

Pavel Yu Plechov

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,414
citations

687363

13
h-index

330143

37
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41
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41
docs citations

41
times ranked

1321
citing authors

#	ARTICLE	IF	CITATIONS
1	Petrolog3: Integrated software for modeling crystallization processes. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	431
2	Constraints on mantle melting and composition and nature of slab components in volcanic arcs from volatiles (H ₂ O, S, Cl, F) and trace elements in melt inclusions from the Kamchatka Arc. <i>Earth and Planetary Science Letters</i> , 2007, 255, 53-69.	4.4	274
3	Systematics of calcium partitioning between olivine and silicate melt: implications for melt structure and calcium content of magmatic olivines. <i>Contributions To Mineralogy and Petrology</i> , 1999, 136, 63-80.	3.1	169
4	Plagioclase zoning as an indicator of magma processes at Bezymianny Volcano, Kamchatka. <i>Contributions To Mineralogy and Petrology</i> , 2011, 162, 83-99.	3.1	96
5	The 2001–2004 dome-forming eruption of Shiveluch volcano, Kamchatka: Observation, petrological investigation and numerical modelling. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 155, 201-226.	2.1	76
6	Petrology and volatile content of magmas erupted from Tolbachik Volcano, Kamchatka, 2012–13. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 307, 182-199.	2.1	42
7	Opacitization conditions of hornblende in Bezymiannyi volcano andesites (March 30, 1956 eruption). <i>Petrology</i> , 2008, 16, 19-35.	0.9	37
8	Melt evolution in subarc mantle: evidence from heating experiments on spinel-hosted melt inclusions in peridotite xenoliths from the andesitic Avacha volcano (Kamchatka, Russia). <i>Contributions To Mineralogy and Petrology</i> , 2011, 162, 1159-1174.	3.1	37
9	Along-arc variations in lithospheric mantle compositions in Kamchatka, Russia: First trace element data on mantle xenoliths from the Klyuchevskoy Group volcanoes. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 263, 122-131.	2.1	34
10	Chromium spinel in Late Quaternary volcanic rocks from Kamchatka: Implications for spatial compositional variability of subarc mantle and its oxidation state. <i>Lithos</i> , 2018, 322, 212-224.	1.4	23
11	Extremely magnesian olivine in igneous rocks. <i>Russian Geology and Geophysics</i> , 2018, 59, 1702-1717.	0.7	19
12	Anatomy of the Bezymianny volcano merely before an explosive eruption on 20.12.2017. <i>Scientific Reports</i> , 2021, 11, 1758.	3.3	19
13	Compositions and Formation Conditions of Primitive Magmas of the Karymsky Volcanic Center, Kamchatka: Evidence from Melt Inclusions and Trace-Element Thermobarometry. <i>Petrology</i> , 2019, 27, 243-264.	0.9	15
14	Removing a mask of alteration: Geochemistry and age of the Karadag volcanic sequence in SE Crimea. <i>Lithos</i> , 2019, 324-325, 371-384.	1.4	13
15	Formation conditions of allivalites, olivine-anorthite crystal enclaves, in the volcanics of the Kuril-Kamchatka arc. <i>Petrology</i> , 2008, 16, 232-260.	0.9	12
16	Vitamin B12 and folate deficiency anaemia associated with isotretinoin treatment for acne. <i>Clinical and Experimental Dermatology</i> , 2006, 31, 599-599.	1.3	11
17	Petrology of mafic enclaves in the 2006–2012 eruptive products of Bezymianny Volcano, Kamchatka. <i>Petrology</i> , 2017, 25, 592-614.	0.9	11
18	Petrology of mantle xenoliths in rocks of the Bezymiannyi Volcano (Kamchatka). <i>Doklady Earth Sciences</i> , 2010, 434, 1317-1320.	0.7	9

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19	Phase equilibria constraints on pre-eruptive magma storage conditions for the 1956 eruption of Bezymianny Volcano, Kamchatka, Russia. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 263, 132-140.	2.1	8
20	Garnet-Pyroxenite-Derived End-Member Magma Type in Kamchatka: Evidence from Composition of Olivine and Olivine-Hosted Melt Inclusions in Holocene Rocks of Kekuknaisky Volcano. <i>Petrology</i> , 2018, 26, 329-350.	0.9	8
21	New Data on Chemical Composition and Vibrational Spectra of Magnetoplumbite-Group Minerals. <i>Geology of Ore Deposits</i> , 2019, 61, 637-646.	0.7	8
22	Evolution of melt composition during intrusion of basalts into a silicic magma chamber. <i>Moscow University Geology Bulletin</i> , 2008, 63, 247-257.	0.3	7
23	The Timescales of Magma Mixing in the Plumbing System of Bezymianny Volcano (Kamchatka): Insights from Diffusion Chronometry. <i>Moscow University Geology Bulletin</i> , 2018, 73, 444-450.	0.3	7
24	Magma degassing during 7600 14C Kurile Lake caldera-forming eruption and its climatic impact. <i>Doklady Earth Sciences</i> , 2010, 433, 974-977.	0.7	5
25	Extreme-Mg olivines from venancite lavas of Pian di Celle volcano (Italy). <i>Doklady Earth Sciences</i> , 2017, 474, 507-510.	0.7	5
26	Composition and conditions of formation of the parental melts of Jurassic dolerites of southwestern Crimea: Evidence from melt inclusions in olivine phenocrysts. <i>Petrology</i> , 2017, 25, 272-303.	0.9	5
27	New Data on Epidote-Supergroup Minerals: Unusual Chemical Compositions, Typochemistry, and Raman Spectroscopy. <i>Geology of Ore Deposits</i> , 2019, 61, 827-842.	0.7	5
28	Numerical simulation of plagioclase rim growth during magma ascent at Bezymianny Volcano, Kamchatka. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 263, 172-181.	2.1	4
29	Parental melts of the last volcanic pulse in the Sedanka field, Sredinny Range, Kamchatka. <i>Moscow University Geology Bulletin</i> , 2015, 70, 233-239.	0.3	4
30	The Chenka sandstone Sequence (Lower Jurassic) of the Crimean Mountains: Stratigraphy and depositional environments. <i>Moscow University Geology Bulletin</i> , 2014, 69, 308-316.	0.3	3
31	The character of the volcanic activity in southwestern Crimea during the Late Albian. <i>Moscow University Geology Bulletin</i> , 2014, 69, 299-307.	0.3	3
32	The petrology of the Upper Albian tuffites from the Bakhchysarai district, southwestern Crimea. <i>Moscow University Geology Bulletin</i> , 2016, 71, 194-204.	0.3	3
33	Comparison of one- and two-stage models of porphyry copper deposition. <i>Moscow University Geology Bulletin</i> , 2017, 72, 332-338.	0.3	3
34	High-K basaltic trachyandesite xenoliths in pyroclastic deposits from the Bezymianny volcano (Kamchatka). <i>Russian Geology and Geophysics</i> , 2018, 59, 1087-1099.	0.7	3
35	Test determinations of paleointensity in historical lavas of Kamchatka. <i>Izvestiya, Physics of the Solid Earth</i> , 2017, 53, 162-172.	0.9	2
36	The origin of the Late Quaternary back-arc volcanic rocks from Kamchatka: evidence from the compositions of olivine and olivine-hosted melt inclusions. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	2

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37	A New Scandium-Bearing Variety of Tusonite from the Eastern Pamirs (Tajikistan). <i>Geology of Ore Deposits</i> , 2019, 61, 809-817.	0.7	1
38	Peculiarities of the irisation in precious opals in view of their mosaicâ€‘cluster (frustumation) inner fabric. <i>Doklady Earth Sciences</i> , 2016, 467, 415-417.	0.7	0
39	The Nature of the Protolith of the Quartzâ€‘Carbonateâ€‘Dickite Metasomatites from the Bodrak and Alma Rivers Watershed and from the Trudolyubovka Area (Southwestern Crimea). <i>Moscow University Geology Bulletin</i> , 2019, 74, 44-49.	0.3	0
40	Low-Temperature Acidic Melts of Bazman Volcano (Iran). <i>Doklady Earth Sciences</i> , 2019, 485, 422-425.	0.7	0