

# Anastassia Y Borisova

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,790  
citations

279798

23  
h-index

265206

42  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1587  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hadean zircon formed due to hydrated ultramafic protocrust melting. <i>Geology</i> , 2022, 50, 300-304.	4.4	11
2	Experimental Study of Pt Solubility in the CO-CO <sub>2</sub> Fluid at Low fO <sub>2</sub> and Subsolidus Conditions of the Ultramafic-Mafic Intrusions. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 225.	2.0	9
3	Editorial: Magma-Rock and Magma-Mush Interactions as Fundamental Processes of Magmatic Differentiation. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	0
4	Hydrated Peridotite â€“ Basaltic Melt Interaction Part I: Planetary Felsic Crust Formation at Shallow Depth. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	7
5	Quantification of major and trace elements in fluid inclusions and gas bubbles by laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS) with no internal standard: a new method. <i>European Journal of Mineralogy</i> , 2021, 33, 305-314.	1.3	0
6	The trisulfur radical ion S <sub>3</sub> <sup>-</sup> controls platinum transport by hydrothermal fluids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	13
7	Experimental diopsidite: Implications for natural diopsidite genesis through fluid-melt-mantle peridotite reaction. <i>Mineralogy and Petrology</i> , 2021, 115, 489-495.	1.1	1
8	Derivation of Hawaiian rejuvenated magmas from deep carbonated mantle sources: A review of experimental and natural constraints. <i>Earth-Science Reviews</i> , 2021, 222, 103819.	9.1	4
9	Nature of the Kergelen Plateau and Its Place in the Structural Plan of the Southern Sector of the Indian Ocean. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2021, 57, 1322-1348.	0.9	2
10	Zircon survival in shallow asthenosphere and deep lithosphere. <i>American Mineralogist</i> , 2020, 105, 1662-1671.	1.9	23
11	Hydrated Peridotiteâ€“Basaltic Melt Interaction Part II: Fast Assimilation of Serpentinized Mantle by Basaltic Magma. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	6
12	Mineralogical and geochemical features of the Allan Hills tephra, South Victoria Land: Implications for mid-Pleistocene volcanic activity in Antarctica. <i>Polar Science</i> , 2020, 23, 100505.	1.2	2
13	West Australian Ridge (Indian Ocean): Microcontinent or Large Igneous Province?. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2020, 56, 1247-1272.	0.9	1
14	Proterozoic Kivakka layered mafic-ultramafic intrusion, Northern Karelia, Russia: Implications for the origin of granophyres of the upper boundary group. <i>Precambrian Research</i> , 2019, 331, 105381.	2.7	5
15	Multi-scale development of a stratiform chromite ore body at the base of the dunitic mantle-crust transition zone (Maqсад diapir, Oman ophiolite): The role of repeated melt and fluid influxes. <i>Lithos</i> , 2019, 350-351, 105235.	1.4	11
16	Experimental exploration of volcanic rocks-atmosphere interaction under Venus surface conditions. <i>Icarus</i> , 2019, 329, 8-23.	2.5	40
17	A New Model of the Ninety East Ridge Formation, Indian Ocean. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2019, 55, 1787-1802.	0.9	4
18	Secondary fluorescence effects in microbeam analysis and their impacts on geospeedometry and geothermometry. <i>Chemical Geology</i> , 2018, 490, 22-29.	3.3	25

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19	Anatomy of a chromitite dyke in the mantle/crust transition zone of the Oman ophiolite. <i>Lithos</i> , 2018, 312-313, 343-357.	1.4	16
20	&lt;i>In Situ&lt;/i> Analysis of Copper Alloys by Femtosecond Laser Ablation Inductively Coupled Plasma Mass Spectrometry: Constrains on Matrix Effects. <i>American Journal of Analytical Chemistry</i> , 2018, 09, 150-161.	0.9	1
21	Origin of primitive ocean island basalts by crustal gabbro assimilation and multiple recharge of plume-derived melts. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 2701-2716.	2.5	10
22	Oxygen isotope heterogeneity of arc magma recorded in plagioclase from the 2010 Merapi eruption (Central Java, Indonesia). <i>Geochimica Et Cosmochimica Acta</i> , 2016, 190, 13-34.	3.9	20
23	Commentary: Is the Neoproterozoic oxygen burst a supercontinent legacy?. <i>Frontiers in Earth Science</i> , 2015, 3, .	1.8	2
24	Sulfur radical species form gold deposits on Earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13484-13489.	7.1	107
25	Formation and Deformation of Pyrite and Implications for Gold Mineralization in the El Callao District, Venezuela. <i>Economic Geology</i> , 2014, 109, 457-486.	3.8	109
26	H <sub>2</sub> Oâ€CO <sub>2</sub> â€S fluid triggering the 1991 Mount Pinatubo climactic eruption (Philippines). <i>Bulletin of Volcanology</i> , 2014, 76, 1.	3.0	22
27	Lead isotope signatures of Kerguelen plume-derived olivine-hosted melt inclusions: Constraints on the ocean island basalt petrogenesis. <i>Lithos</i> , 2014, 198-199, 153-171.	1.4	13
28	Gold speciation and transport in geological fluids: insights from experiments and physical-chemical modelling. <i>Geological Society Special Publication</i> , 2014, 402, 9-70.	1.3	146
29	Speciation and Transport of Metals and Metalloids in Geological Vapors. <i>Reviews in Mineralogy and Geochemistry</i> , 2013, 76, 165-218.	4.8	137
30	Highly explosive 2010 Merapi eruption: Evidence for shallow-level crustal assimilation and hybrid fluid. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 261, 193-208.	2.1	49
31	Magmatic differentiation processes at Merapi Volcano: inclusion petrology and oxygen isotopes. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 261, 38-49.	2.1	49
32	6. Speciation and Transport of Metals and Metalloids in Geological Vapors. , 2013, , 165-218.		7
33	A New View on the Petrogenesis of the Oman Ophiolite Chromitites from Microanalyses of Chromite-hosted Inclusions. <i>Journal of Petrology</i> , 2012, 53, 2411-2440.	2.8	100
34	Processes controlling the 2010 Eyjafjallaj�kull explosive eruption. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	26
35	Tin and associated metal and metalloid geochemistry by femtosecond LA-ICP-QMS microanalysis of pegmatiteâ€leucogranite melt and fluid inclusions: new evidence for meltâ€meltâ€fluid immiscibility. <i>Mineralogical Magazine</i> , 2012, 76, 91-113.	1.4	54
36	<i>In Situ</i> Determination of Au and Cu in Natural Pyrite by Nearâ€Infrared Femtosecond Laser Ablationâ€Inductively Coupled Plasmaâ€Quadrupole Mass Spectrometry: No Evidence for Matrix Effects. <i>Geostandards and Geoanalytical Research</i> , 2012, 36, 315-324.	3.1	24

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37	Direct data on the ore potential of acid magmas of the Uzelâ€™ginskoe ore field (Southern Urals, Russia). <i>Doklady Earth Sciences</i> , 2012, 443, 401-405.	0.7	19
38	Multi-Elemental Analysis of ATHOâ€™G Rhyolitic Glass (MPIâ€™DING Reference Material) by Femtosecond and Nanosecond LAâ€™CPâ€™MS: Evidence for Significant Heterogeneity of B, V, Zn, Mo, Sn, Sb, Cs, W, Pt and Pb at the Millimetre Scale. <i>Geostandards and Geoanalytical Research</i> , 2010, 34, 245-255.	3.1	31
39	Amorphous Materials: Properties, Structure, and Durability: Arsenic enrichment in hydrous peraluminous melts: Insights from femtosecond laser ablation-inductively coupled plasma-quadrupole mass spectrometry, and in situ X-ray absorption fine structure spectroscopy. <i>American Mineralogist</i> , 2010, 95, 1095-1104.	1.9	43
40	In Situ Multi-Element Analysis of the Mount Pinatubo Quartz-Hosted Melt Inclusions by NIR Femtosecond Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry. <i>Geostandards and Geoanalytical Research</i> , 2008, 32, 209-229.	1.9	32
41	The effect of sulfur on vaporâ€™liquid fractionation of metals in hydrothermal systems. <i>Earth and Planetary Science Letters</i> , 2008, 266, 345-362.	4.4	179
42	<i>In situ</i> X-ray absorption spectroscopy measurement of vapour-brine fractionation of antimony at hydrothermal conditions. <i>Mineralogical Magazine</i> , 2008, 72, 667-681.	1.4	27
43	Trace element geochemistry of the 1991 Mt. Pinatubo silicic melts, Philippines: Implications for ore-forming potential of adakitic magmatism. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 3702-3716.	3.9	48
44	Antimony speciation in saline hydrothermal fluids: A combined X-ray absorption fine structure spectroscopy and solubility study. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 4196-4214.	3.9	75
45	Constraints on dacite magma degassing and regime of the June 15, 1991, climactic eruption of Mount Pinatubo (Philippines): New data on melt and crystal inclusions in quartz. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 145, 35-67.	2.1	29
46	Involvement of Continental Crust in the Formation of the Cretaceous Kerguelen Plateau: New Perspectives from ODP Leg 120 Sites. <i>Journal of Petrology</i> , 2002, 43, 1207-1239.	2.8	167
47	Melt, fluid and crystal inclusions in olivine phenocrysts from Kerguelen plume-derived picritic basalts: evidence for interaction with the Kerguelen Plateau lithosphere. <i>Chemical Geology</i> , 2002, 183, 195-220.	3.3	25
48	Petrogenesis of Olivine-phyric Basalts from the Aphanasey Nikitin Rise: Evidence for Contamination by Cratonic Lower Continental Crust. <i>Journal of Petrology</i> , 2001, 42, 277-319.	2.8	50