Alessandro Vona

List of Publications by Year
in descending order

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38 papers	925 citations	516710 16 h-index	454955 30 g-index
41 all docs	41 docs citations	41 times ranked	1025 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	Meso- to nano-scale evidence of fluid-assisted co-seismic slip along the normal Mt. Morrone Fault, Italy: Implications for earthquake hydrogeochemical precursors. Earth and Planetary Science Letters, 2021, 568, 117010.	4.4	18
9	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
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	Preservation of neurons in an AD 79 vitrified human brain. PLoS ONE, 2020, 15, e0240017.	2.5	5
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	Preservation of neurons in an AD 79 vitrified human brain. , 2020, 15, e0240017.		0
14	Preservation of neurons in an AD 79 vitrified human brain. , 2020, 15, e0240017.		0
15	Preservation of neurons in an AD 79 vitrified human brain. , 2020, 15, e0240017.		0
16	Preservation of neurons in an AD 79 vitrified human brain. , 2020, 15, e0240017.		0
17	Strainâ€Dependent Rheology of Silicate Melt Foams: Importance for Outgassing of Silicic Lavas. Journal of Geophysical Research: Solid Earth, 2019, 124, 8167-8186.	3.4	10
18	A proxy for magmatic foams: FOAMGLASÂ®, a closed-cell glass insulation. Journal of Non-Crystalline Solids: X, 2019, 1, 100001.	1.2	5

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19	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
20	Depth of formation of super-deep diamonds: Raman barometry of CaSiO3-walstromite inclusions. American Mineralogist, 2018, 103, 69-74.	1.9	33
21	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
22	Like a cannonball: origin of dense spherical basaltic ejecta. Bulletin of Volcanology, 2017, 79, 1.	3.0	2
23	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
24	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
25	The Baiaâ€“Fondi di Baia eruption at Campi Flegrei: stratigraphy and dynamics of a multi-stage caldera reactivation event. Bulletin of Volcanology, 2017, 79, 1.	3.0	15
26	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
27	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
28	Models for viscosity and shear localization in bubble-rich magmas. Earth and Planetary Science Letters, 2016, 449, 26-38.	4.4	20
29	Relating natural heterogeneities and rheological properties of rocksalt: New insights from microstructural observations and petrophyisical parameters on Messinian halites from the Italian Peninsula. Tectonophysics, 2016, 666, 103-120.	2.2	7
30	Crystallization kinetics and rheology of leucite-bearing tephriphonolite magmas from the Colli Albani volcano (Italy). Chemical Geology, 2016, 424, 12-29.	3.3	40
31	Ascent velocity and dynamics of the Fiumicino mud eruption, Rome, Italy. Geophysical Research Letters, 2015, 42, 6244-6252.	4.0	7
32	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
33	The geochemical evolution of clinopyroxene in the Roman Province: A window on decarbonation from wall-rocks to magma. Lithos, 2014, 192-195, 1-7.	1.4	30
34	24 h stability of thick multilayer silicene in air. 2D Materials, 2014, 1, 021003.	4.4	122
35	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
36	The multiphase rheology of magmas from Monte Nuovo (Campi Flegrei, Italy). Chemical Geology, 2013, 346, 213-227.	3.3	33

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37	The rheology of peralkaline rhyolites from Pantelleria Island. Journal of Volcanology and Geothermal Research, 2013, 249, 201-216.	2.1	59
38	The rheology of crystal-bearing basaltic magmas from Stromboli and Etna. Geochimica Et Cosmochimica Acta, 2011, 75, 3214-3236.	3.9	166