

Piergiorgio Scarlato

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8106577/piergiorgio-scarlato-publications-by-year.pdf>

Version: 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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
140	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
139	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
138	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	
137	Fracturing and healing of basaltic magmas during explosive volcanic eruptions. <i>Nature Geoscience</i> , 2021 , 14, 248-254	18.3	9
136	Interpreting Magma Dynamics Through a Statistically Refined Thermometer. <i>Geophysical Monograph Series</i> , 2021 , 195-212	1.1	1
135	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
134	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
133	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
132	Field-based measurements of volcanic ash resuspension by wind. <i>Earth and Planetary Science Letters</i> , 2021 , 554, 116684	5.3	3
131	The dynamics of explosive mafic eruptions: New insights from multiparametric observations 2021 , 379-411		2
130	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	
129	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
128	Uncovering the eruptive patterns of the 2019 double-paroxysm eruption crisis of Stromboli volcano. <i>Nature Communications</i> , 2021 , 12, 4213	17.4	7
127	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
126	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
125	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

124	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
123	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
122	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
121	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
120	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
119	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
118	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
117	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
116	Petrological and geochemical modeling of magmas erupted at Vulcano Island in the period 548ka: Quantitative constraints on the sub-volcanic architecture of the plumbing system. <i>Lithos</i> , 2020 , 374-375, 105715	2.9	4
115	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
114	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
113	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
112	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
111	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
110	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
109	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
108	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
107	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

106	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
105	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
104	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
103	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
102	Experimental simulations of volcanic ash resuspension by wind under the effects of atmospheric humidity. <i>Scientific Reports</i> , 2018 , 8, 14509	4.9	13
101	Naturally Occurring Asbestos (NOA) in Granitoid Rocks, A Case Study from Sardinia (Italy). <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 442	2.4	9
100	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
99	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
98	Advancements in Understanding the Radon Signal in Volcanic Areas: A Laboratory Approach Based on Rock Physicochemical Changes 2018 , 309-328		5
97	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
96	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
95	Friction and scale-dependent deformation processes of large experimental carbonate faults. <i>Journal of Structural Geology</i> , 2017 , 100, 12-23	3	15
94	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
93	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
92	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
91	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
90	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
89	In-flight dynamics of volcanic ballistic projectiles. <i>Reviews of Geophysics</i> , 2017 , 55, 675-718	23.1	23

88	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
87	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
86	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
85	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
84	"Explosive volcanic activity at Mt. Yasur: A characterization of the acoustic events (9 th –12 th July 2011)". <i>Journal of Volcanology and Geothermal Research</i> , 2016 , 322, 175-183	2.8	21
83	Stronger or longer: Discriminating between Hawaiian and Strombolian eruption styles. <i>Geology</i> , 2016 , 44, 163-166	5	30
82	Recycled ejecta modulating Strombolian explosions. <i>Bulletin of Volcanology</i> , 2016 , 78, 1	2.4	24
81	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
80	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
79	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
78	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
77	Viscous plugging can enhance and modulate explosivity of strombolian eruptions. <i>Earth and Planetary Science Letters</i> , 2015 , 423, 210-218	5.3	39
76	Experimental constraints on the origin of pahoehoe ricirara lavas at Mt. Etna Volcano (Sicily, Italy). <i>Bulletin of Volcanology</i> , 2015 , 77, 1	2.4	15
75	A K-feldspar liquid hygrometer specific to alkaline differentiated magmas. <i>Chemical Geology</i> , 2015 , 392, 1-8	4.2	38
74	Reconstruction of magmatic variables governing recent Etnean eruptions: Constraints from mineral chemistry and H_2O modeling. <i>Lithos</i> , 2015 , 212-215, 311-320	2.9	51
73	Explosive volcanic activity at Mt. Yasur: A characterization of the acoustic events (9 th –12 th July 2011). <i>Journal of Volcanology and Geothermal Research</i> , 2015 , 302, 24	2.8	4
72	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
71	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

70	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
69	The role of natural solidification paths on REE partitioning between clinopyroxene and melt. <i>Bulletin of Volcanology</i> , 2014 , 76, 1	2.4	18
68	The cooling kinetics of plagioclase feldspar as revealed by electron-microprobe mapping. <i>American Mineralogist</i> , 2014 , 99, 898-907	2.9	34
67	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
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	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
64	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
63	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
62	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
61	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
60	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
59	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
58	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
57	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
56	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
55	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
54	Insights into explosion dynamics and the production of ash at Stromboli from samples collected in real-time, October 2009 2013 ,		6
53	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

52	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
51	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
50	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
49	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
48	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
47	Mixed electrical conduction in a hydrous pantellerite glass. <i>Chemical Geology</i> , 2012 , 320-321, 140-146	4.2	12
46	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
45	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
44	Volcanic edifice weakening via decarbonation: A self-limiting process?. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	22
43	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
42	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
41	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
40	Experimental solidification of an andesitic melt by cooling. <i>Chemical Geology</i> , 2011 , 283, 261-273	4.2	63
39	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
38	A general viscosity model of Campi Flegrei (Italy) melts. <i>Chemical Geology</i> , 2011 , 290, 50-59	4.2	21
37	Volcanic edifice weakening via devolatilization reactions. <i>Geophysical Journal International</i> , 2011 , 186, 1073-1077	2.6	38
36	Plagioclase melt (dis)equilibrium due to cooling dynamics: Implications for thermometry, barometry and hygrometry. <i>Lithos</i> , 2011 , 125, 221-235	2.9	66
35	Petrology of the most recent ultrapotassic magmas from the Roman Province (Central Italy). <i>Lithos</i> , 2011 , 127, 298-308	2.9	33

34	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
33	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
32	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
31	A note on maar eruption energetics: current models and their application. <i>Bulletin of Volcanology</i> , 2010 , 72, 75-83	2.4	27
30	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
29	Carbonate assimilation in magmas: A reappraisal based on experimental petrology. <i>Lithos</i> , 2010 , 114, 503-514	2.9	84
28	Dependence of clinopyroxene composition on cooling rate in basaltic magmas: Implications for thermobarometry. <i>Lithos</i> , 2010 , 118, 302-312	2.9	87
27	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
26	Viscosity of high-K basalt from the 5th April 2003 Stromboli paroxysmal explosion. <i>Chemical Geology</i> , 2009 , 260, 278-285	4.2	25
25	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
24	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
23	Magma-carbonate interaction: An experimental study on ultrapotassic rocks from Alban Hills (Central Italy). <i>Lithos</i> , 2008 , 101, 397-415	2.9	85
22	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
21	Advances in the study of volcanic ash. <i>Eos</i> , 2007 , 88, 253-256	1.5	15
20	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
19	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
18	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
17	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

16	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
15	Sulfur diffusion in basaltic melts. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 5061-5069	5.5	60
14	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
13	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
12	Experimental and analytical modeling of basaltic ash explosions at Mount Etna, Italy, 2001. <i>Journal of Geophysical Research</i> , 2004 , 109,		23
11	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
10	Geophysics for Kids: The Experience of the Istituto Nazionale di Geofisica e Vulcanologia (Italy). <i>Seismological Research Letters</i> , 2003 , 74, 529-535	3	
9	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
8	Water diffusion in natural potassic melts. <i>Geological Society Special Publication</i> , 2003 , 213, 53-62	1.7	21
7	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
6	Monitoring the explosive activity of the July-August 2001 eruption of Mt. Etna (Italy) by ash characterization. <i>Geophysical Research Letters</i> , 2002 , 29, 711-714	4.9	99
5	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
4	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
3	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
2	Real-time setup to record radon emission during rock deformation: implications for geochemical surveillance		3
1	The unrest of S. Miguel volcano (El Salvador, CA): installation of the monitoring network and observed volcano-tectonic ground deformation		1