

Roger L Nielsen

List of Publications by Year in descending order

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25
papers

1,074
citations

516215

16
h-index

610482

24
g-index

25
all docs

25
docs citations

25
times ranked

949
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimentally determined mineral-melt partition coefficients for Sc, Y and REE for olivine, orthopyroxene, pigeonite, magnetite and ilmenite. Contributions To Mineralogy and Petrology, 1992, 110, 488-499.	1.2	191
2	Comagmat: a Fortran program to model magma differentiation processes. Computers and Geosciences, 1993, 19, 1155-1170.	2.0	187
3	Near-primary melt inclusions in anorthite phenocrysts from the Galapagos Platform. Earth and Planetary Science Letters, 1993, 119, 527-537.	1.8	88
4	Local and regional variation of MORB parent magmas: evidence from melt inclusions from the Endeavour Segment of the Juan de Fuca Ridge. Contributions To Mineralogy and Petrology, 1999, 134, 342-363.	1.2	71
5	Chemical and Physical Indicators of Compromised Melt Inclusions. Geochimica Et Cosmochimica Acta, 1998, 62, 831-839.	1.6	59
6	Determination of sulfur speciation and oxidation state of olivine hosted melt inclusions. Chemical Geology, 2007, 236, 303-322.	1.4	57
7	Evidence for adiabatic decompression melting in the Southern Mariana Arc from high-Mg lavas and melt inclusions. Contributions To Mineralogy and Petrology, 2006, 152, 201-221.	1.2	50
8	The petrogenesis of plagioclase-phyric basalts at mid-ocean ridges. Geochemistry, Geophysics, Geosystems, 2013, 14, 3282-3296.	1.0	42
9	Melt inclusions as indicators of parental magma diversity on the northern East Pacific Rise. Chemical Geology, 2002, 183, 237-261.	1.4	41
10	Low-pressure phase equilibria of anhydrous anorthite-bearing mafic magmas. Geochemistry, Geophysics, Geosystems, 2003, 4, .	1.0	40
11	Depleted melt inclusions in MORB plagioclase: messages from the mantle or mirages from the magma chamber?. Chemical Geology, 2002, 183, 43-61.	1.4	39
12	Melt inclusion formation mechanisms and compositional effects in high-An feldspar and high-Fo olivine in anhydrous mafic silicate liquids. Contributions To Mineralogy and Petrology, 2004, 147, 684-704.	1.2	38
13	Diverse Sr isotope signatures preserved in mid-oceanic-ridge basalt plagioclase. Geology, 2013, 41, 279-282.	2.0	34
14	Trace element partitioning between plagioclase and melt: An investigation of the impact of experimental and analytical procedures. Geochemistry, Geophysics, Geosystems, 2017, 18, 3359-3384.	1.0	27
15	Role of a Cl-bearing flux in the origin of depleted ocean floor magmas. Geochemistry, Geophysics, Geosystems, 2000, 1, .	1.0	25
16	The effects of re-homogenization on plagioclase hosted melt inclusions. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	1.0	21
17	Origin of minor and trace element compositional diversity in anorthitic feldspar phenocrysts and melt inclusions from the Juan de Fuca Ridge. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	1.0	15
18	Upper mantle origin of plagioclase megacrysts from plagioclase-ultraphyric mid-oceanic ridge basalt. Geology, 2019, 47, 43-46.	2.0	13

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19	Trace Element and Isotopic Characteristics of Plagioclase Megacrysts in Plagioclase Ultraphyric Basalts (PUB). <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008638.	1.0	13
20	Anomalously low sodium MORB magmas: Evidence for depleted MORB or analytical artifact?. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 5023-5026.	1.6	8
21	Reequilibration Processes Occurring in Plagioclase-Hosted Melt Inclusions From Plagioclase Ultraphyric Basalts. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 109-119.	1.0	7
22	Experimentally Induced Volumetric Re-equilibration of Plagioclase-Hosted Melt Inclusions. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, .	1.0	3
23	Experimental Constraints on Homogenization of Plagioclase-Hosted Melt Inclusions From Plagioclase Ultraphyric Basalts. <i>Frontiers in Earth Science</i> , 2021, 8, .	0.8	2
24	The Missing Magmas of MOR: Insights From Phase Equilibrium Experiments on Plagioclase Ultraphyric Basalts. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	1.0	2
25	TEXTURAL AND COMPOSITIONAL FEATURES OF PLAGIOCLASE AND MAFIC PHASES OF PLAGIOCLASE ULTRAPHYRIC BASALTS (PUB) FROM THE NE PACIFIC RIDGE SYSTEM. , 2021, , .		1