

# David A Neave

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Rifting and recharge as triggers of the mixed basaltic-rhyolite Halarauur ignimbrite eruption (Krafla), Tj ETQq1 1,0,784314,rgBT /Ove	3.1	3
2	Dendritic crystallization in hydrous basaltic magmas controls magma mobility within the Earth's crust. Nature Communications, 2022, 13, .	12.8	17
3	Formation of Igneous Layering in the Lower Oceanic Crust From the Samail Ophiolite, Sultanate of Oman. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB019573.	3.4	12
4	DFENS: Diffusion Chronometry Using Finite Elements and Nested Sampling. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009303.	2.5	8
5	Conditions and Dynamics of Magma Storage in the Snæfellsnes Volcanic Zone, Western Iceland: Insights from the Báðahraun and Berserkjahraun Eruptions. Journal of Petrology, 2021, 62, .	2.8	5
6	Editorial: Crystal Archives of Magmatic Processes. Frontiers in Earth Science, 2021, 9, .	1.8	8
7	Mixing between chemically variable primitive basalts creates and modifies crystal cargoes. Nature Communications, 2021, 12, 5495.	12.8	5
8	Zoned Crystal Records of Transcrustal Magma Transport, Storage and Differentiation: Insights from the Shatsky Rise Oceanic Plateau. Journal of Petrology, 2020, 61, .	2.8	6
9	Cryptic evolved melts beneath monotonous basaltic shield volcanoes in the Galápagos Archipelago. Nature Communications, 2020, 11, 3767.	12.8	20
10	Geochemical constraints on basalt petrogenesis in the Strait of Sicily Rift Zone (Italy): Insights into the importance of short lengthscale mantle heterogeneity. Chemical Geology, 2020, 545, 119650.	3.3	9
11	Clinopyroxene Dissolution Records Rapid Magma Ascent. Frontiers in Earth Science, 2020, 8, .	1.8	10
12	Chemical variability in peralkaline magmas and magma reservoirs: insights from the Khaggiar lava flow, Pantelleria, Italy. Contributions To Mineralogy and Petrology, 2020, 175, 1.	3.1	12
13	Clinopyroxene-Liquid Equilibria and Geothermobarometry in Natural and Experimental Tholeiites: the 2014-2015 Holuhraun Eruption, Iceland. Journal of Petrology, 2019, 60, 1653-1680.	2.8	61
14	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), Journal of Petrology, 58, No. 4, 789-818. Journal of Petrology, 2019, 60, 865-870.	2.8	2
15	Magmatic evolution biases basaltic records of mantle chemistry towards melts from recycled sources. Earth and Planetary Science Letters, 2019, 520, 199-211.	4.4	47
16	Melt inclusion constraints on petrogenesis of the 2014-2015 Holuhraun eruption, Iceland. Contributions To Mineralogy and Petrology, 2018, 173, 10.	3.1	51
17	Mantle-derived trace element variability in olivines and their melt inclusions. Earth and Planetary Science Letters, 2018, 483, 90-104.	4.4	35
18	Integrated Petrological and Geophysical Constraints on Magma System Architecture in the Western Galápagos Archipelago: Insights From Wolf Volcano. Geochemistry, Geophysics, Geosystems, 2018, 19, 4722-4743.	2.5	31

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19	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
20	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
21	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
22	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
23	Continuous mush disaggregation during the long-lasting Laki fissure eruption, Iceland. <i>American Mineralogist</i> , 2017, 102, 2007-2021.	1.9	32
24	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
25	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
26	Volatile dilution during magma injections and implications for volcano explosivity. <i>Geology</i> , 2016, 44, 1027-1030.	4.4	28
27	Diffusive over-hydration of olivine-hosted melt inclusions. <i>Earth and Planetary Science Letters</i> , 2015, 425, 168-178.	4.4	49
28	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
29	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
30	Crystal Storage and Transfer in Basaltic Systems: the Skuggafj�ll Eruption, Iceland. <i>Journal of Petrology</i> , 2014, 55, 2311-2346.	2.8	69
31	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
32	Melting, Differentiation and Degassing at the Pantelleria Volcano, Italy. <i>Journal of Petrology</i> , 2012, 53, 637-663.	2.8	78