

Daniele Giordano

List of Publications by Year in Descending Order

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

64
papers

3,401
citations

30
h-index

58
g-index

72
ext. papers

3,810
ext. citations

4.2
avg, IF

5.36
L-index

#	Paper	IF	Citations
64	Retrieving dissolved H ₂ O content from micro-Raman spectroscopy on nanolitized silicic glasses: Application to volcanic products of the Paran�Magmatic Province, Brazil. <i>Chemical Geology</i> , 2021 , 567, 120058	4.2	3
63	Viscosity of Palmas-type magmas of the Paran�Magmatic Province (Rio Grande do Sul State, Brazil): Implications for high-temperature silicic volcanism. <i>Chemical Geology</i> , 2021 , 560, 119981	4.2	3
62	Temperature-pressure-composition model for melt viscosity in the Di-An-Ab system. <i>Chemical Geology</i> , 2021 , 560, 119895	4.2	1
61	Raman Spectroscopy from Laboratory and Proximal to Remote Sensing: A Tool for the Volcanological Sciences. <i>Remote Sensing</i> , 2020 , 12, 805	5	6
60	A Raman spectroscopic tool to estimate chemical composition of natural volcanic glasses. <i>Chemical Geology</i> , 2020 , 556, 119819	4.2	5
59	A calibrated database of Raman spectra for natural silicate glasses: implications for modelling melt physical properties. <i>Journal of Raman Spectroscopy</i> , 2020 , 51, 1822-1838	2.3	9
58	The 2.0�1.88 Ga Paleoproterozoic evolution of the southern Amazonian Craton (Brazil): An interpretation inferred by lithofaciological, geochemical and geochronological data. <i>Gondwana Research</i> , 2019 , 70, 1-24	5.1	14
57	Advances in the rheology of natural multiphase silicate melts: Import for magma transport and lava flow emplacement. <i>Annals of Geophysics</i> , 2019 , 61,	1.1	4
56	The effect of oxygen fugacity on the rheological evolution of crystallizing basaltic melts. <i>Earth and Planetary Science Letters</i> , 2018 , 487, 21-32	5.3	42
55	Effusive silicic volcanism in the Paran�Magmatic Province, South Brazil: Physico-chemical conditions of storage and eruption and considerations on the rheological behavior during emplacement. <i>Journal of Volcanology and Geothermal Research</i> , 2018 , 355, 115-135	2.8	16
54	Effusive silicic volcanism in the Paran�Magmatic Province, South Brazil: Evidence for locally-fed lava flows and domes from detailed field work. <i>Journal of Volcanology and Geothermal Research</i> , 2018 , 355, 204-218	2.8	17
53	Equilibrium Viscosity and Disequilibrium Rheology of a high Magnesium Basalt from Piton De La Fournaise volcano, La Reunion, Indian Ocean, France. <i>Annals of Geophysics</i> , 2018 , 61,	1.1	6
52	Archaeomagnetic dating of Copper Age furnaces at Croce di Papa village and relations on Vesuvius and Phlegraean Fields volcanic activity. <i>Journal of Volcanology and Geothermal Research</i> , 2018 , 349, 217-229	2.8	7
51	Towards a structural model for the viscosity of geological melts. <i>Earth and Planetary Science Letters</i> , 2018 , 501, 202-212	5.3	16
50	Shear Rate-Dependent Disequilibrium Rheology and Dynamics of Basalt Solidification. <i>Geophysical Research Letters</i> , 2018 , 45, 6466-6475	4.9	25
49	The rheological evolution of the 2014/2015 eruption at Holuhraun, central Iceland. <i>Bulletin of Volcanology</i> , 2017 , 79, 1	2.4	34
48	The heat capacity of hydrous multicomponent natural melts and glasses. <i>Chemical Geology</i> , 2017 , 461, 96-103	4.2	7

47	Modelling configurational entropy of silicate melts. <i>Chemical Geology</i> , 2017 , 461, 140-151	4.2	12
46	From magma ascent to ash generation: investigating volcanic conduit processes by integrating experiments, numerical modeling, and observations. <i>Annals of Geophysics</i> , 2017 , 60,	1.1	3
45	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016 , 54, 6687-6699	8.1	16
44	A novel protocol for resolving feldspar crystals in synchrotron X-ray microtomographic images of crystallized natural magmas and synthetic analogs. <i>American Mineralogist</i> , 2016 , 101, 2301-2311	2.9	11
43	Volcanology of the Southwestern sector of Vesuvius volcano, Italy. <i>Journal of Maps</i> , 2016 , 12, 425-440	2.2	7
42	Paleoproterozoic felsic volcanism of the Tapajó Mineral Province, Southern Amazon Craton, Brazil. <i>Journal of Volcanology and Geothermal Research</i> , 2016 , 310, 98-106	2.8	10
41	In situ thermal characterization of cooling/crystallizing lavas during rheology measurements and implications for lava flow emplacement. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 195, 244-258	5.5	38
40	Heat capacity of hydrous trachybasalt from Mt Etna: comparison with CaAl ₂ Si ₂ O ₈ (An)–CaMgSi ₂ O ₆ (Di) as basaltic proxy compositions. <i>Contributions To Mineralogy and Petrology</i> , 2015 , 170, 1	3.5	9
39	Heat capacity, configurational heat capacity and fragility of hydrous magmas. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 142, 314-333	5.5	33
38	Permeability measurements of Campi Flegrei pyroclastic products: An example from the Campanian Ignimbrite and Monte Nuovo eruptions. <i>Journal of Volcanology and Geothermal Research</i> , 2014 , 272, 16-22	2.8	15
37	Densification mechanisms of haplogranite glasses as a function of water content and pressure based on density and Raman data. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 138, 158-180	5.5	16
36	Physical properties of CaAl ₂ Si ₂ O ₈ –CaMgSi ₂ O ₆ –BeO–Be ₂ O ₃ melts: Analogues for extra-terrestrial basalt. <i>Chemical Geology</i> , 2013 , 346, 93-105	4.2	42
35	The multiphase rheology of magmas from Monte Nuovo (Campi Flegrei, Italy). <i>Chemical Geology</i> , 2013 , 346, 213-227	4.2	31
34	The rheology of peralkaline rhyolites from Pantelleria Island. <i>Journal of Volcanology and Geothermal Research</i> , 2013 , 249, 201-216	2.8	50
33	The rheology of crystal-bearing basaltic magmas from Stromboli and Etna. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 3214-3236	5.5	135
32	Spectroscopic analysis (FTIR, Raman) of water in mafic and intermediate glasses and glass inclusions. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 5641-5656	5.5	56
31	Rheological control on the dynamics of explosive activity in the 2000 summit eruption of Mt. Etna. <i>Solid Earth</i> , 2010 , 1, 61-69	3.3	18
30	Giant gas bubbles in a rheomorphic vent fill at the Las Cañadas caldera, Tenerife (Canary Islands). <i>Bulletin of Volcanology</i> , 2009 , 71, 919-932	2.4	4

29	Micro-Raman determination of iron redox state in dry natural glasses: Application to peralkaline rhyolites and basalts. <i>Chemical Geology</i> , 2009 , 259, 78-88	4.2	52
28	Influence of glass polymerisation and oxidation on micro-Raman water analysis in aluminosilicate glasses. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 197-217	5.5	75
27	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	5.5	38
26	Texture and composition of pumices and scoriae from the Campi Flegrei caldera (Italy): Implications on the dynamics of explosive eruptions. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	32
25	Viscosity of magmatic liquids: A model. <i>Earth and Planetary Science Letters</i> , 2008 , 271, 123-134	5.3	1029
24	A model for the viscosity of rhyolite as a function of H ₂ O-content and pressure: A calibration based on centrifuge piston cylinder experiments. <i>Geochimica Et Cosmochimica Acta</i> , 2008 , 72, 6103-6123	5.5	43
23	Viscosity and glass transition temperature of hydrous melts in the system CaAl ₂ Si ₂ O ₈ -CaMgSi ₂ O ₆ . <i>Chemical Geology</i> , 2008 , 256, 203-215	4.2	56
22	Rheology of porous volcanic materials: High-temperature experimentation under controlled water pressure. <i>Chemical Geology</i> , 2008 , 256, 216-230	4.2	17
21	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	4.2	44
20	High-temperature deformation of volcanic materials in the presence of water. <i>American Mineralogist</i> , 2008 , 93, 74-80	2.9	20
19	Thermo-rheological magma control on the impact of highly fluid lava flows at Mt. Nyiragongo. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	42
18	A rheological model for glassforming silicate melts in the systems CAS, MAS, MCAS. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 205148	1.8	19
17	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	3.5	27
16	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	4.2	89
15	A model for silicate melt viscosity in the system CaMgSi ₂ O ₆ -CaAl ₂ Si ₂ O ₈ -NaAlSi ₃ O ₈ . <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 5333-5349	5.5	36
14	Glass transition temperatures of natural hydrous melts: a relationship with shear viscosity and implications for the welding process. <i>Journal of Volcanology and Geothermal Research</i> , 2005 , 142, 105-118	2.8	127
13	Dynamics of magma ascent and fragmentation in trachytic versus rhyolitic eruptions. <i>Journal of Volcanology and Geothermal Research</i> , 2004 , 131, 93-108	2.8	27
12	The viscosity of trachytes, and comparison with basalts, phonolites, and rhyolites. <i>Chemical Geology</i> , 2004 , 213, 49-61	4.2	72

11	The combined effects of water and fluorine on the viscosity of silicic magmas. <i>Geochimica Et Cosmochimica Acta</i> , 2004 , 68, 5159-5168	5.5	118
10	Viscosity of peridotite liquid. <i>Earth and Planetary Science Letters</i> , 2004 , 226, 127-138	5.3	72
9	High-temperature limits on viscosity of non-Arrhenian silicate melts. <i>American Mineralogist</i> , 2004 , 88, 1390-1394	2.9	67
8	Viscosity of hydrous Etna basalt: implications for Plinian-style basaltic eruptions. <i>Bulletin of Volcanology</i> , 2003 , 65, 8-14	2.4	147
7	The dry and hydrous viscosities of alkaline melts from Vesuvius and Phlegrean Fields. <i>Chemical Geology</i> , 2003 , 202, 23-38	4.2	74
6	Non-Arrhenian multicomponent melt viscosity: a model. <i>Earth and Planetary Science Letters</i> , 2003 , 208, 337-349	5.3	172
5	The kinetic fragility of natural silicate melts. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, S945-S954	1.8	28
4	Modelling the non-Arrhenian rheology of silicate melts: Numerical considerations. <i>European Journal of Mineralogy</i> , 2002 , 14, 417-428	2.2	25
3	Predicting shear viscosity during volcanic processes at the glass transition: a calorimetric calibration. <i>Earth and Planetary Science Letters</i> , 2002 , 198, 417-427	5.3	66
2	Viscosity of a Teide phonolite in the welding interval. <i>Journal of Volcanology and Geothermal Research</i> , 2000 , 103, 239-245	2.8	49
1	Rheological control on the dynamics of explosive activity in the 2000 summit eruption of Mt. Etna		2