

David A Neave

List of Publications by Year in descending order

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32
papers

1,176
citations

394421

19
h-index

414414

32
g-index

37
all docs

37
docs citations

37
times ranked

963
citing authors

#	ARTICLE	IF	CITATIONS
1	A new clinopyroxene-liquid barometer, and implications for magma storage pressures under Icelandic rift zones. <i>American Mineralogist</i> , 2017, 102, 777-794.	1.9	247
2	Crystal-Melt Relationships and the Record of Deep Mixing and Crystallization in the ad 1783 Laki Eruption, Iceland. <i>Journal of Petrology</i> , 2013, 54, 1661-1690.	2.8	97
3	Melting, Differentiation and Degassing at the Pantelleria Volcano, Italy. <i>Journal of Petrology</i> , 2012, 53, 637-663.	2.8	78
4	Crystal Storage and Transfer in Basaltic Systems: the Skuggafjall Eruption, Iceland. <i>Journal of Petrology</i> , 2014, 55, 2311-2346.	2.8	69
5	Clinopyroxene-Liquid Equilibria and Geothermobarometry in Natural and Experimental Tholeiites: the 2014-2015 Holuhraun Eruption, Iceland. <i>Journal of Petrology</i> , 2019, 60, 1653-1680.	2.8	61
6	Melt inclusion constraints on petrogenesis of the 2014-2015 Holuhraun eruption, Iceland. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 10.	3.1	51
7	Diffusive over-hydration of olivine-hosted melt inclusions. <i>Earth and Planetary Science Letters</i> , 2015, 425, 168-178.	4.4	49
8	Magmatic evolution biases basaltic records of mantle chemistry towards melts from recycled sources. <i>Earth and Planetary Science Letters</i> , 2019, 520, 199-211.	4.4	47
9	Volatile and light lithophile elements in high-anorthite plagioclase-hosted melt inclusions from Iceland. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 205, 100-118.	3.9	38
10	Petrology and geochemistry of the 2014-2015 Holuhraun eruption, central Iceland: compositional and mineralogical characteristics, temporal variability and magma storage. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	3.1	38
11	The evolution and storage of primitive melts in the Eastern Volcanic Zone of Iceland: the 10ka Gr�msv�tn tephra series (i.e. the Saksunarvatn ash). <i>Contributions To Mineralogy and Petrology</i> , 2015, 170, 1.	3.1	36
12	On the Feasibility of Imaging Carbonatite-Hosted Rare Earth Element Deposits Using Remote Sensing. <i>Economic Geology</i> , 2016, 111, 641-665.	3.8	36
13	Mantle-derived trace element variability in olivines and their melt inclusions. <i>Earth and Planetary Science Letters</i> , 2018, 483, 90-104.	4.4	35
14	Continuous mush disaggregation during the long-lasting Laki fissure eruption, Iceland. <i>American Mineralogist</i> , 2017, 102, 2007-2021.	1.9	32
15	The Effect of Anorthite Content and Water on Quartz-Feldspar Cotectic Compositions in the Rhyolitic System and Implications for Geobarometry. <i>Journal of Petrology</i> , 2017, 58, 789-818.	2.8	32
16	Melt mixing causes negative correlation of trace element enrichment and CO2 content prior to an Icelandic eruption. <i>Earth and Planetary Science Letters</i> , 2014, 400, 272-283.	4.4	31
17	Integrated Petrological and Geophysical Constraints on Magma System Architecture in the Western Gal�pagos Archipelago: Insights From Wolf Volcano. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 4722-4743.	2.5	31
18	Volatile dilution during magma injections and implications for volcano explosivity. <i>Geology</i> , 2016, 44, 1027-1030.	4.4	28

#	ARTICLE	IF	CITATIONS
19	How to fragment peralkaline rhyolites: Observations on pumice using combined multi-scale 2D and 3D imaging. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 336, 179-191.	2.1	23
20	Cryptic evolved melts beneath monotonous basaltic shield volcanoes in the Galápagos Archipelago. <i>Nature Communications</i> , 2020, 11, 3767.	12.8	20
21	Dendritic crystallization in hydrous basaltic magmas controls magma mobility within the Earth's crust. <i>Nature Communications</i> , 2022, 13, .	12.8	17
22	Chemical variability in peralkaline magmas and magma reservoirs: insights from the Khaggiar lava flow, Pantelleria, Italy. <i>Contributions To Mineralogy and Petrology</i> , 2020, 175, 1.	3.1	12
23	Formation of Igneous Layering in the Lower Oceanic Crust From the Samail Ophiolite, Sultanate of Oman. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB019573.	3.4	12
24	Clinopyroxene Dissolution Records Rapid Magma Ascent. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	10
25	Geochemical constraints on basalt petrogenesis in the Strait of Sicily Rift Zone (Italy): Insights into the importance of short lengthscale mantle heterogeneity. <i>Chemical Geology</i> , 2020, 545, 119650.	3.3	9
26	DFENS: Diffusion Chronometry Using Finite Elements and Nested Sampling. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009303.	2.5	8
27	Editorial: Crystal Archives of Magmatic Processes. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	8
28	Zoned Crystal Records of Transcrustal Magma Transport, Storage and Differentiation: Insights from the Shatsky Rise Oceanic Plateau. <i>Journal of Petrology</i> , 2020, 61, .	2.8	6
29	Conditions and Dynamics of Magma Storage in the Snæfellsnes Volcanic Zone, Western Iceland: Insights from the Báðahraun and Berserkjahraun Eruptions. <i>Journal of Petrology</i> , 2021, 62, .	2.8	5
30	Mixing between chemically variable primitive basalts creates and modifies crystal cargoes. <i>Nature Communications</i> , 2021, 12, 5495.	12.8	5
31	Rifting and recharge as triggers of the mixed basaltic-rhyolite Halarauður ignimbrite eruption (Krafla). <i>Tj ETQq1 1,0,784314,rgBT /O</i>	3.1	3
32	Rhyolite-MELTS vs DERP – Reply to Comment by Gualda et al. on ‘The Effect of Anorthite Content and Water on Quartz-Feldspar Cotectic Compositions in the Rhyolitic System and Implications for Geobarometry’ by Wilke et al. (2017), <i>Journal of Petrology</i> , 58, No. 4, 789–818. <i>Journal of Petrology</i> , 2019, 60, 865-870.	2.8	2