

# Alessandro Vona

## List of Publications by Year in descending order

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Version: 2024-02-01

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	The rheology of crystal-bearing basaltic magmas from Stromboli and Etna. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3214-3236.	3.9	166
2	24 h stability of thick multilayer silicene in air. <i>2D Materials</i> , 2014, 1, 021003.	4.4	122
3	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
4	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
5	The rheology of peralkaline rhyolites from Pantelleria Island. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 249, 201-216.	2.1	59
6	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
7	The multiphase rheology of magmas from Monte Nuovo (Campi Flegrei, Italy). <i>Chemical Geology</i> , 2013, 346, 213-227.	3.3	33
8	Depth of formation of super-deep diamonds: Raman barometry of CaSiO <sub>3</sub> -walsstromite inclusions. <i>American Mineralogist</i> , 2018, 103, 69-74.	1.9	33
9	The geochemical evolution of clinopyroxene in the Roman Province: A window on decarbonation from wall-rocks to magma. <i>Lithos</i> , 2014, 192-195, 1-7.	1.4	30
10	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
11	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
12	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
13	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
14	Models for viscosity and shear localization in bubble-rich magmas. <i>Earth and Planetary Science Letters</i> , 2016, 449, 26-38.	4.4	20
15	The complex rheology of megacryst-rich magmas: The case of the mugearitic lavas of Mt. Etna volcano. <i>Chemical Geology</i> , 2017, 458, 48-67.	3.3	18
16	Meso- to nano-scale evidence of fluid-assisted co-seismic slip along the normal Mt. Morrone Fault, Italy: Implications for earthquake hydrogeochemical precursors. <i>Earth and Planetary Science Letters</i> , 2021, 568, 117010.	4.4	18
17	The Baia "Fondi di Baia eruption at Campi Flegrei: stratigraphy and dynamics of a multi-stage caldera reactivation event. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	3.0	15
18	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> , 2017, 333, 1-14.	3.3	14

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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.	3.3	13
20	An Extended Rheological Map of the Pliocene-Quaternary Transition. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022035.	3.4	12
21	Strain-Dependent Rheology of Silicate Melt Foams: Importance for Outgassing of Silicic Lavas. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 8167-8186.	3.4	10
22	A comprehensive database of crystal-bearing magmas for the calibration of a rheological model. <i>Scientific Data</i> , 2022, 9, .	5.3	9
23	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
24	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
25	Ascent velocity and dynamics of the Fiumicino mud eruption, Rome, Italy. <i>Geophysical Research Letters</i> , 2015, 42, 6244-6252.	4.0	7
26	Relating natural heterogeneities and rheological properties of rocksalt: New insights from microstructural observations and petrophysical parameters on Messinian halites from the Italian Peninsula. <i>Tectonophysics</i> , 2016, 666, 103-120.	2.2	7
27	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
28	Determination of cooling rates of glasses over four orders of magnitude. <i>Contributions To Mineralogy and Petrology</i> , 2022, 177, 1.	3.1	6
29	A proxy for magmatic foams: FOAMGLAS®, a closed-cell glass insulation. <i>Journal of Non-Crystalline Solids: X</i> , 2019, 1, 100001.	1.2	5
30	Preservation of neurons in an AD 79 vitrified human brain. <i>PLoS ONE</i> , 2020, 15, e0240017.	2.5	5
31	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
32	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
33	The effect of pores (fluid-filled vs. drained) on magma rheology. <i>Chemical Geology</i> , 2021, 569, 120147.	3.3	3
34	Like a cannonball: origin of dense spherical basaltic ejecta. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	3.0	2
35	Preservation of neurons in an AD 79 vitrified human brain. , 2020, 15, e0240017.		0
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37	Preservation of neurons in an AD 79 vitrified human brain. , 2020, 15, e0240017.		0
38	Preservation of neurons in an AD 79 vitrified human brain. , 2020, 15, e0240017.		0