Anastassia Y Borisova

List of Publications by Year
in descending order

48	1,790	279798 23	265206 42
papers	citations	h-index	g-index

52	52	52	1587
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The effect of sulfur on vaporâ€“liquid fractionation of metals in hydrothermal systems. Earth and Planetary Science Letters, 2008, 266, 345-362.	4.4	179
2	Involvement of Continental Crust in the Formation of the Cretaceous Kerguelen Plateau: New Perspectives from ODP Leg 120 Sites. Journal of Petrology, 2002, 43, 1207-1239.	2.8	167
3	Gold speciation and transport in geological fluids: insights from experiments and physical-chemical modelling. Geological Society Special Publication, 2014, 402, 9-70.	1.3	146
4	Speciation and Transport of Metals and Metalloids in Geological Vapors. Reviews in Mineralogy and Geochemistry, 2013, 76, 165-218.	4.8	137
5	Formation and Deformation of Pyrite and Implications for Gold Mineralization in the El Callao District, Venezuela. Economic Geology, 2014, 109, 457-486.	3.8	109
6	Sulfur radical species form gold deposits on Earth. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13484-13489.	7.1	107
7	A New View on the Petrogenesis of the Oman Ophiolite Chromitites from Microanalyses of Chromite-hosted Inclusions. Journal of Petrology, 2012, 53, 2411-2440.	2.8	100
8	Antimony speciation in saline hydrothermal fluids: A combined X-ray absorption fine structure spectroscopy and solubility study. Geochimica Et Cosmochimica Acta, 2006, 70, 4196-4214.	3.9	75
9	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. Mineralogical Magazine, 2012, 76, 91-113.	1.4	54
10	Petrogenesis of Olivine-phyric Basalts from the Aphanasey Nikitin Rise: Evidence for Contamination by Cratonic Lower Continental Crust. Journal of Petrology, 2001, 42, 277-319.	2.8	50
11	Highly explosive 2010 Merapi eruption: Evidence for shallow-level crustal assimilation and hybrid fluid. Journal of Volcanology and Geothermal Research, 2013, 261, 193-208.	2.1	49
12	Magmatic differentiation processes at Merapi Volcano: inclusion petrology and oxygen isotopes. Journal of Volcanology and Geothermal Research, 2013, 261, 38-49.	2.1	49
13	Trace element geochemistry of the 1991 Mt. Pinatubo silicic melts, Philippines: Implications for ore-forming potential of adakitic magmatism. Geochimica Et Cosmochimica Acta, 2006, 70, 3702-3716.	3.9	48
14	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. American Mineralogist, 2010, 95, 1095-1104.	1.9	43
15	Experimental exploration of volcanic rocks-atmosphere interaction under Venus surface conditions. Icarus, 2019, 329, 8-23.	2.5	40
16	In Situ Multi-Element Analysis of the Mount Pinatubo Quartz-Hosted Melt Inclusions by NIR Femtosecond Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry. Geostandards and Geoanalytical Research, 2008, 32, 209-229.	1.9	32
17	Multiâ€Elemental Analysis of ATHOâ€G Rhyolitic Glass (MPIâ€DING Reference Material) by Femtosecond and Nanosecond LAâ€ICPâ€MS: Evidence for Significant Heterogeneity of B, V, Zn, Mo, Sn, Sb, Cs, W, Pt and Pb at the Millimetre Scale. Geostandards and Geoanalytical Research, 2010, 34, 245-255.	3.1	31
18	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. Journal of Volcanology and Geothermal Research, 2005, 145, 35-67.	2.1	29

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19	In situ X-ray absorption spectroscopy measurement of vapour-brine fractionation of antimony at hydrothermal conditions. Mineralogical Magazine, 2008, 72, 667-681.	1.4	27
20	Processes controlling the 2010 EyjafjallajÃ¶kull explosive eruption. Journal of Geophysical Research, 2012, 117, .	3.3	26
21	Melt, fluid and crystal inclusions in olivine phenocrysts from Kerguelen plume-derived picritic basalts: evidence for interaction with the Kerguelen Plateau lithosphere. Chemical Geology, 2002, 183, 195-220.	3.3	25
22	Secondary fluorescence effects in microbeam analysis and their impacts on geospeedometry and geothermometry. Chemical Geology, 2018, 490, 22-29.	3.3	25
23	In Situ 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. Geostandards and Geoanalytical Research, 2012, 36, 315-324.	3.1	24
24	Zircon survival in shallow asthenosphere and deep lithosphere. American Mineralogist, 2020, 105, 1662-1671.	1.9	23
25	H2Oâ€“CO2â€“S fluid triggering the 1991 Mount Pinatubo climactic eruption (Philippines). Bulletin of Volcanology, 2014, 76, 1.	3.0	22
26	Oxygen isotope heterogeneity of arc magma recorded in plagioclase from the 2010 Merapi eruption (Central Java, Indonesia). Geochimica Et Cosmochimica Acta, 2016, 190, 13-34.	3.9	20
27	Direct data on the ore potential of acid magmas of the Uzelâ€™ginskoe ore field (Southern Urals, Russia). Doklady Earth Sciences, 2012, 443, 401-405.	0.7	19
28	Anatomy of a chromitite dyke in the mantle/crust transition zone of the Oman ophiolite. Lithos, 2018, 312-313, 343-357.	1.4	16
29	Lead isotope signatures of Kerguelen plume-derived olivine-hosted melt inclusions: Constraints on the ocean island basalt petrogenesis. Lithos, 2014, 198-199, 153-171.	1.4	13
30	The trisulfur radical ion S ₃ ^{â€¢â€“} controls platinum transport by hydrothermal fluids. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	13
31	Multi-scale development of a stratiform chromite ore body at the base of the dunitic mantle-crust transition zone (Maqsad diapir, Oman ophiolite): The role of repeated melt and fluid influxes. Lithos, 2019, 350-351, 105235.	1.4	11
32	Hadean zircon formed due to hydrated ultramafic protocrust melting. Geology, 2022, 50, 300-304.	4.4	11
33	Origin of primitive ocean island basalts by crustal gabbro assimilation and multiple recharge of plumeâ€derived melts. Geochemistry, Geophysics, Geosystems, 2017, 18, 2701-2716.	2.5	10
34	Experimental Study of Pt Solubility in the CO-CO2 Fluid at Low fO2 and Subsolidus Conditions of the Ultramafic-Mafic Intrusions. Minerals (Basel, Switzerland), 2021, 11, 225.	2.0	9
35	6. Speciation and Transport of Metals and Metalloids in Geological Vapors. , 2013, , 165-218.		7
36	Hydrated Peridotite â€“ Basaltic Melt Interaction Part I: Planetary Felsic Crust Formation at Shallow Depth. Frontiers in Earth Science, 2021, 9, .	1.8	7

#	Article	IF	Citations
37	Hydrated Peridotiteâ€“Basaltic Melt Interaction Part II: Fast Assimilation of Serpentinized Mantle by Basaltic Magma. Frontiers in Earth Science, 2020, 8, .	1.8	6
38	Proterozoic Kivakka layered mafic-ultramafic intrusion, Northern Karelia, Russia: Implications for the origin of granophyres of the upper boundary group. Precambrian Research, 2019, 331, 105381.	2.7	5
39	A New Model of the Ninety East Ridge Formation, Indian Ocean. Izvestiya - Atmospheric and Oceanic Physics, 2019, 55, 1787-1802.	0.9	4
40	Derivation of Hawaiian rejuvenated magmas from deep carbonated mantle sources: A review of experimental and natural constraints. Earth-Science Reviews, 2021, 222, 103819.	9.1	4
41	Commentary: Is the Neoproterozoic oxygen burst a supercontinent legacy?. Frontiers in Earth Science, 2015, 3, .	1.8	2
42	Mineralogical and geochemical features of the Allan Hills tephra, South Victoria Land: Implications for mid-Pleistocene volcanic activity in Antarctica. Polar Science, 2020, 23, 100505.	1.2	2
43	Nature of the Kergelen Plateau and Its Place in the Structural Plan of the Southern Sector of the Indian Ocean. Izvestiya - Atmospheric and Oceanic Physics, 2021, 57, 1322-1348.	0.9	2
44	Experimental diopsidite: Implications for natural diopsidite genesis through fluid-melt-mantle peridotite reaction. Mineralogy and Petrology, 2021, 115, 489-495.	1.1	1
45	<i>In Situ</i> Analysis of Copper Alloys by Femtosecond Laser Ablation Inductively Coupled Plasma Mass Spectrometry: Constrains on Matrix Effects. American Journal of Analytical Chemistry, 2018, 09, 150-161.	0.9	1
46	West Australian Ridge (Indian Ocean): Microcontinent or Large Igneous Province?. Izvestiya - Atmospheric and Oceanic Physics, 2020, 56, 1247-1272.	0.9	1
47	Editorial: Magma-Rock and Magma-Mush Interactions as Fundamental Processes of Magmatic Differentiation. Frontiers in Earth Science, 2021, 9, .	1.8	0
48	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. European Journal of Mineralogy, 2021, 33, 305-314.	1.3	0