

Claudia Romano

List of Publications by Year in descending order

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74
papers

3,422
citations

126907

33
h-index

144013

57
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75
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75
docs citations

75
times ranked

2373
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of water on the viscosity of a haplogranitic melt under P-T-X conditions relevant to silicic volcanism. <i>Contributions To Mineralogy and Petrology</i> , 1996, 124, 19-28.	3.1	211
2	Near-infrared spectroscopic determination of water species in glasses of the system MAlSi_3O_8 (M = Li, Tj ETQq0 0.0 rgBT /Overlock 10	3.3	204
3	The rheology of crystal-bearing basaltic magmas from Stromboli and Etna. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3214-3236.	3.9	166
4	Electrical conductivity anisotropy of dry and hydrous olivine at 8 GPa. <i>Physics of the Earth and Planetary Interiors</i> , 2010, 181, 103-111.	1.9	163
5	Diagenetic thermal evolution of organic matter by Raman spectroscopy. <i>Organic Geochemistry</i> , 2017, 106, 57-67.	1.8	140
6	The combined effects of water and fluorine on the viscosity of silicic magmas. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 5159-5168.	3.9	135
7	An expanded non-Arrhenian model for silicate melt viscosity: A treatment for metaluminous, peraluminous and peralkaline liquids. <i>Chemical Geology</i> , 2006, 229, 42-56.	3.3	126
8	24 h stability of thick multilayer silicene in air. <i>2D Materials</i> , 2014, 1, 021003.	4.4	122
9	Extremely fluid behavior of hydrous peralkaline rhyolites. <i>Earth and Planetary Science Letters</i> , 1998, 158, 31-38.	4.4	85
10	The viscosity of trachytes, and comparison with basalts, phonolites, and rhyolites. <i>Chemical Geology</i> , 2004, 213, 49-61.	3.3	83
11	The dry and hydrous viscosities of alkaline melts from Vesuvius and Phlegrean Fields. <i>Chemical Geology</i> , 2003, 202, 23-38.	3.3	80
12	The viscosities of dry and hydrous XAlSi_3O_8 (X=Li, Na, K, Ca0.5, Mg0.5) melts. <i>Chemical Geology</i> , 2001, 174, 115-132.	3.3	77
13	The effects of undercooling and deformation rates on the crystallization kinetics of Stromboli and Etna basalts. <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 491-509.	3.1	76
14	Electrical conductivities of pyrope-almandine garnets up to 19 GPa and 1700 ÅC. <i>American Mineralogist</i> , 2006, 91, 1371-1377.	1.9	73
15	Compression mechanisms in aluminosilicate melts: Raman and XANES spectroscopy of glasses quenched from pressures up to 10 GPa. <i>Chemical Geology</i> , 2001, 174, 21-31.	3.3	70
16	X-ray absorption study of Ti-bearing silicate glasses. <i>Physics and Chemistry of Minerals</i> , 1994, 21, 501.	0.8	68
17	Effect of iron and nanolites on Raman spectra of volcanic glasses: A reassessment of existing strategies to estimate the water content. <i>Chemical Geology</i> , 2017, 475, 76-86.	3.3	67
18	Experimental solidification of anhydrous latitic and trachytic melts at different cooling rates: The role of nucleation kinetics. <i>Chemical Geology</i> , 2008, 253, 91-101.	3.3	66

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19	Viscosity and glass transition temperature of hydrous melts in the system $\text{CaAl}_2\text{Si}_2\text{O}_8\text{-CaMgSi}_2\text{O}_6$. <i>Chemical Geology</i> , 2008, 256, 203-215.	3.3	61
20	Raman and XANES spectroscopy of permanently densified vitreous silica. <i>Journal of Non-Crystalline Solids</i> , 2004, 341, 162-169.	3.1	60
21	The rheology of peralkaline rhyolites from Pantelleria Island. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 249, 201-216.	2.1	59
22	Viscosity of a Teide phonolite in the welding interval. <i>Journal of Volcanology and Geothermal Research</i> , 2000, 103, 239-245.	2.1	56
23	Pre-eruptive volatile (H_2O , F, Cl and S) contents of phonolitic magmas feeding the 3550-year old Avellino eruption from Vesuvius, southern Italy. <i>Journal of Volcanology and Geothermal Research</i> , 1999, 93, 237-256.	2.1	51
24	Rheological properties of magma from the 1538 eruption of Monte Nuovo (Phlegrean Fields, Italy): An experimental study. <i>Chemical Geology</i> , 2008, 256, 158-171.	3.3	48
25	Viscosity data for hydrous peraluminous granitic melts; comparison with a metaluminous model. <i>American Mineralogist</i> , 1998, 83, 236-239.	1.9	45
26	The rheological evolution of alkaline Vesuvius magmas and comparison with alkaline series from the Phlegrean Fields, Etna, Stromboli and Teide. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 6613-6630.	3.9	44
27	The influence of trace amounts of water on the viscosity of rhyolites. <i>Bulletin of Volcanology</i> , 1998, 60, 89-97.	3.0	42
28	Volatile element zonation in Campanian Ignimbrite magmas (Phlegrean Fields, Italy): evidence from the study of glass inclusions and matrix glasses. <i>Contributions To Mineralogy and Petrology</i> , 2001, 140, 543-553.	3.1	42
29	Geochemistry of the mantle source and magma feeding system beneath Turrialba volcano, Costa Rica. <i>Lithos</i> , 2015, 232, 319-335.	1.4	42
30	Crystallization kinetics and rheology of leucite-bearing tephriphonolite magmas from the Colli Albani volcano (Italy). <i>Chemical Geology</i> , 2016, 424, 12-29.	3.3	40
31	The temperature dependence of the speciation of water in $\text{NaAlSi}_3\text{O}_8\text{-KAlSi}_3\text{O}_8$ melts: an application of fictive temperatures derived from synthetic fluid-inclusions. <i>Contributions To Mineralogy and Petrology</i> , 1995, 122, 1-10.	3.1	39
32	Tensile strengths of hydrous vesicular glasses; an experimental study. <i>American Mineralogist</i> , 1996, 81, 1148-1154.	1.9	39
33	Heat capacity, configurational heat capacity and fragility of hydrous magmas. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 142, 314-333.	3.9	37
34	Numerical modelling of stress generation and microfracturing of vesicle walls in glassy rocks. <i>Journal of Volcanology and Geothermal Research</i> , 1996, 73, 33-46.	2.1	33
35	The multiphase rheology of magmas from Monte Nuovo (Campi Flegrei, Italy). <i>Chemical Geology</i> , 2013, 346, 213-227.	3.3	33
36	Influence of composition and thermal history of volcanic glasses on water content as determined by micro-Raman spectrometry. <i>Applied Geochemistry</i> , 2006, 21, 802-812.	3.0	32

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37	Evidence for Al/Si tetrahedral network in aluminosilicate glasses from AlK-edge x-ray-absorption spectroscopy. <i>Physical Review B</i> , 1999, 60, 9216-9219.	3.2	31
38	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.	3.3	30
39	Dynamics of magma ascent and fragmentation in trachytic versus rhyolitic eruptions. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 131, 93-108.	2.1	29
40	Confort 15 model of conduit dynamics: applications to Pantelleria Green Tuff and Etna 122 BC eruptions. <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 1.	3.1	29
41	Electrical conductivity of hydrous wadsleyite. <i>European Journal of Mineralogy</i> , 2009, 21, 615-622.	1.3	28
42	Water diffusion in natural potassic melts. <i>Geological Society Special Publication</i> , 2003, 213, 53-62.	1.3	27
43	Raman spectra of Martian glass analogues: A tool to approximate their chemical composition. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 740-752.	3.6	27
44	Compositional dependence of H ₂ O solubility along the joins NaAlSi ₃ O ₈ -KAlSi ₃ O ₈ , NaAlSi ₃ O ₈ -LiAlSi ₃ O ₈ , and KAlSi ₃ O ₈ -LiAlSi ₃ O ₈ . <i>American Mineralogist</i> , 1996, 81, 452-461.	1.9	26
45	High-temperature viscosity measurements of hydrous albite liquid using in-situ falling-sphere viscometry at 2.5 GPa. <i>Chemical Geology</i> , 2006, 229, 2-9.	3.3	25
46	79AD Vesuvius PDC deposits' temperatures inferred from optical analysis on woods charred in-situ in the Villa dei Papiri at Herculaneum (Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2014, 289, 14-25.	2.1	25
47	Thermal interactions of the AD79 Vesuvius pyroclastic density currents and their deposits at Villa dei Papiri (Herculaneum archaeological site, Italy). <i>Earth and Planetary Science Letters</i> , 2018, 490, 180-192.	4.4	22
48	The effect of H ₂ O on the viscosity of K-trachytic melts at magmatic temperatures. <i>Chemical Geology</i> , 2006, 235, 124-137.	3.3	21
49	High-temperature deformation of volcanic materials in the presence of water. <i>American Mineralogist</i> , 2008, 93, 74-80.	1.9	20
50	Models for viscosity and shear localization in bubble-rich magmas. <i>Earth and Planetary Science Letters</i> , 2016, 449, 26-38.	4.4	20
51	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.	3.3	19
52	The complex rheology of megacryst-rich magmas: The case of the mugearitic <i>œcicirara</i> lavas of Mt. Etna volcano. <i>Chemical Geology</i> , 2017, 458, 48-67.	3.3	18
53	An integrated platform for thermal maturity assessment of polyphase, long-lasting sedimentary basins, from classical to brand-new thermal parameters and models: An example from the on-shore Baltic Basin (Poland). <i>Marine and Petroleum Geology</i> , 2020, 122, 104547.	3.3	17
54	Hyaloclastite fragmentation below the glass transition: An example from El Barronal submarine volcanic complex (Spain). <i>Geology</i> , 2014, 42, 87-90.	4.4	16

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55	Application of multiple scattering calculation to the study of local geometry in silicate glasses of geological interest. <i>Physica B: Condensed Matter</i> , 1995, 208-209, 351-353.	2.7	14
56	Neutron diffraction study of feldspar glasses. Mixed alkali effect. <i>Journal of Non-Crystalline Solids</i> , 1995, 191, 124-131.	3.1	14
57	Mixed electrical conduction in a hydrous pantellerite glass. <i>Chemical Geology</i> , 2012, 320-321, 140-146.	3.3	14
58	Modelling and physico-chemical constraints to the 4.5 ka Agnano-Monte Spina Plinian eruption (Campi Flegrei). <i>Journal of Volcanology and Geothermal Research</i> , 2012, 126, 1-14.	3.3	14
59	Viscosities of granitic (sensu lato) melts: Influence of the anorthite component. <i>American Mineralogist</i> , 2000, 85, 1342-1348.	1.9	13
60	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.	3.3	13
61	Heat capacity of hydrous trachybasalt from Mt Etna: comparison with $\text{CaAl}_2\text{Si}_2\text{O}_8$ (Anorthite) and $\text{CaMgSi}_2\text{O}_6$ (Diopside) as basaltic proxy compositions. <i>Contributions To Mineralogy and Petrology</i> , 2015, 170, 1.	3.1	12
62	An Extended Rheological Map of the Earth's Mantle Transition. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022035.	3.4	12
63	A comprehensive database of crystal-bearing magmas for the calibration of a rheological model. <i>Scientific Data</i> , 2022, 9, .	5.3	9
64	Unsteady magma discharge during the 1702 El Retiro subplinian eruption (Turrialba volcano, Costa Rica): Insights from textural and petrological analyses. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 371, 101-115.	2.1	8
65	Viscosity of Palmas-type magmas of the Paraná Magmatic Province (Rio Grande do Sul State, Brazil): Implications for high-temperature silicic volcanism. <i>Chemical Geology</i> , 2021, 560, 119981.	3.3	8
66	Raman Spectral Shifts in Naturally Faulted Rocks. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009923.	2.5	8
67	Ascent velocity and dynamics of the Fiumicino mud eruption, Rome, Italy. <i>Geophysical Research Letters</i> , 2015, 42, 6244-6252.	4.0	7
68	Linking magma texture, rheology and eruptive style during the 472 AD Pollena Subplinian eruption (Somma-Vesuvius). <i>Lithos</i> , 2020, 370-371, 105658.	1.4	6
69	Determination of cooling rates of glasses over four orders of magnitude. <i>Contributions To Mineralogy and Petrology</i> , 2022, 177, 1.	3.1	6
70	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.	2.0	5
71	Micro-Raman water calibration in ultrapotassic silicate glasses: Application to phono-tephrites and K-foidites of Colli Albani Volcanic District (Central Italy). <i>Chemical Geology</i> , 2022, 597, 120816.	3.3	5
72	Calibrating Carbonization Temperatures of Wood Fragments Embedded within Pyroclastic Density Currents through Raman Spectroscopy. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 203.	2.0	4

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73	The effect of pores (fluid-filled vs. drained) on magma rheology. <i>Chemical Geology</i> , 2021, 569, 120147.	3.3	3
74	Editorial for the Special Issue "Properties of Melt and Minerals at High Pressures and High Temperature". <i>Minerals</i> (Basel, Switzerland), 2020, 10, 723.	2.0	1