Claudia Romano

List of Publications by Year
in descending order

74 papers	3,422 citations	126907 33 h-index	144013 57 g-index
75 all docs	75 docs citations	75 times ranked	2373 citing authors

#	Article	IF	Citations
1	Calibrating Carbonization Temperatures of Wood Fragments Embedded within Pyroclastic Density Currents through Raman Spectroscopy. Minerals (Basel, Switzerland), 2022, 12, 203.	2.0	4
2	Determination of cooling rates of glasses over four orders of magnitude. Contributions To Mineralogy and Petrology, 2022, 177, 1.	3.1	6
3	Micro-Raman water calibration in ultrapotassic silicate glasses: Application to phono-tephrites and K-foidites of Colli Albani Volcanic District (Central Italy). Chemical Geology, 2022, 597, 120816.	3.3	5
4	A comprehensive database of crystal-bearing magmas for the calibration of a rheological model. Scientific Data, 2022, 9, .	5.3	9
5	Viscosity of Palmas-type magmas of the ParanÃ¡ Magmatic Province (Rio Grande do Sul State, Brazil): Implications for high-temperature silicic volcanism. Chemical Geology, 2021, 560, 119981.	3.3	8
6	The effect of pores (fluid-filled vs. drained) on magma rheology. Chemical Geology, 2021, 569, 120147.	3.3	3
7	An Extended Rheological Map of PÄhoehoeâ€"â€˜Aâ€˜Ä•Transition. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022035.	3.4	12
8	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. Chemical Geology, 2021, 584, 120531.	3.3	13
9	Raman Spectral Shifts in Naturally Faulted Rocks. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009923.	2.5	8
10	Modelling and physico-chemical constraints to the 4.5 ka Agnano-Monte Spina Plinian eruption (Campi) Tj ETQq0 0 0 rgBT /Overlock 10	3.3	14
11	Editorial for the Special Issue â€œProperties of Melt and Minerals at High Pressures and High Temperatureâ€• Minerals (Basel, Switzerland), 2020, 10, 723.	2.0	1
12	Linking magma texture, rheology and eruptive style during the 472ÂAD Pollena Subplinian eruption (Somma-Vesuvius). Lithos, 2020, 370-371, 105658.	1.4	6
13	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). Marine and Petroleum Geology, 2020, 122, 104547.	3.3	17
14	The Viscosity and Atomic Structure of Volatile-Bearing Melilititic Melts at High Pressure and Temperature and the Transport of Deep Carbon. Minerals (Basel, Switzerland), 2020, 10, 267.	2.0	5
15	Unsteady magma discharge during the â€œEl Retiroâ€•subplinian eruption (Turrialba volcano, Costa Rica): Insights from textural and petrological analyses. Journal of Volcanology and Geothermal Research, 2019, 371, 101-115.	2.1	8
16	Thermal interactions of the AD79 Vesuvius pyroclastic density currents and their deposits at Villa dei Papiri (Herculaneum archaeological site, Italy). Earth and Planetary Science Letters, 2018, 490, 180-192.	4.4	22
17	Diagenetic thermal evolution of organic matter by Raman spectroscopy. Organic Geochemistry, 2017, 106, 57-67.	1.8	140
18	The complex rheology of megacryst-rich magmas: The case of the mugearitic â€œciciraraâ€•lavas of Mt. Etna volcano. Chemical Geology, 2017, 458, 48-67.	3.3	18

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19	Effect of iron and nanolites on Raman spectra of volcanic glasses: A reassessment of existing strategies to estimate the water content. Chemical Geology, 2017, 475, 76-86.	3.3	67
20	Confort 15 model of conduit dynamics: applications to Pantelleria Green Tuff and Etna 122 BC eruptions. Contributions To Mineralogy and Petrology, 2016, 171, 1.	3.1	29
21	Raman spectra of Martian glass analogues: A tool to approximate their chemical composition. Journal of Geophysical Research E: Planets, 2016, 121, 740-752.	3.6	27
22	Models for viscosity and shear localization in bubble-rich magmas. Earth and Planetary Science Letters, 2016, 449, 26-38.	4.4	20
23	Crystallization kinetics and rheology of leucite-bearing tephriphonolite magmas from the Colli Albani volcano (Italy). Chemical Geology, 2016, 424, 12-29.	3.3	40
24	Ascent velocity and dynamics of the Fiumicino mud eruption, Rome, Italy. Geophysical Research Letters, 2015, 42, 6244-6252.	4.0	7
25	Geochemistry of the mantle source and magma feeding system beneath Turrialba volcano, Costa Rica. Lithos, 2015, 232, 319-335.	1.4	42
26	Heat capacity of hydrous trachybasalt from Mt Etna: comparison with CaAl2Si2O8 (An)â€“CaMgSi2O6 (Di) as basaltic proxy compositions. Contributions To Mineralogy and Petrology, 2015, 170, 1.	3.1	12
27	79AD Vesuvius PDC deposits' temperatures inferred from optical analysis on woods charred in-situ in the Villa dei Papiri at Herculaneum (Italy). Journal of Volcanology and Geothermal Research, 2014, 289, 14-25.	2.1	25
28	The effect of CO2 and H2O on Etna and Fondo Riccio (Phlegrean Fields) liquid viscosity, glass transition temperature and heat capacity. Chemical Geology, 2014, 377, 72-86.	3.3	30
29	Heat capacity, configurational heat capacity and fragility of hydrous magmas. Geochimica Et Cosmochimica Acta, 2014, 142, 314-333.	3.9	37
30	24 h stability of thick multilayer silicene in air. 2D Materials, 2014, 1, 021003.	4.4	122
31	Hyaloclastite fragmentation below the glass transition: An example from El Barronal submarine volcanic complex (Spain). Geology, 2014, 42, 87-90.	4.4	16
32	The effects of undercooling and deformation rates on the crystallization kinetics of Stromboli and Etna basalts. Contributions To Mineralogy and Petrology, 2013, 166, 491-509.	3.1	76
33	The multiphase rheology of magmas from Monte Nuovo (Campi Flegrei, Italy). Chemical Geology, 2013, 346, 213-227.	3.3	33
34	The rheology of peralkaline rhyolites from Pantelleria Island. Journal of Volcanology and Geothermal Research, 2013, 249, 201-216.	2.1	59
35	Mixed electrical conduction in a hydrous pantellerite glass. Chemical Geology, 2012, 320-321, 140-146.	3.3	14
36	The rheology of crystal-bearing basaltic magmas from Stromboli and Etna. Geochimica Et Cosmochimica Acta, 2011, 75, 3214-3236.	3.9	166

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37	Electrical conductivity anisotropy of dry and hydrous olivine at 8 GPa. Physics of the Earth and Planetary Interiors, 2010, 181, 103-111.	1.9	163
38	Electrical conductivity of hydrous wadsleyite. European Journal of Mineralogy, 2009, 21, 615-622.	1.3	28
39	The rheological evolution of alkaline Vesuvius magmas and comparison with alkaline series from the Phlegrean Fields, Etna, Stromboli and Teide. Geochimica Et Cosmochimica Acta, 2009, 73, 6613-6630.	3.9	44
40	Experimental solidification of anhydrous latitic and trachytic melts at different cooling rates: The role of nucleation kinetics. Chemical Geology, 2008, 253, 91-101.	3.3	66
41	Electrical conductivity of a phonotephrite from Mt. Vesuvius: The importance of chemical composition on the electrical conductivity of silicate melts. Chemical Geology, 2008, 256, 193-202.	3.3	19
42	Viscosity and glass transition temperature of hydrous melts in the system CaAl2Si2O8â€“CaMgSi2O6. Chemical Geology, 2008, 256, 203-215.	3.3	61
43	Rheological properties of magma from the 1538 eruption of Monte Nuovo (Phlegrean Fields, Italy): An experimental study. Chemical Geology, 2008, 256, 158-171.	3.3	48
44	High-temperature deformation of volcanic materials in the presence of water. American Mineralogist, 2008, 93, 74-80.	1.9	20
45	Influence of composition and thermal history of volcanic glasses on water content as determined by micro-Raman spectrometry. Applied Geochemistry, 2006, 21, 802-812.	3.0	32
46	An expanded non-Arrhenian model for silicate melt viscosity: A treatment for metaluminous, peraluminous and peralkaline liquids. Chemical Geology, 2006, 229, 42-56.	3.3	126
47	High-temperature viscosity measurements of hydrous albite liquid using in-situ falling-sphere viscometry at 2.5 GPa. Chemical Geology, 2006, 229, 2-9.	3.3	25
48	The effect of H2O on the viscosity of K-trachytic melts at magmatic temperatures. Chemical Geology, 2006, 235, 124-137.	3.3	21
49	Electrical conductivities of pyrope-almandine garnets up to 19 GPa and 1700 ÂC. American Mineralogist, 2006, 91, 1371-1377.	1.9	73
50	Dynamics of magma ascent and fragmentation in trachytic versus rhyolitic eruptions. Journal of Volcanology and Geothermal Research, 2004, 131, 93-108.	2.1	29
51	The viscosity of trachytes, and comparison with basalts, phonolites, and rhyolites. Chemical Geology, 2004, 213, 49-61.	3.3	83
52	The combined effects of water and fluorine on the viscosity of silicic magmas. Geochimica Et Cosmochimica Acta, 2004, 68, 5159-5168.	3.9	135
53	Raman and XANES spectroscopy of permanently densified vitreous silica. Journal of Non-Crystalline Solids, 2004, 341, 162-169.	3.1	60
54	The dry and hydrous viscosities of alkaline melts from Vesuvius and Phlegrean Fields. Chemical Geology, 2003, 202, 23-38.	3.3	80

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55	Water diffusion in natural potassic melts. Geological Society Special Publication, 2003, 213, 53-62.	1.3	27
56	Compression mechanisms in aluminosilicate melts: Raman and XANES spectroscopy of glasses quenched from pressures up to 10 GPa. Chemical Geology, 2001, 174, 21-31.	3.3	70
57	The viscosities of dry and hydrous XAlSi3O8 (X=Li, Na, K, Ca0.5, Mg0.5) melts. Chemical Geology, 2001, 174, 115-132.	3.3	77
58	Volatile element zonation in Campanian Ignimbrite magmas (Phlegrean Fields, Italy): evidence from the study of glass inclusions and matrix glasses. Contributions To Mineralogy and Petrology, 2001, 140, 543-553.	3.1	42
59	Viscosity of a Teide phonolite in the welding interval. Journal of Volcanology and Geothermal Research, 2000, 103, 239-245.	2.1	56
60	Viscosities of granitic (sensu lato) melts: Influence of the anorthite component. American Mineralogist, 2000, 85, 1342-1348.	1.9	13
61	Evidence for Al/Si tetrahedral network in aluminosilicate glasses from AlK-edge x-ray-absorption spectroscopy. Physical Review B, 1999, 60, 9216-9219.	3.2	31
62	Pre-eruptive volatile (H2O, F, Cl and S) contents of phonolitic magmas feeding the 3550-year old Avellino eruption from Vesuvius, southern Italy. Journal of Volcanology and Geothermal Research, 1999, 93, 237-256.	2.1	51
63	The influence of trace amounts of water on the viscosity of rhyolites. Bulletin of Volcanology, 1998, 60, 89-97.	3.0	42
64	Extremely fluid behavior of hydrous peralkaline rhyolites. Earth and Planetary Science Letters, 1998, 158, 31-38.	4.4	85
65	Viscosity data for hydrous peraluminous granitic melts; comparison with a metaluminous model. American Mineralogist, 1998, 83, 236-239.	1.9	45
66	Near-infrared spectroscopic determination of water species in glasses of the system MAlSi3O8 (M = Li,) Tj ETQq0 0 0 rgBT /Overlock 10	3.3	204
67	Compositional dependence of H2O solubility along the joins NaAlSi3O8-KAlsi3O8, NaAlSi3O8-LiAlSi3O8, and KAlSi3O8-LiAlSi3O8. American Mineralogist, 1996, 81, 452-461.	1.9	26
68	Tensile strengths of hydrous vesicular glasses; an experimental study. American Mineralogist, 1996, 81, 1148-1154.	1.9	39
69	Numerical modelling of stress generation and microfracturing of vesicle walls in glassy rocks. Journal of Volcanology and Geothermal Research, 1996, 73, 33-46.	2.1	33
70	The effect of water on the viscosity of a haplogranitic melt under P-T-X conditions relevant to silicic volcanism. Contributions To Mineralogy and Petrology, 1996, 124, 19-28.	3.1	211
71	The temperature dependence of the speciation of water in NaAlSi 3 O 8 -KAlSi 3 O 8 melts: an application of fictive temperatures derived from synthetic fluid-inclusions. Contributions To Mineralogy and Petrology, 1995, 122, 1-10.	3.1	39
72	Application of multiple scattering calculation to the study of local geometry in silicate glasses of geological interest. Physica B: Condensed Matter, 1995, 208-209, 351-353.	2.7	14

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73	Neutron diffraction study of feldspar glasses. Mixed alkali effect. Journal of Non-Crystalline Solids, 1995, 191, 124-131.	3.1	14
74	X-ray absorption study of Ti-bearing silicate glasses. Physics and Chemistry of Minerals, 1994, 21, 501.	0.8	68