	24
101	Las Cañadas caldera, Tenerife, Canary Islands: A review, or the end of a long volcanological controversy. Earth-Science Reviews, 2019, 196, 102889.	9.1	24
102	Attenuation and source parameters at Deception Island (South Shetland Islands, Antarctica). Pure and Applied Geophysics, 1995, 144, 229-250.	1.9	23
103	The 72 ka subplinian eruption of Montaña Blanca, Tenerife. Bulletin of Volcanology, 1995, 57, 337-355.	3.0	23
104	Genesis of crystal-rich volcanoclastic facies in the Permian red beds of the Central Pyrenees (NE) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	2.1	23
105	Aerodynamics of stratovolcanoes during multiphase processes. Journal of Geophysical Research, 2012, 117, .	3.3	23
106	Solid modeling techniques to build 3D finite element models of volcanic systems: An example from the Rabaul Caldera system, Papua New Guinea. Computers and Geosciences, 2013, 52, 325-333.	4.2	23
107	Stratigraphy, sedimentology and eruptive mechanisms in the tuff cone of El Golfo (Lanzarote, Canary) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 22	3.0	23
108	Structural control of monogenetic volcanism in the Garrotxa volcanic field (Northeastern Spain) from gravity and self-potential measurements. Bulletin of Volcanology, 2014, 76, 1.	3.0	23



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109	Susceptibility of intrusion-related landslides at volcanic islands: the Stromboli case study. <i>Landslides</i> , 2018, 15, 21-29.	5.4	23
110	Chapter 3 The Use of Lithic Clast Distributions in Pyroclastic Deposits to Understand Pre- and Syn-Caldera Collapse Processes: A Case Study of the Abrigo Ignimbrite, Tenerife, Canary Islands. <i>Developments in Volcanology</i> , 2008, 10, 97-142.	0.5	22
111	Applying Benford's law to volcanology. <i>Geology</i> , 2012, 40, 327-330.	4.4	22
112	Eruptive shearing of tube pumice: pure and simple. <i>Solid Earth</i> , 2016, 7, 1383-1393.	2.8	22
113	Stress fields controlling the formation of nested and overlapping calderas: Implications for the understanding of caldera unrest. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 181, 185-195.	2.1	21
114	Geophysical exploration on the subsurface geology of La Garrotxa monogenetic volcanic field (NE Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	1.8	21
115	Volcano-structure of El Hierro (Canary Islands). <i>Journal of Maps</i> , 2016, 12, 43-52.	2.0	21
116	First-order estimate of the Canary Islands plate-scale stress field: Implications for volcanic hazard assessment. <i>Tectonophysics</i> , 2016, 679, 125-139.	2.2	21
117	Caldera-like structures related to Permo-Carboniferous volcanism of the Catalan Pyrenees (NE Spain). <i>Journal of Volcanology and Geothermal Research</i> , 1991, 45, 173-186.	2.1	20
118	Using the Fisherâ€“Shannon method to characterize continuous seismic signal during volcanic eruptions: application to 2011â€“2012 El Hierro (Canary Islands) eruption. <i>Terra Nova</i> , 2014, 26, 425-429.	2.1	20
119	Dust storms, volcanic ash hurricanes, and turbidity currents: physical similarities and differences with emphasis on flow temperature. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	1.3	20
120	Eruptive chronology of the Acoculco caldera complex â€“ A resurgent caldera in the eastern Trans-Mexican Volcanic Belt (MÃ©xico). <i>Journal of South American Earth Sciences</i> , 2020, 98, 102412.	1.4	20
121	Stratigraphy and Kâ€“Ar ages of the Diego HernÃ¡ndez wall and their significance on the Las CaÃ±adas Caldera formation (Tenerife, Canary Islands). <i>Terra Nova</i> , 1990, 2, 148-153.	2.1	19
122	Alteration processes of the Roque Nublo ignimbrites (Gran Canaria, Canary Islands). <i>Journal of Volcanology and Geothermal Research</i> , 1995, 65, 191-204.	2.1	19
123	The occurrence and origin of prominent massive, pumice-rich ignimbrite lobes within the Late Pleistocene Abrigo Ignimbrite, Tenerife, Canary Islands. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 139, 271-293.	2.1	19
124	Applying Fractal Dimensions and Energy-Budget Analysis to Characterize Fracturing Processes During Magma Migration and Eruption: 2011â€“2012 El Hierro (Canary Islands) Submarine Eruption. <i>Surveys in Geophysics</i> , 2014, 35, 1023-1044.	4.6	19
125	Probabilistic approach to decision-making under uncertainty during volcanic crises: retrospective application to the El Hierro (Spain) 2011 volcanic crisis. <i>Natural Hazards</i> , 2015, 76, 979-998.	3.4	19
126	Assessing qualitative long-term volcanic hazards at Lanzarote Island (Canary Islands). <i>Natural Hazards and Earth System Sciences</i> , 2017, 17, 1145-1157.	3.6	19



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127	Geotourism at the Natural Park of La Garrotxa Volcanic Zone (Catalonia, Spain): Impact, Viability, and Sustainability. <i>Geosciences</i> (Switzerland), 2018, 8, 295.	2.2	19
128	A genetic classification of collapse calderas based on field studies, and analogue and theoretical modelling. , 0, , 249-266.		19
129	Statistical data analysis of the CCDB (Collapse Caldera Database): Insights on the formation of caldera systems. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 198, 241-252.	2.1	18
130	Erupciones hidromagmáticas en el volcanismo cuaternario de Olot (Girona). <i>Estudios Geológicos</i> , 1987, 43, 31.	0.2	18
131	Numerical modeling of magma withdrawal during explosive caldera-forming eruptions. <i>Journal of Geophysical Research</i> , 2001, 106, 16163-16175.	3.3	16
132	Stress Field Control during Large Caldera-Forming Eruptions. <i>Frontiers in Earth Science</i> , 2016, 4, .	1.8	16
133	Reconstructing the eruptive history of a monogenetic volcano through a combination of fieldwork and geophysical surveys: the example of Puig de l'Àrdri (Garrotxa Volcanic Field). <i>Journal of the Geological Society</i> , 2016, 173, 875-888.	2.1	16
134	Impact of volcanism on the sedimentary record of the Neuquén rift basin, Argentina: towards a cause and effect model. <i>Basin Research</i> , 2018, 30, 311-335.	2.7	16
135	Vertical and lateral collapses on Tenerife (Canary Islands) and other volcanic ocean islands: Comment and Reply. <i>Geology</i> , 1998, 26, 861.	4.4	15
136	Pyroclastic density currents from Teide-Pico Viejo (Tenerife, Canary Islands): implications for hazard assessment. <i>Terra Nova</i> , 2011, 23, 220-224.	2.1	15
137	Basaltic ignimbrites in monogenetic volcanism: the example of La Garrotxa volcanic field. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	3.0	15
138	A numerical model for temporal variations during explosive central vent eruptions. <i>Journal of Geophysical Research</i> , 1998, 103, 20883-20899.	3.3	14
139	Conduit-vent structures and related proximal deposits in the Las Cañadas caldera, Tenerife, Canary Islands. <i>Bulletin of Volcanology</i> , 2006, 69, 217-231.	3.0	14
140	Instantaneous dynamic pressure effects on the behaviour of lithic boulders in pyroclastic flows: the Abrigo Ignimbrite, Tenerife, Canary Islands. <i>Bulletin of Volcanology</i> , 2006, 69, 265-279.	3.0	14
141	Multifractal investigation of continuous seismic signal recorded at El Hierro volcano (Canary) <a href="#">Tj ETQq1 1 0.784314,rgBT /Overlock 10</a>	2.2	14
142	Hazard assessment at the Quaternary La Garrotxa Volcanic Field (NE Iberia). <i>Natural Hazards</i> , 2015, 78, 1349-1367.	3.4	14
143	A scale for ranking volcanoes by risk. <i>Bulletin of Volcanology</i> , 2016, 78, 1.	3.0	14
144	Causes of complexity in a fallout dominated plinian eruption sequence: 312 ka Fasnía Member, Diego Hernández Formation, Tenerife, Spain. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 345, 21-45.	2.1	14

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145	Topographical controls on small-volume pyroclastic flows. <i>Sedimentology</i> , 2019, 66, 2297-2317.	3.1	14
146	New late Middle to early Late Ordovician U–Pb zircon ages of extension-related felsic volcanic rocks in the Eastern Pyrenees (NE Iberia): tectonic implications. <i>Geological Magazine</i> , 2019, 156, 1783-1792.	1.5	14
147	Dynamics of caldera collapse during the Coranzul eruption (6.6 Ma) (Central Andes, Argentina). <i>Journal of Volcanology and Geothermal Research</i> , 2019, 374, 1-12.	2.1	14
148	Formation of inversely graded basal layers in ignimbrites by progressive aggradation. <i>Journal of Volcanology and Geothermal Research</i> , 2001, 111, 25-33.	2.1	13
149	Stratigraphy and structure of the Cañas Dulces caldera (Costa Rica). <i>Bulletin of the Geological Society of America</i> , 2014, 126, 1465-1480.	3.3	13
150	A GIS-based methodology for the estimation of potential volcanic damage and its application to Tenerife Island, Spain. <i>Journal of Volcanology and Geothermal Research</i> , 2014, 278-279, 40-58.	2.1	13
151	Structure of the Pliocene Camp dels Ninots maar-diatreme (Catalan Volcanic Zone, NE Spain). <i>Bulletin of Volcanology</i> , 2015, 77, 1.	3.0	12
152	The Borinquen geothermal system (Cañas Dulces caldera, Costa Rica). <i>Geothermics</i> , 2016, 64, 410-425.	3.4	12
153	Geochronological constraints on the evolution of El Hierro (Canary Islands). <i>Journal of African Earth Sciences</i> , 2016, 113, 88-94.	2.0	12
154	Tenerife, a complex end member of basaltic oceanic island volcanoes, with explosive polygenetic phonolitic calderas, and phonolitic-basaltic stratovolcanoes. <i>Earth-Science Reviews</i> , 2022, 230, 103990.	9.1	12
155	The 5,660 BP Boquerón explosive eruption, Teide–Pico Viejo complex, Tenerife. <i>Bulletin of Volcanology</i> , 2012, 74, 2037-2050.	3.0	11
156	Explosive felsic volcanism on El Hierro (Canary Islands). <i>Bulletin of Volcanology</i> , 2014, 76, 1.	3.0	11
157	Comment on “A giant landslide on the north flank of Tenerife, Canary Islands” by A. B. Watts and D. G. Masson. <i>Journal of Geophysical Research</i> , 1998, 103, 9945-9947.	3.3	10
158	Caldera events in a rift depocentre: an example from the Jurassic Neuquén basin, Argentina. <i>Journal of the Geological Society</i> , 2013, 170, 571-584.	2.1	10
159	Evaluating Topographic Effects on Ground Deformation: Insights from Finite Element Modeling. <i>Surveys in Geophysics</i> , 2015, 36, 513-548.	4.6	10
160	Modeling magmatic accumulations in the upper crust: Metamorphic implications for the country rock. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 319, 78-92.	2.1	10
161	Ignimbrites of the Roque Nublo group, Gran Canaria, Canary Islands. <i>Bulletin of Volcanology</i> , 1997, 58, 647-654.	3.0	9
162	Studying monogenetic volcanoes with a terrestrial laser scanner: case study at Croscat volcano (Garrotxa Volcanic Field, Spain). <i>Bulletin of Volcanology</i> , 2015, 77, 1.	3.0	9

#	ARTICLE	IF	CITATIONS
163	ST-HASSET for volcanic hazard assessment: A Python tool for evaluating the evolution of unrest indicators. Computers and Geosciences, 2016, 93, 77-87.	4.2	9
164	Driving magma to the surface: The 2011â€“2012 El Hierro Volcanic Eruption. Geochemistry, Geophysics, Geosystems, 2017, 18, 3165-3184.	2.5	9
165	Imaging the complex geometry of a magma reservoir using FEM-based linear inverse modeling of InSAR data: application to Rabaul Caldera, Papua New Guinea. Geophysical Journal International, 2017, 209, 1746-1760.	2.4	9
166	Gravimetric study of the shallow basaltic plumbing system of Tenerife, Canary Islands. Physics of the Earth and Planetary Interiors, 2019, 297, 106319.	1.9	9
167	Lamprophyre-Carbonatite Magma Mingling and Subsidius Processes as Key Controls on Critical Element Concentration in Carbonatitesâ€”The Bonga Complex (Angola). Minerals (Basel, Switzerland), 2019, 9, 601.	2.0	9
168	Identification, cataloguing and preservation of outcrops of geological interest in monogenetic volcanic fields: the case of La Garrotxa Volcanic Zone Natural Park. Geoheritage, 2020, 12, 1.	2.8	9
169	Controls of magma chamber zonation on eruption dynamics and deposits stratigraphy: The case of El Palomar fallout succession (Tenerife, Canary Islands). Journal of Volcanology and Geothermal Research, 2020, 399, 106908.	2.1	9
170	Characteristics and emplacement mechanisms of the CoranzulÃ—ignimbrites (Central Andes). Sedimentary Geology, 2020, 405, 105699.	2.1	9
171	Stratigraphic correlation of Holocene phonolitic explosive episodes of the Teideâ€”Pico Viejo Volcanic Complex, Tenerife. Journal of the Geological Society, 2014, 171, 375-387.	2.1	8
172	Fractal Analysis of Enclaves as a New Tool for Estimating Rheological Properties of Magmas During Mixing: The Case of MonteÃ—a Reventada (Tenerife, Canary Islands). Pure and Applied Geophysics, 2015, 172, 1803-1814.	1.9	8
173	Nb and REE Distribution in the Monte Verde Carbonatiteâ€”Alkalineâ€”Aegaitic Complex (Angola). Minerals (Basel, Switzerland), 2020, 10, 5.	2.0	8
174	Four decades of geophysical research on Iberia and adjacent margins. Earth-Science Reviews, 2021, 222, 103841.	9.1	8
175	Construction and degradation of a broad volcanic massif: The VicuÃ—a Pampa volcanic complex, southern Central Andes, NW Argentina. Bulletin of the Geological Society of America, 2017, 129, 750-766.	3.3	7
176	Early signs of geodynamic activity before the 2011â€“2012 El Hierro eruption. Journal of Geodynamics, 2017, 104, 1-14.	1.6	7
177	The Deterioration of Geoheritage in the Central Spanish Volcanic Region by Open-Pit Mining. Geoheritage, 2019, 11, 1903-1917.	2.8	7
178	Making a qualitative volcanic-hazards map by combining simulated scenarios: An example for San Miguel Volcano (El Salvador). Journal of Volcanology and Geothermal Research, 2020, 395, 106837.	2.1	7
179	Volcanotectonics: the tectonics and physics of volcanoes and their eruption mechanics. Bulletin of Volcanology, 2022, 84, .	3.0	7
180	Thermoremanence in red sandstone clasts and emplacement temperature of a quaternary pyroclastic deposit (Catalan Volcanic Zone, ne Spain). Studia Geophysica Et Geodaetica, 1993, 37, 401-414.	0.5	6

#	ARTICLE	IF	CITATIONS
181	A fractional-step finite-element method for the Navier–Stokes equations applied to magma-chamber withdrawal. <i>Computers and Geosciences</i> , 1999, 25, 263-275.	4.2	6
182	Anticipating volcanic eruptions. , 2005, , 90-120.		6
183	A new Volcanic management Risk Database design (VERDI): Application to El Hierro Island (Canary) Tj ETQq1 1 0.784314 rgBT /Overlock 2.1	2.1	6
184	Structural interpretation of El Hierro (Canary Islands) rifts system from gravity inversion modelling. <i>Tectonophysics</i> , 2017, 712-713, 72-81.	2.2	6
185	Spatio-temporal hazard estimation in San Miguel volcano, El Salvador. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 358, 171-183.	2.1	6
186	Geomorphological evolution and chronology of the eruptive activity of the Columba and Cuevas volcanoes (Campo de Calatrava Volcanic Field, Ciudad Real, Central Spain). <i>Geomorphology</i> , 2019, 336, 52-64.	2.6	6
187	Title is missing!. <i>Estudios Geologicos</i> , 1987, 43, .	0.2	6
188	Stratigraphy and eruptive history of the complex Puig de La Banya del Boc monogenetic volcano, Garrotxa Volcanic Field. <i>Journal of Volcanology and Geothermal Research</i> , 2022, 423, 107460.	2.1	6
189	Pre-Eruptive Conditions and Dynamics Recorded in Banded Pumices from the El Abrigo Caldera-Forming Eruption (Tenerife, Canary Islands). <i>Journal of Petrology</i> , 2022, 63, .	2.8	6
190	Subsidence and current strain patterns on Tenerife Island (Canary Archipelago, Spain) derived from continuous GNSS time series (2008–2015). <i>Journal of Volcanology and Geothermal Research</i> , 2016, 327, 240-248.	2.1	5
191	The historical case of Paricutin volcano (Michoacán, México): challenges of simulating lava flows on a gentle slope during a long-lasting eruption. <i>Natural Hazards</i> , 2021, 107, 809-829.	3.4	5
192	Graben type calderas: The Bolaños case, Sierra Madre Occidental, Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 417, 107315.	2.1	5
193	Basement and cover architecture in the Central Pyrenees constrained by gravity data. <i>International Journal of Earth Sciences</i> , 2022, 111, 641-658.	1.8	5
194	Resolving problems with the origin of Las Cañadas caldera (Tenerife, Canary Islands): Los Roques de García Formation—Part of a major debris avalanche or an in situ, stratified, edifice-building succession?. , 2010, , .		4
195	The distribution of basaltic volcanism on Tenerife, Canary Islands: Implications on the origin and dynamics of the rift system, reply to the comment by Carracedo et al.. <i>Tectonophysics</i> , 2011, 503, 234-238.	2.2	4
196	A retrospective study of the pre-eruptive unrest on El Hierro (Canary Islands): implications of seismicity and deformation in the short-term volcanic hazard assessment. <i>Natural Hazards and Earth System Sciences</i> , 2018, 18, 1759-1770.	3.6	4
197	The Neogene-Quaternary Alkaline Volcanism of Iberia. <i>Regional Geology Reviews</i> , 2019, , 167-182.	1.2	4
198	Pre-eruptive conditions at satellite vent eruptions at Teide-Pico Viejo complex (Tenerife, Canary) Tj ETQq0 0 0 rgBT /Overlock 1.4 10 Tf 50 62	1.4	4

#	ARTICLE	IF	CITATIONS
199	Cascading Effects of Extreme Geohazards on Tenerife (Canary Islands). Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022294.	3.4	4
200	Eruptive evolution and 3D geological modeling of Camp dels Ninots maar-diatreme (Catalonia) through continuous intra-crater drill coring. Journal of Volcanology and Geothermal Research, 2021, 419, 107369.	2.1	4
201	Enhancing Safety in a Volcano's Shadow. Eos, 2016, 97, .	0.1	4
202	Gravity data on the Central Pyrenees: a step forward to help a better understanding of the Pyrenean structures. Journal of Maps, 2021, 17, 750-759.	2.0	4
203	Preliminary assessment for the use of VORIS as a tool for rapid lava flow simulation at Goma Volcano Observatory, Democratic Republic of the Congo. Natural Hazards and Earth System Sciences, 2015, 15, 2391-2400.	3.6	3
204	Remarkable variability in dyke features at the Vicuña Pampa Volcanic Complex, Southern Central Andes. Terra Nova, 2017, 29, 224-232.	2.1	3
205	Probabilistic E-tools for Hazard Assessment and Risk Management. Advances in Volcanology, 2017, , 47-61.	1.1	3
206	Assessing Volcanic Hazard. , 2017, , .		2
207	Estimating exposure around San Miguel Volcano, El Salvador. Journal of Volcanology and Geothermal Research, 2019, 386, 106675.	2.1	2
208	Gravity Modelling of the Ramados Caldera (Argentinean Puna, Central Andes). , 1995, , .		2
209	Petrophysical Characterization of Non-Magnetic Granites; Density and Magnetic Susceptibility Relationships. Geosciences (Switzerland), 2022, 12, 240.	2.2	2
210	Pre-eruptive conditions of the phonolitic magma from the El Abrigo caldera-forming eruption (Las Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2008, 3, 012013.	0.3	1
211	Improving and Facilitating Research on Collapse Calderas. Eos, 2011, 92, 53-54.	0.1	1
212	Geological Setting of La Garrotxa Volcanic Field. Volcanic Tourist Destinations, 2017, , 27-43.	0.2	1
213	Proposal for an initial development strategy for the Borinquen geothermal zone (Cañas Dulces, Costa Tj ETQq1 1,0,784314 rgBT /Ove	1,0,784314	1
214	The Volcanic Hazards of Jan Mayen Island (North-Atlantic). Frontiers in Earth Science, 2022, 10, .	1.8	1
215	Towards a Digital Twin of the Earth System: Geo-Soft-CoRe, a Geoscientific Software & Code Repository. Frontiers in Earth Science, 2022, 10, .	1.8	1
216	Geosites and Geoitineraries. Volcanic Tourist Destinations, 2017, , 69-83.	0.2	0

#	ARTICLE	IF	CITATIONS
217	Using Statistics to Quantify and Communicate Uncertainty During Volcanic Crises. Advances in Volcanology, 2017, , 571-583.	1.1	0
218	Volcano-Stratigraphy of La Garrotxa Monogenetic Volcanic Field, Northeastern Spain. Springer Geology, 2014, , 1213-1216.	0.3	0