

R R Almeev

List of Publications by Year in descending order

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58
papers

2,081
citations

257450

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h-index

243625

44
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59
all docs

59
docs citations

59
times ranked

1771
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental evidence for rapid water exchange between melt inclusions in olivine and host magma. <i>Earth and Planetary Science Letters</i> , 2008, 272, 541-552.	4.4	214
2	Solubility of H ₂ O- and CO ₂ -bearing fluids in tholeiitic basalts at pressures up to 500MPa. <i>Chemical Geology</i> , 2010, 277, 115-125.	3.3	175
3	Phase Relations and Liquid Lines of Descent in Hydrous Ferrobasalt--Implications for the Skaergaard Intrusion and Columbia River Flood Basalts. <i>Journal of Petrology</i> , 2008, 49, 1687-1727.	2.8	161
4	Subduction initiation and ophiolite crust: new insights from IODP drilling. <i>International Geology Review</i> , 2017, 59, 1439-1450.	2.1	145
5	The effect of H ₂ O on olivine crystallization in MORB: Experimental calibration at 200 MPa. <i>American Mineralogist</i> , 2007, 92, 670-674.	1.9	113
6	Magmatic Response to Subduction Initiation: Part 1. Forearc Basalts of the Izu-Bonin Arc From IODP Expedition 352. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 314-338.	2.5	113
7	Compositional and pressure effects on the solubility of H ₂ O and CO ₂ in mafic melts. <i>Chemical Geology</i> , 2014, 388, 112-129.	3.3	98
8	Experimental calibration of the effect of H ₂ O on plagioclase crystallization in basaltic melt at 200 MPa. <i>American Mineralogist</i> , 2012, 97, 1234-1240.	1.9	71
9	High-temperature, low-H ₂ O Silicic Magmas of the Yellowstone Hotspot: an Experimental Study of Rhyolite from the Bruneau-Jarvis Eruptive Center, Central Snake River Plain, USA. <i>Journal of Petrology</i> , 2012, 53, 1837-1866.	2.8	60
10	Magmatic Response to Subduction Initiation, Part II: Boninites and Related Rocks of the Izu-Bonin Arc From IODP Expedition 352. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, .	2.5	52
11	The Effect of H ₂ O and Pressure on Multiple Saturation and Liquid Lines of Descent in Basalt from the Shatsky Rise. <i>Journal of Petrology</i> , 2016, 57, 309-344.	2.8	42
12	A Practical Method for Accurate Measurement of Trace Level Fluorine in Mg- and Fe-bearing Minerals and Glasses Using Electron Probe Microanalysis. <i>Geostandards and Geoanalytical Research</i> , 2016, 40, 351-363.	3.1	41
13	Depths of Partial Crystallization of H ₂ O-bearing MORB: Phase Equilibria Simulations of Basalts at the MAR near Ascension Island (7°N, 11°W). <i>Journal of Petrology</i> , 2008, 49, 25-45.	2.8	38
14	Decoding crystal fractionation in calc-alkaline magmas from the Bezymianny Volcano (Kamchatka, Russia). <i>Contributions To Mineralogy and Petrology</i> , 2013, 263, 141-171.	2.1	37
15	Ti-in-quartz thermobarometry and TiO ₂ solubility in rhyolitic melts: New experiments and parametrization. <i>Earth and Planetary Science Letters</i> , 2020, 538, 116213.	4.4	36
16	Storage conditions of Bezymianny Volcano parental magmas: results of phase equilibria experiments at 100 and 700 MPa. <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 1389-1414.	3.1	35
17	Dehydration of melt inclusions in olivine and implications for the origin of silica-undersaturated island-arc melts. <i>Earth and Planetary Science Letters</i> , 2019, 517, 95-105.	4.4	32
18	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

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19	Expedition 352 methods. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	32
20	Experimental calibration and implications of olivine-melt vanadium oxybarometry for hydrous basaltic arc magmas. <i>American Mineralogist</i> , 2018, 103, 369-383.	1.9	32
21	Experimental constraints on ultrapotassic magmatism from the Bohemian Massif (durbachite series,) Tj ETQq1 1 0.784314 rgBT /Over	3.1	31
22	Storage conditions and evolution of andesitic magma prior to the 1991â€“95 eruption of Unzen volcano: Constraints from natural samples and phase equilibria experiments. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 175, 168-180.	2.1	29
23	The Blacktail Creek Tuff: an analytical and experimental study of rhyolites from the Heise volcanic field, Yellowstone hotspot system. <i>Contributions To Mineralogy and Petrology</i> , 2015, 169, 1.	3.1	29
24	Test of the Ballhausâ€“Berryâ€“Green Olâ€“Opxâ€“Sp oxybarometer and calibration of a new equation for estimating the redox state of melts saturated with olivine and spinel. <i>Geochemistry International</i> , 2016, 54, 301-320.	0.7	28
25	The role of polybaric crystallization in genesis of andesitic magmas: Phase equilibria simulations of the Bezymianny volcanic subseries. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 263, 182-192.	2.1	27
26	Geothermobarometry of basaltic glasses from the Tamu Massif, Shatsky Rise oceanic plateau. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3908-3928.	2.5	26
27	Hydrothermal activity at the ultraslow- to slow-spreading Red Sea Rift traced by chlorine in basalt. <i>Chemical Geology</i> , 2015, 405, 63-81.	3.3	26
28	Role of magma mixing in the pre-eruptive dynamics of the Aeolian Islands volcanoes (Southern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	1.4	26
29	High spatial resolution analysis of the iron oxidation state in silicate glasses using the electron probe. <i>American Mineralogist</i> , 2018, 103, 1473-1486.	1.9	23
30	Magma Source Evolution Following Subduction Initiation: Evidence From the Element Concentrations, Stable Isotope Ratios, and Water Contents of Volcanic Glasses From the Bonin Forearc (IODP Expedition 352). <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009054.	2.5	22
31	Experimental study into the petrogenesis of crystal-rich basaltic to andesitic magmas at Arenal volcano. <i>Contributions To Mineralogy and Petrology</i> , 2014, 168, 1.	3.1	20
32	Electron microprobe technique for the determination of iron oxidation state in silicate glasses. <i>American Mineralogist</i> , 2018, 103, 1445-1454.	1.9	20
33	Chlorine-rich amphibole in deep layered gabbros as evidence for brine/rock interaction in the lower oceanic crust: A case study from the Wadi Wariyah, Samail Ophiolite, Sultanate of Oman. <i>Lithos</i> , 2018, 223, 125-136.	1.4	16
34	Zircon melt inclusions in mafic and felsic rocks of the Bushveld Complex â€“ Constraints for zircon crystallization temperatures and partition coefficients. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 289, 158-181.	3.9	16
35	Physical properties and seismic structure of <sc>lzu</sc>â€“<sc>B</sc>oninâ€“<sc>M</sc>ariana foreâ€“arc crust: Results from IODP <sc>E</sc>xpedition 352 and comparison with oceanic crust. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4973-4991.	2.5	15
36	Covariation of Slab Tracers, Volatiles, and Oxidation During Subduction Initiation. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009823.	2.5	15

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37	INFOREX-3.0: A database on experimental studies of phase equilibria in igneous rocks and synthetic systems: II. Data description and petrological applications. <i>Computers and Geosciences</i> , 1996, 22, 1073-1082.	4.2	14
38	Electron probe microanalysis of Fe ²⁺ /ΣFe ratios in calcic and sodic-calcic amphibole and biotite using the flank method. <i>Chemical Geology</i> , 2019, 509, 152-162.	3.3	14
39	Massive basalt flows on the southern flank of Tamu Massif, Shatsky Rise: a reappraisal of ODP Site 1213 basement units. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 2010, , .	1.0	13
40	Electron Probe Microanalysis of Bromine in Minerals and Glasses with Correction for Spectral Interference from Aluminium, and Comparison with Microbeam Synchrotron X-Ray Fluorescence Spectrometry. <i>Geostandards and Geoanalytical Research</i> , 2017, 41, 449-457.	3.1	13
41	GeoBalance: An Excel VBA program for mass balance calculation in geosciences. <i>Chemie Der Erde</i> , 2020, 80, 125629.	2.0	11
42	Lower crustal hydrothermal circulation at slow-spreading ridges: evidence from chlorine in Arctic and South Atlantic basalt glasses and melt inclusions. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	3.1	10
43	Expedition 352 summary. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	9
44	Site U1439. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	9
45	Experimental investigation of the effect of Ca, Fe and Ti on cotectic compositions of the rhyolitic system. <i>European Journal of Mineralogy</i> , 2015, 27, 147-159.	1.3	8
46	Interaction of highly saline fluid and olivine gabbro: Experimental simulation of deep hydrothermal processes involving amphibole at the base of the oceanic crust. <i>Lithos</i> , 2018, 323, 91-102.	1.4	6
47	Improvement of Electron Probe Microanalysis of Boron Concentration in Silicate Glasses. <i>Microscopy and Microanalysis</i> , 2019, 25, 874-882.	0.4	6
48	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
49	Site U1440. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	6
50	Site U1441. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	5
51	Site U1442. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	5
52	Formation mechanisms of macroscopic globules in andesitic glasses from the Izu Bonin Mariana forearc (IODP Expedition 352). <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	4
53	Automated Segmentation of Olivine Phenocrysts in a Volcanic Rock Thin Section Using a Fully Convolutional Neural Network. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	3
54	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

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55	FORE-ARC BASALT TO BONINITE MAGMATISM: CHARACTERIZING THE TRANSITION FROM DECOMPRESSION TO FLUID FLUX MELTING AFTER SUBDUCTION INITIATION. , 2017, , .		2
56	Partition of Ti between quartz and silicate melt. Reply to: Comment on Zhang et al., "Ti-in-quartz thermobarometry and TiO ₂ solubility in rhyolitic melts: New experiments and parametrization". Earth and Planetary Science Letters, 2021, 561, 116846.	4.4	0
57	GENERATION OF A-TYPE RHYOLITE FROM MELTING OF S-/I-TYPE SOURCES DURING HYBRIDIZATION PROCESSES WITH THOLEIITIC MAGMAS. , 2019, , .		0
58	Oceanic Intraplate Volcanism 2.0: LAB Melt Lavas in the NW Atlantic. , 2020, , .		0