

Piergiorgio Scarlato

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141
papers

3,719
citations

37
h-index

52
g-index

157
ext. papers

4,484
ext. citations

3.9
avg, IF

5.36
L-index

#	Paper	IF	Citations
141	Conduit processes during the July-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	2.8	137
140	Solubility of H ₂ O and CO ₂ in ultrapotassic melts at 1200 and 1250 °C and pressure from 50 to 500 MPa. <i>American Mineralogist</i> , 2009 , 94, 105-120	2.9	103
139	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	4.9	99
138	Dependence of clinopyroxene composition on cooling rate in basaltic magmas: Implications for thermobarometry. <i>Lithos</i> , 2010 , 118, 302-312	2.9	87
137	Magma-carbonate interaction: An experimental study on ultrapotassic rocks from Alban Hills (Central Italy). <i>Lithos</i> , 2008 , 101, 397-415	2.9	85
136	A new test for equilibrium based on clinopyroxene-melt pairs: Clues on the solidification temperatures of Etnean alkaline melts at post-eruptive conditions. <i>Chemical Geology</i> , 2013 , 352, 92-100	4.2	84
135	Carbonate assimilation in magmas: A reappraisal based on experimental petrology. <i>Lithos</i> , 2010 , 114, 503-514	2.9	84
134	Time-dependent geochemistry of clinopyroxene from the Alban Hills (Central Italy): Clues to the source and evolution of ultrapotassic magmas. <i>Lithos</i> , 2006 , 86, 330-346	2.9	84
133	High-speed imaging of Strombolian explosions: The ejection velocity of pyroclasts. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	82
132	Eruptive history and petrologic evolution of the Albano multiple maar (Alban Hills, Central Italy). <i>Bulletin of Volcanology</i> , 2006 , 68, 567-591	2.4	79
131	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	2.4	70
130	CO ₂ -driven large mafic explosive eruptions: the Pozzolane Rosse case study from the Colli Albani Volcanic District (Italy). <i>Bulletin of Volcanology</i> , 2011 , 73, 241-256	2.4	69
129	Aggregation-dominated ash settling from the Eyjafjallajökull volcanic cloud illuminated by field and laboratory high-speed imaging. <i>Geology</i> , 2011 , 39, 891-894	5	69
128	Sector-zoned clinopyroxene as a recorder of magma history, eruption triggers, and ascent rates. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 251, 265-283	5.5	66
127	Plagioclase-melt (dis)equilibrium due to cooling dynamics: Implications for thermometry, barometry and hygrometry. <i>Lithos</i> , 2011 , 125, 221-235	2.9	66
126	An analytical model for gas overpressure in slug-driven explosions: Insights into Strombolian volcanic eruptions. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		64
125	Experimental solidification of an andesitic melt by cooling. <i>Chemical Geology</i> , 2011 , 283, 261-273	4.2	63

124	From field geology to earthquake simulation: a new state-of-the-art tool to investigate rock friction during the seismic cycle (SHIVA). <i>Rendiconti Lincei</i> , 2010 , 21, 95-114	1.7	62
123	Sulfur diffusion in basaltic melts. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 5061-5069	5.5	60
122	The partitioning of trace elements between clinopyroxene and trachybasaltic melt during rapid cooling and crystal growth. <i>Contributions To Mineralogy and Petrology</i> , 2013 , 166, 1633-1654	3.5	58
121	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	2.4	53
120	Reconstruction of magmatic variables governing recent Etnean eruptions: Constraints from mineral chemistry and $\text{P-H}_2\text{O}$ modeling. <i>Lithos</i> , 2015 , 212-215, 311-320	2.9	51
119	Understanding shallow magma emplacement at volcanoes: Orthogonal feeder dikes during the 2002-2003 Stromboli (Italy) eruption. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	51
118	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	3.6	48
117	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	2.8	48
116	The control of cooling rate on titanomagnetite composition: implications for a geospeedometry model applicable to alkaline rocks from Mt. Etna volcano. <i>Contributions To Mineralogy and Petrology</i> , 2013 , 165, 457-475	3.5	47
115	A novel and versatile apparatus for brittle rock deformation. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014 , 66, 114-123	6	47
114	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	4.9	46
113	An improved clinopyroxene-based hygrometer for Etnean magmas and implications for eruption triggering mechanisms. <i>American Mineralogist</i> , 2016 , 101, 2774-2777	2.9	42
112	Increase in radon emission due to rock failure: An experimental study. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	41
111	Cooling history of a dike as revealed by mineral chemistry: A case study from Mt. Etna volcano. <i>Chemical Geology</i> , 2011 , 288, 39-52	4.2	40
110	Integrating puffing and explosions in a general scheme for Strombolian-style activity. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 1860-1875	3.6	39
109	Viscous plugging can enhance and modulate explosivity of strombolian eruptions. <i>Earth and Planetary Science Letters</i> , 2015 , 423, 210-218	5.3	39
108	An integrated P-T-H ₂ O-lattice strain model to quantify the role of clinopyroxene fractionation on REE+Y and HFSE patterns of mafic alkaline magmas: Application to eruptions at Mt. Etna. <i>Earth-Science Reviews</i> , 2018 , 185, 32-56	10.2	39
107	A K-feldspar liquid hygrometer specific to alkaline differentiated magmas. <i>Chemical Geology</i> , 2015 , 392, 1-8	4.2	38

106	Volcanic edifice weakening via devolatilization reactions. <i>Geophysical Journal International</i> , 2011 , 186, 1073-1077	2.6	38
105	Natural Gas Hazard (CO ₂ , 222Rn) within a Quiescent Volcanic Region and Its Relations with Tectonics: The Case of the Ciampino-Marino Area, Alban Hills Volcano, Italy. <i>Natural Hazards</i> , 2002 , 27, 257-287	3	38
104	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	4.3	36
103	The cooling kinetics of plagioclase feldspar as revealed by electron-microprobe mapping. <i>American Mineralogist</i> , 2014 , 99, 898-907	2.9	34
102	The role of cooling rate in the origin of high temperature phases at the chilled margin of magmatic intrusions. <i>Chemical Geology</i> , 2012 , 322-323, 28-46	4.2	34
101	Petrology of the most recent ultrapotassic magmas from the Roman Province (Central Italy). <i>Lithos</i> , 2011 , 127, 298-308	2.9	33
100	Clinopyroxene and titanomagnetite cation redistributions at Mt. Etna volcano (Sicily, Italy): Footprints of the final solidification history of lava fountains and lava flows. <i>Chemical Geology</i> , 2015 , 406, 45-54	4.2	32
99	Stronger or longer: Discriminating between Hawaiian and Strombolian eruption styles. <i>Geology</i> , 2016 , 44, 163-166	5	30
98	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	3	29
97	Physical parameterization of Strombolian eruptions via experimentally-validated modeling of high-speed observations. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	29
96	Physical and Transport Property Variations Within Carbonate-Bearing Fault Zones: Insights From the Monte Maggio Fault (Central Italy). <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 4027-4042	3.6	27
95	A note on maar eruption energetics: current models and their application. <i>Bulletin of Volcanology</i> , 2010 , 72, 75-83	2.4	27
94	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	4.9	26
93	Trace element partitioning between clinopyroxene and trachy-phonolitic melts: A case study from the Campanian Ignimbrite (Campi Flegrei, Italy). <i>Lithos</i> , 2016 , 252-253, 160-172	2.9	26
92	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	2.4	26
91	The role of undercooling during clinopyroxene growth in trachybasaltic magmas: Insights on magma decompression and cooling at Mt. Etna volcano. <i>Geochimica Et Cosmochimica Acta</i> , 2020 , 268, 258-276	5.5	26
90	Deep Magma Storage Revealed by Multi-Method Elemental Mapping of Clinopyroxene Megacrysts at Stromboli Volcano. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	25
89	Viscosity of high-K basalt from the 5th April 2003 Stromboli paroxysmal explosion. <i>Chemical Geology</i> , 2009 , 260, 278-285	4.2	25

88	Recycled ejecta modulating Strombolian explosions. <i>Bulletin of Volcanology</i> , 2016 , 78, 1	2.4	24
87	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	4.9	24
86	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	2.4	23
85	In-flight dynamics of volcanic ballistic projectiles. <i>Reviews of Geophysics</i> , 2017 , 55, 675-718	23.1	23
84	Experimental and analytical modeling of basaltic ash explosions at Mount Etna, Italy, 2001. <i>Journal of Geophysical Research</i> , 2004 , 109,		23
83	The effect of CO ₂ and H ₂ O on Etna and Fondo Riccio (Phlegrean Fields) liquid viscosity, glass transition temperature and heat capacity. <i>Chemical Geology</i> , 2014 , 377, 72-86	4.2	22
82	Volcanic edifice weakening via decarbonation: A self-limiting process?. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	22
81	Geochemical changes at the Bagni di Triponzo thermal spring during the Umbria-Marche 1997-1998 seismic sequence. <i>Journal of Seismology</i> , 2000 , 4, 567-587	1.5	22
80	Mush cannibalism and disruption recorded by clinopyroxene phenocrysts at Stromboli volcano: New insights from recent 2003-2017 activity. <i>Lithos</i> , 2020 , 360-361, 105440	2.9	21
79	"Explosive volcanic activity at Mt. Yasur: A characterization of the acoustic events (9-12th July 2011)". <i>Journal of Volcanology and Geothermal Research</i> , 2016 , 322, 175-183	2.8	21
78	The 2013 eruption of Chaparrastique volcano (El Salvador): Effects of magma storage, mixing, and decompression. <i>Chemical Geology</i> , 2017 , 448, 110-122	4.2	21
77	A general viscosity model of Campi Flegrei (Italy) melts. <i>Chemical Geology</i> , 2011 , 290, 50-59	4.2	21
76	Water diffusion in natural potassic melts. <i>Geological Society Special Publication</i> , 2003 , 213, 53-62	1.7	21
75	Crystallization kinetics of clinopyroxene and titanomagnetite growing from a trachybasaltic melt: New insights from isothermal time-series experiments. <i>Chemical Geology</i> , 2019 , 510, 113-129	4.2	21
74	Effect of glass on the frictional behavior of basalts at seismic slip rates. <i>Geophysical Research Letters</i> , 2014 , 41, 348-355	4.9	20
73	Decarbonation and thermal microcracking under magmatic P-T-f CO ₂ conditions: the role of skarn substrata in promoting volcanic instability. <i>Geophysical Journal International</i> , 2013 , 195, 369-380	2.6	20
72	The effect of H ₂ O on the viscosity of K-trachytic melts at magmatic temperatures. <i>Chemical Geology</i> , 2006 , 235, 124-137	4.2	20
71	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	3.6	19

70	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	3.6	19
69	Heterogeneous nucleation mechanisms and formation of metastable phase assemblages induced by different crystalline seeds in a rapidly cooled andesitic melt. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 1624-1628	3.9	19
68	The role of natural solidification paths on REE partitioning between clinopyroxene and melt. <i>Bulletin of Volcanology</i> , 2014 , 76, 1	2.4	18
67	High-speed imaging of Strombolian eruptions: Gas-pyroclast dynamics in initial volcanic jets. <i>Geophysical Research Letters</i> , 2015 , 42, 6253-6260	4.9	18
66	New petrological constraints on the last eruptive phase of the Sabatini Volcanic District (central Italy): Clues from mineralogy, geochemistry, and SrNd isotopes. <i>Lithos</i> , 2014 , 205, 28-38	2.9	17
65	Deciphering lava flow post-eruption differentiation processes by means of geochemical and isotopic variations: A case study from Mt. Etna volcano. <i>Lithos</i> , 2013 , 162-163, 115-127	2.9	17
64	Electrical conductivity of a phonotephrite from Mt. Vesuvius: The importance of chemical composition on the electrical conductivity of silicate melts. <i>Chemical Geology</i> , 2008 , 256, 193-202	4.2	17
63	The 2011-2012 paroxysmal eruptions at Mt. Etna volcano: Insights on the vertically zoned plumbing system. <i>Journal of Volcanology and Geothermal Research</i> , 2018 , 349, 370-391	2.8	17
62	Friction and scale-dependent deformation processes of large experimental carbonate faults. <i>Journal of Structural Geology</i> , 2017 , 100, 12-23	3	15
61	Experimental constraints on the origin of pahoehoe fiammiform lavas at Mt. Etna Volcano (Sicily, Italy). <i>Bulletin of Volcanology</i> , 2015 , 77, 1	2.4	15
60	Physical properties of tuffs from a scientific borehole at Alban hills volcanic district (central Italy). <i>Tectonophysics</i> , 2009 , 471, 161-169	3.1	15
59	Advances in the study of volcanic ash. <i>Eos</i> , 2007 , 88, 253-256	1.5	15
58	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	5.3	15
57	Olivine compositional changes in primitive magmatic skarn environments: A reassessment of divalent cation partitioning models to quantify the effect of carbonate assimilation. <i>Lithos</i> , 2018 , 316-317, 104-121	2.9	14
56	Geochemical Monitoring System II prototype (GMS II) installation at the Acqua Difesa Well, within the Etna region: first data during the 1999 volcanic crisis. <i>Journal of Volcanology and Geothermal Research</i> , 2000 , 101, 273-306	2.8	14
55	Clinopyroxene-melt element partitioning during interaction between trachybasaltic magma and siliceous crust: Clues from quartzite enclaves at Mt. Etna volcano. <i>Lithos</i> , 2017 , 284-285, 447-461	2.9	13
54	Crystallization and partial melting of rhyolite and felsite rocks at Krafla volcano: A comparative approach based on mineral and glass chemistry of natural and experimental products. <i>Chemical Geology</i> , 2018 , 483, 603-618	4.2	13
53	High-pressure and high-temperature measurements of electrical conductivity in basaltic rocks from Mount Etna, Sicily, Italy. <i>Journal of Geophysical Research</i> , 2004 , 109,		13

52	Experimental simulations of volcanic ash resuspension by wind under the effects of atmospheric humidity. <i>Scientific Reports</i> , 2018 , 8, 14509	4.9	13
51	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	2.4	12
50	Evolution of textures, crystal size distributions and growth rates of plagioclase, clinopyroxene and spinel crystallized at variable cooling rates from a mid-ocean ridge basaltic melt. <i>Earth-Science Reviews</i> , 2020 , 204, 103165	10.2	12
49	Petrological constraints on the high-Mg basalts from Capo Marargiu (Sardinia, Italy): Evidence of cryptic amphibole fractionation in polybaric environments. <i>Journal of Volcanology and Geothermal Research</i> , 2018 , 349, 31-46	2.8	12
48	Mixed electrical conduction in a hydrous pantellerite glass. <i>Chemical Geology</i> , 2012 , 320-321, 140-146	4.2	12
47	Real-time setup to measure radon emission during rock deformation: implications for geochemical surveillance. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2015 , 4, 111-119	1.5	11
46	Contrasting radon background levels in volcanic settings: clues from ²²⁰ Rn activity concentrations measured during long-term deformation experiments. <i>Bulletin of Volcanology</i> , 2013 , 75, 1	2.4	11
45	Low pressure experiments in piston cylinder apparatus: Calibration of newly designed 25mm furnace assemblies to P=150MPa. <i>Chemical Geology</i> , 2012 , 312-313, 74-79	4.2	10
44	High-resolution geochemistry of volcanic ash highlights complex magma dynamics during the Eyjafjallajökull 2010 eruption. <i>American Mineralogist</i> , 2017 , 102, 1173-1186	2.9	10
43	Fracturing and healing of basaltic magmas during explosive volcanic eruptions. <i>Nature Geoscience</i> , 2021 , 14, 248-254	18.3	9
42	Impulsive Supply of Volatile-Rich Magmas in the Shallow Plumbing System of Mt. Etna Volcano. <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 482	2.4	9
41	Naturally Occurring Asbestos (NOA) in Granitoid Rocks, A Case Study from Sardinia (Italy). <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 442	2.4	9
40	Snapshots of primitive arc magma evolution recorded by clinopyroxene textural and compositional variations: The case of hybrid crystal-rich enclaves from Capo Marargiu Volcanic District (Sardinia, Italy). <i>American Mineralogist</i> , 2018 , 103, 899-910	2.9	9
39	Magma evolution at La Fossa volcano (Vulcano Island, Italy) in the last 1000 years: evidence from eruptive products and temperature gradient experiments. <i>Contributions To Mineralogy and Petrology</i> , 2020 , 175, 1	3.5	8
38	Polybaric/polythermal magma transport and trace element partitioning recorded in single crystals: A case study of a zoned clinopyroxene from Mt. Etna. <i>Lithos</i> , 2020 , 356-357, 105382	2.9	8
37	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	4.9	8
36	3-D high-speed imaging of volcanic bomb trajectory in basaltic explosive eruptions. <i>Geochemistry, Geophysics, Geosystems</i> , 2016 , 17, 4268-4275	3.6	7
35	Uncovering the eruptive patterns of the 2019 double-paroxysm eruption crisis of Stromboli volcano. <i>Nature Communications</i> , 2021 , 12, 4213	17.4	7

34	Modeling the Crystallization and Emplacement Conditions of a Basaltic Trachyandesitic Sill at Mt. Etna Volcano. <i>Minerals (Basel, Switzerland)</i> , 2019 , 9, 126	2.4	6
33	The imprint of thermally induced devolatilization phenomena on radon signal: implications for the geochemical survey in volcanic areas. <i>Geophysical Journal International</i> , 2017 , 211, 558-571	2.6	6
32	Insights into explosion dynamics and the production of ash at Stromboli from samples collected in real-time, October 2009 2013 ,		6
31	Advancements in Understanding the Radon Signal in Volcanic Areas: A Laboratory Approach Based on Rock Physicochemical Changes 2018 , 309-328		5
30	The Viscosity of Carbonate-Silicate Transitional Melts at Earth's Upper Mantle Pressures and Temperatures, Determined by the In Situ Falling-Sphere Technique. <i>Geophysical Monograph Series</i> , 2020 , 223-236	1.1	4
29	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	3.6	4
28	Explosive volcanic activity at Mt. Yasur: A characterization of the acoustic events (9 th July 2011). <i>Journal of Volcanology and Geothermal Research</i> , 2015 , 302, 24	2.8	4
27	A review of the lattice strain and electrostatic effects on trace element partitioning between clinopyroxene and melt: Applications to magmatic systems saturated with Tschermak-rich clinopyroxenes. <i>Earth-Science Reviews</i> , 2020 , 210, 103351	10.2	4
26	Petrological and geochemical modeling of magmas erupted at Vulcano Island in the period 548 ^{AD} : Quantitative constraints on the sub-volcanic architecture of the plumbing system. <i>Lithos</i> , 2020 , 374-375, 105715	2.9	4
25	The effect of CaO on the partitioning behavior of REE, Y and Sc between olivine and melt: Implications for basalt-carbonate interaction processes. <i>Lithos</i> , 2019 , 326-327, 327-340	2.9	4
24	The Viscosity and Atomic Structure of Volatile-Bearing Melilititic Melts at High Pressure and Temperature and the Transport of Deep Carbon. <i>Minerals (Basel, Switzerland)</i> , 2020 , 10, 267	2.4	3
23	Trace element behaviour during interaction between basalt and crustal rocks at 0.50.8 GPa: an experimental approach. <i>Open Geosciences</i> , 2010 , 2,	1.3	3
22	Real-time setup to record radon emission during rock deformation: implications for geochemical surveillance		3
21	Multi-parametric characterization of explosive activity at Batu Tara Volcano (Flores Sea, Indonesia). <i>Journal of Volcanology and Geothermal Research</i> , 2021 , 413, 107199	2.8	3
20	Field-based measurements of volcanic ash resuspension by wind. <i>Earth and Planetary Science Letters</i> , 2021 , 554, 116684	5.3	3
19	Kinetic partitioning of major and trace cations between clinopyroxene and phonotephritic melt under convective stirring conditions: New insights into clinopyroxene sector zoning and concentric zoning. <i>Chemical Geology</i> , 2021 , 584, 120531	4.2	3
18	Grain size and grain size distribution of a lithified fault core in carbonates rocks using multi-scale image analysis: The example of the San Benedetto-Gioia dei Marsi fault (Central Italy). <i>Journal of Structural Geology</i> , 2020 , 134, 104017	3	2
17	Experimental evidence on the origin of Ca-rich carbonated melts formed by interaction between sedimentary limestones and mantle-derived ultrabasic magmas. <i>Geology</i> ,	5	2

16	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	5	2
15	Intra-eruptive trachyte-phonolite transition: Natural evidence and experimental constraints on the role of crystal mushes. <i>American Mineralogist</i> , 2019 , 104, 1750-1764	2.9	2
14	The dynamics of explosive mafic eruptions: New insights from multiparametric observations 2021 , 379-411		2
13	Parameterization of clinopyroxene growth kinetics via crystal size distribution (CSD) analysis: Insights into the temporal scales of magma dynamics at Mt. Etna volcano. <i>Lithos</i> , 2021 , 396-397, 106225	2.9	2
12	Crystal-chemical variations of spinel, clinopyroxene, and plagioclase in MORB basaltic melt induced by continuous cooling. <i>Chemical Geology</i> , 2022 , 120765	4.2	1
11	The unrest of S. Miguel volcano (El Salvador, CA): installation of the monitoring network and observed volcano-tectonic ground deformation		1
10	Interpreting Magma Dynamics Through a Statistically Refined Thermometer. <i>Geophysical Monograph Series</i> , 2021 , 195-212	1.1	1
9	Intraplate Basalt Alkalinity Modulated by a Lithospheric Mantle Filter at the Dunedin Volcano (New Zealand). <i>Journal of Petrology</i> , 2021 , 62,	3.9	1
8	The unrest of the San Miguel volcano (El Salvador, Central America): installation of the monitoring network and observed volcano-tectonic ground deformation. <i>Natural Hazards and Earth System Sciences</i> , 2016 , 16, 1755-1769	3.9	1
7	Transient to stationary radon (Rn) emissions from a phonolitic rock exposed to subvolcanic temperatures. <i>Royal Society Open Science</i> , 2019 , 6, 190782	3.3	1
6	Trachyte-phonolite transition at Dunedin Volcano: Fingerprints of magma plumbing system maturity and mush evolution. <i>Lithos</i> , 2022 , 408-409, 106545	2.9	0
5	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	4.9	0
4	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	2.9	0
3	Geophysics for Kids: The Experience of the Istituto Nazionale di Geofisica e Vulcanologia (Italy). <i>Seismological Research Letters</i> , 2003 , 74, 529-535	3	
2	Decoding multiple zoning patterns in clinopyroxene phenocrysts at Vulcano Island: A record of dynamic crystallization through interconnected reservoirs. <i>Lithos</i> , 2021 , 406-407, 106517	2.9	
1	Carrier and dilution effects of CO on thoron emissions from a zeolitized tuff exposed to subvolcanic temperatures. <i>Royal Society Open Science</i> , 2021 , 8, 201539	3.3	