Boris R Tagirov

List of Publications by Year
in descending order

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32	900	471509 17	454955 30
papers	citations	h-index	g-index

32	32	32	707
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The solubility of cooperite PtS(cr) at 25 â€“ 450ÂÂ°C, Psat â€“ 1000Âbar and hydrosulfide complexing of platinum in hydrothermal fluids. Chemical Geology, 2021, 559, 119968.	3.3	4
2	The Charge State of Pt in Binary Compounds and Synthetic Minerals Determined by X-ray Absorption Spectroscopy and Quantum Chemical Calculations. Minerals (Basel, Switzerland), 2021, 11, 79.	2.0	7
3	The state of platinum in pyrrhotite: X-ray absorption spectroscopy study and implications for the role of Fe sulfides as platinum carriers. Mineralogical Magazine, 2021, 85, 846-861.	1.4	6
4	Probing the Local Atomic Structure of In and Cu in Sphalerite by XAS Spectroscopy Enhanced by Reverse Monte Carlo Algorithm. Minerals (Basel, Switzerland), 2020, 10, 841.	2.0	1
5	The State of Trace Elements (In, Cu, Ag) in Sphalerite Studied by X-Ray Absorption Spectroscopy of Synthetic Minerals. Minerals (Basel, Switzerland), 2020, 10, 640.	2.0	11
6	The state of Au and As in pyrite studied by X-ray absorption spectroscopy of natural minerals and synthetic phases. Ore Geology Reviews, 2020, 121, 103475.	2.7	23
7	X-ray absorption spectroscopy study of the chemistry of Â«invisibleÂ» Au in arsenian pyrites. E3S Web of Conferences, 2019, 98, 05007.	0.5	1
8	Substitution mechanisms in In-, Au-, and Cu-bearing sphalerites studied by X-ray absorption spectroscopy of synthetic compounds and natural minerals. Mineralogical Magazine, 2019, 83, 435-451.	1.4	21
9	Platinum transport in chloride-bearing fluids and melts: Insights from in situ X-ray absorption spectroscopy and thermodynamic modeling. Geochimica Et Cosmochimica Acta, 2019, 254, 86-101.	3.9	24
10	The State of Platinum in Pyrite Studied by X-Ray Absorption Spectroscopy of Synthetic Crystals. Economic Geology, 2019, 114, 1649-1663.	3.8	13
11	Gold Transport in Hydrothermal Chloride-Bearing Fluids: Insights from in Situ X-ray Absorption Spectroscopy and ab Initio Molecular Dynamics. ACS Earth and Space Chemistry, 2019, 3, 240-261.	2.7	19
12	Hydrolysis and Complex Formation of Zr and Hf in Aqueous Solutions of HClO4, HCl, and NaOH in Equilibrium with Baddeleyite (Zr and Hf)O2(cr) at 250Â°C. Russian Journal of Physical Chemistry A, 2018, 92, 2159-2164.	0.6	4
13	Stability of AuCl2â^' from 25 to 1000 Â°C at Pressures to 5000 bar and Consequences for Hydrothermal Gold Mobilization. Minerals (Basel, Switzerland), 2018, 8, 286.	2.0	20
14	X-ray spectroscopy study of the chemical state of â€œinvisibleâ€•Au in synthetic minerals in the Fe-As-S system. American Mineralogist, 2017, 102, .	1.9	10
15	Composition and structure of Pt chloride complexes in hydrothermal solutions, according to X-ray absorption spectroscopy. Russian Journal of Physical Chemistry A, 2017, 91, 543-548.	0.6	5
16	Covellite CuS as a matrix for â€œinvisibleâ€•gold: X-ray spectroscopic study of the chemical state of Cu and Au in synthetic minerals. Geochimica Et Cosmochimica Acta, 2016, 191, 58-69.	3.9	25
17	Zr/Hf ratio in supercritical chloride fluids: Experimental study of zirconium and hafnium complexation at 450Â°C and 0.6â€“1 kbar. Petrology, 2015, 23, 93-101.	0.9	5
18	Thermodynamic properties of platinum chloride complexes in aqueous solutions: Derivation of consistent parameters from literature data and experiments on Pt(cr) solubility at 400â€“475Â°C and 1 kbar. Geochemistry International, 2015, 53, 327-340.	0.7	13

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19	â€œInvisibleâ€•gold in covellite (CuS): Synthesis and studies by EPMA, LA-ICP-MS, and XPS techniques. Doklady Earth Sciences, 2014, 459, 1381-1386.	0.7	11
20	The speciation and transport of palladium in hydrothermal fluids: Experimental modeling and thermodynamic constraints. Geochimica Et Cosmochimica Acta, 2013, 117, 348-373.	3.9	53
21	Hydrosulfide/sulfide complexes of zinc to 250Â°C and the thermodynamic properties of sphalerite. Chemical Geology, 2010, 269, 301-311.	3.3	57
22	Experimental data on the role of selenium in hydrothermal silver transport. Geochemistry International, 2009, 47, 628-633.	0.7	5
23	An in situ X-ray absorption spectroscopy study of gold-chloride complexing in hydrothermal fluids. Chemical Geology, 2009, 259, 17-29.	3.3	69
24	A new view on gold speciation in sulfur-bearing hydrothermal fluids from in situ X-ray absorption spectroscopy and quantum-chemical modeling. Geochimica Et Cosmochimica Acta, 2009, 73, 5406-5427.	3.9	123
25	A potentiometric study of the stability of aqueous yttriumâ€“acetate complexes from 25 to 175Â°C and 1â€“1000bar. Geochimica Et Cosmochimica Acta, 2007, 71, 1689-1708.	3.9	16
26	Experimental study of gold-hydrosulphide complexing in aqueous solutions at 350â€“500Â°C, 500 and 1000 bars using mineral buffers. Geochimica Et Cosmochimica Acta, 2005, 69, 2119-2132.	3.9	57
27	Experimental study of the stability of aluminate-borate complexes in hydrothermal solutions 1 1Associate editor: L. G. Benning. Geochimica Et Cosmochimica Acta, 2004, 68, 1333-1345.	3.9	33
28	Experimental study of aluminum speciation in fluoride-rich supercritical fluids. Geochimica Et Cosmochimica Acta, 2002, 66, 2013-2024.	3.9	34
29	A potentiometric study of Eu3+ complexation with acetate ligand from 25 to 170Â°C at Psat. Geochimica Et Cosmochimica Acta, 2002, 66, 3599-3613.	3.9	24
30	Aluminum speciation in crustal fluids revisited. Geochimica Et Cosmochimica Acta, 2001, 65, 3965-3992.	3.9	139
31	Standard ferricâ€“ferrous potential and stability of FeCl2+ to 90Â°C. Thermodynamic properties of Fe(aq)3+ and ferric-chloride species. Chemical Geology, 2000, 162, 193-219.	3.3	43
32	Geochemistry of natural and contaminated subsurface waters in fissured bed rocks of the Lake Karachai area, Southern Urals, Russia. Applied Geochemistry, 1998, 13, 921-939.	3.0	24