

# Boris R Tagirov

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

900  
citations

471509

17  
h-index

454955

30  
g-index

32  
all docs

32  
docs citations

32  
times ranked

707  
citing authors

#	ARTICLE	IF	CITATIONS
1	Aluminum speciation in crustal fluids revisited. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 3965-3992.	3.9	139
2	A new view on gold speciation in sulfur-bearing hydrothermal fluids from in situ X-ray absorption spectroscopy and quantum-chemical modeling. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5406-5427.	3.9	123
3	An in situ X-ray absorption spectroscopy study of gold-chloride complexing in hydrothermal fluids. <i>Chemical Geology</i> , 2009, 259, 17-29.	3.3	69
4	Experimental study of gold-hydrosulphide complexing in aqueous solutions at 350–500°C, 500 and 1000 bars using mineral buffers. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 2119-2132.	3.9	57
5	Hydrosulfide/sulfide complexes of zinc to 250°C and the thermodynamic properties of sphalerite. <i>Chemical Geology</i> , 2010, 269, 301-311.	3.3	57
6	The speciation and transport of palladium in hydrothermal fluids: Experimental modeling and thermodynamic constraints. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 117, 348-373.	3.9	53
7	Standard ferric–ferrous potential and stability of FeCl <sub>2</sub> + to 90°C. Thermodynamic properties of Fe(aq) <sub>3+</sub> and ferric-chloride species. <i>Chemical Geology</i> , 2000, 162, 193-219.	3.3	43
8	Experimental study of aluminum speciation in fluoride-rich supercritical fluids. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 2013-2024.	3.9	34
9	Experimental study of the stability of aluminate-borate complexes in hydrothermal solutions 1 Associate editor: L. G. Benning. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 1333-1345.	3.9	33
10	Covellite CuS as a matrix for “invisible” gold: X-ray spectroscopic study of the chemical state of Cu and Au in synthetic minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 191, 58-69.	3.9	25
11	Geochemistry of natural and contaminated subsurface waters in fissured bed rocks of the Lake Karachai area, Southern Urals, Russia. <i>Applied Geochemistry</i> , 1998, 13, 921-939.	3.0	24
12	A potentiometric study of Eu <sup>3+</sup> complexation with acetate ligand from 25 to 170°C at Psat. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 3599-3613.	3.9	24
13	Platinum transport in chloride-bearing fluids and melts: Insights from in situ X-ray absorption spectroscopy and thermodynamic modeling. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 254, 86-101.	3.9	24
14	The state of Au and As in pyrite studied by X-ray absorption spectroscopy of natural minerals and synthetic phases. <i>Ore Geology Reviews</i> , 2020, 121, 103475.	2.7	23
15	Substitution mechanisms in In-, Au-, and Cu-bearing sphalerites studied by X-ray absorption spectroscopy of synthetic compounds and natural minerals. <i>Mineralogical Magazine</i> , 2019, 83, 435-451.	1.4	21
16	Stability of AuCl <sub>2</sub> <sup>-</sup> from 25 to 1000 °C at Pressures to 5000 bar and Consequences for Hydrothermal Gold Mobilization. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 286.	2.0	20
17	Gold Transport in Hydrothermal Chloride-Bearing Fluids: Insights from in Situ X-ray Absorption Spectroscopy and ab Initio Molecular Dynamics. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 240-261.	2.7	19
18	A potentiometric study of the stability of aqueous yttrium–acetate complexes from 25 to 175°C and 1–1000bar. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 1689-1708.	3.9	16

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19	Thermodynamic properties of platinum chloride complexes in aqueous solutions: Derivation of consistent parameters from literature data and experiments on Pt(cr) solubility at 400–475°C and 1 kbar. <i>Geochemistry International</i> , 2015, 53, 327-340.	0.7	13
20	The State of Platinum in Pyrite Studied by X-Ray Absorption Spectroscopy of Synthetic Crystals. <i>Economic Geology</i> , 2019, 114, 1649-1663.	3.8	13
21	“Invisible” gold in covellite (CuS): Synthesis and studies by EPMA, LA-ICP-MS, and XPS techniques. <i>Doklady Earth Sciences</i> , 2014, 459, 1381-1386.	0.7	11
22	The State of Trace Elements (In, Cu, Ag) in Sphalerite Studied by X-Ray Absorption Spectroscopy of Synthetic Minerals. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 640.	2.0	11
23	X-ray spectroscopy study of the chemical state of “invisible” Au in synthetic minerals in the Fe-As-S system. <i>American Mineralogist</i> , 2017, 102, .	1.9	10
24	The Charge State of Pt in Binary Compounds and Synthetic Minerals Determined by X-ray Absorption Spectroscopy and Quantum Chemical Calculations. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 79.	2.0	7
25	The state of platinum in pyrrhotite: X-ray absorption spectroscopy study and implications for the role of Fe sulfides as platinum carriers. <i>Mineralogical Magazine</i> , 2021, 85, 846-861.	1.4	6
26	Experimental data on the role of selenium in hydrothermal silver transport. <i>Geochemistry International</i> , 2009, 47, 628-633.	0.7	5
27	Zr/Hf ratio in supercritical chloride fluids: Experimental study of zirconium and hafnium complexation at 450°C and 0.6–1 kbar. <i>Petrology</i> , 2015, 23, 93-101.	0.9	5
28	Composition and structure of Pt chloride complexes in hydrothermal solutions, according to X-ray absorption spectroscopy. <i>Russian Journal of Physical Chemistry A</i> , 2017, 91, 543-548.	0.6	5
29	Hydrolysis and Complex Formation of Zr and Hf in Aqueous Solutions of HClO <sub>4</sub> , HCl, and NaOH in Equilibrium with Baddeleyite (Zr and Hf)O <sub>2</sub> (cr) at 250°C. <i>Russian Journal of Physical Chemistry A</i> , 2018, 92, 2159-2164.	0.6	4
30	The solubility of cooperite PtS(cr) at 25 – 450°C, P <sub>sat</sub> – 1000 bar and hydrosulfide complexing of platinum in hydrothermal fluids. <i>Chemical Geology</i> , 2021, 559, 119968.	3.3	4
31	X-ray absorption spectroscopy study of the chemistry of “invisible” Au in arsenian pyrites. <i>E3S Web of Conferences</i> , 2019, 98, 05007.	0.5	1
32	Probing the Local Atomic Structure of In and Cu in Sphalerite by XAS Spectroscopy Enhanced by Reverse Monte Carlo Algorithm. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 841.	2.0	1