

Nikolay N Akinfiev

List of Publications by Year in descending order

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40
papers

1,756
citations

394421

19
h-index

315739

38
g-index

40
all docs

40
docs citations

40
times ranked

1584
citing authors

#	ARTICLE	IF	CITATIONS
1	Solubility of CO ₂ in water from 1.5 to 100 °C and from 0.1 to 100 MPa: evaluation of literature data and thermodynamic modelling. <i>Fluid Phase Equilibria</i> , 2003, 208, 265-290.	2.5	435
2	Experimental study of dissociation of HCl from 350 to 500 °C and from 500 to 2500 bars: Thermodynamic properties of HCl(aq). <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 4267-4280.	3.9	162
3	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
4	Thermodynamic description of aqueous nonelectrolytes at infinite dilution over a wide range of state parameters. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 613-629.	3.9	119
5	Thermodynamic properties of the Sb(III) hydroxide complex Sb(OH) ₃ (aq) at hydrothermal conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 1821-1836.	3.9	108
6	A simple predictive model of quartz solubility in water-salt-CO ₂ systems at temperatures up to 1000 °C and pressures up to 1000 MPa. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1597-1608.	3.9	86
7	Thermodynamic model of aqueous CO ₂ -H ₂ O-NaCl solutions from 22 to 100 °C and from 0.1 to 100 MPa. <i>Fluid Phase Equilibria</i> , 2010, 295, 104-124.	2.5	79
8	The role of carbon dioxide in the transport and fractionation of metals by geological fluids. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 197, 433-466.	3.9	77
9	Thermodynamic description of aqueous species in the system Cu-Ag-Au-S-O-H at temperatures of 0-600 °C and pressures of 1-3000 bar. <i>Geochemistry International</i> , 2010, 48, 714-720.	0.7	60
10	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
11	CuCl Electrolysis for Hydrogen Production in the Cu-Cl Thermochemical Cycle. <i>Journal of the Electrochemical Society</i> , 2011, 158, B266.	2.9	51
12	Thermodynamic description of equilibria in mixed fluids (H ₂ O-non-polar gas) over a wide range of temperature (25-700 °C) and pressure (1-5000 bars). <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 2025-2041.	3.9	37
13	Gold mineralisation and orogenic metamorphism in the Lena province of Siberia as assessed from Chertovo Koryto and Sukhoi Log deposits. <i>Geoscience Frontiers</i> , 2016, 7, 453-481.	8.4	34
14	Thermodynamics and Efficiency of a CuCl(aq)/HCl(aq) Electrolyzer. <i>Electrochimica Acta</i> , 2014, 143, 70-82.	5.2	33
15	Niobium and tantalum in hydrothermal fluids: Thermodynamic description of hydroxide and hydroxofluoride complexes. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 280, 102-115.	3.9	28
16	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
17	Zn in hydrothermal systems: Thermodynamic description of hydroxide, chloride, and hydrosulfide complexes. <i>Geochemistry International</i> , 2014, 52, 197-214.	0.7	23
18	Thermodynamic Properties of NaCl Solutions at Subzero Temperatures. <i>Journal of Solution Chemistry</i> , 2001, 30, 1065-1080.	1.2	21

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19	Composition, formation conditions, and genesis of the Talatui gold deposit, the Eastern Transbaikalian Region, Russia. <i>Geology of Ore Deposits</i> , 2007, 49, 31-68.	0.7	19
20	Effect of selenium on silver transport and precipitation by hydrothermal solutions: Thermodynamic description of the Ag-Se-S-Cl-O-H system. <i>Geology of Ore Deposits</i> , 2006, 48, 402-413.	0.7	17
21	Application of the Akinfiyev's Diamond equation of state to neutral hydroxides of metalloids (B(OH) ₃) at steam conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 126, 338-351.	0.784314	17
22	Experimental investigation of the stability of a chloroborate complex and thermodynamic description of aqueous species in the B-Na-Cl-O-H system up to 350°C. <i>Geochemistry International</i> , 2006, 44, 867-878.	0.7	15
23	Steam solubilities of solid MoO ₃ , ZnO and Cu ₂ O, calculated on a basis of a thermodynamic model. <i>Fluid Phase Equilibria</i> , 2013, 338, 232-244.	2.5	12
24	The Behavior of H ₂ in Aqueous Fluids under High Temperature and Pressure. <i>Elements</i> , 2020, 16, 33-38.	0.5	12
25	An equation of state for predicting the thermodynamic properties and vapour-liquid partitioning of aqueous Ge(OH) ₄ in a wide range of water densities. <i>Fluid Phase Equilibria</i> , 2015, 392, 74-83.	2.5	11
26	Solubility of chlorargyrite (AgCl(cr.l.)) in water: New experimental data and a predictive model valid for a wide range of temperatures (273-873 K) and water densities (0.01-1 g·cm ⁻³). <i>Geochimica Et Cosmochimica Acta</i> , 2016, 178, 178-194.	3.9	11
27	CuCl-HCl Electrolyzer for Hydrogen Production via Cu-Cl Thermochemical Cycle. <i>ECS Transactions</i> , 2009, 19, 21-32.	0.5	10
28	Thermodynamic description of H ₂ S-H ₂ O-NaCl solutions at temperatures to 573 K and pressures to 40 MPa. <i>Chemical Geology</i> , 2016, 424, 1-11.	3.3	10
29	Quartz solubility in sodium carbonate solutions at high pressure and temperature. <i>Chemical Geology</i> , 2020, 550, 119699.	3.3	10
30	A three-parameter EoS to describe aqueous non-electrolytes at infinite dilution over a wide range of state parameters, with preliminary application to 1:1 electrolytes. <i>Fluid Phase Equilibria</i> , 2004, 222-223, 31-37.	2.5	9
31	Niobium in hydrothermal systems related to alkali granites: Thermodynamic description of hydroxo and hydroxofluoride complexes. <i>Geology of Ore Deposits</i> , 2017, 59, 305-314.	0.7	9
32	Pressure-dependent stability of cadmium chloride complexes: Potentiometric measurements at 1-1000 bar and 25°C. <i>Geology of Ore Deposits</i> , 2010, 52, 167-178.	0.7	6
33	Gas mixing with aqueous solution in the ore-forming hydrothermal process: an example of gold. <i>Geochemistry International</i> , 2016, 54, 403-414.	0.7	4
34	Physicochemical Modeling of Ore Formation at the Gold and Volcanogenic Massive Sulfide Deposits of the Northern Urals. <i>Geochemistry International</i> , 2020, 58, 1437-1442.	0.7	3
35	Carbon dioxide utilization in aquifer: Method for mitigation greenhouse effect. <i>Energy Conversion and Management</i> , 1996, 37, 1143-1148.	9.2	2
36	Thermodynamic description of equilibria in mixed fluids (H ₂ O-nonpolar gas) in a wide range of temperatures (25-700°C) and pressures (1-5000 bar). <i>Geology of Ore Deposits</i> , 2006, 48, 23-42.	0.7	1

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37	Thermodynamic properties of o-phthalic acid and its products of dissociation at 0–200°C and 1–5000 bar. Russian Journal of Physical Chemistry A, 2013, 87, 1259-1265.	0.6	1
38	Thermodynamic description of alkali metal hydroxides over a wide range of temperatures, pressures and densities of aqueous fluids. E3S Web of Conferences, 2019, 98, 05001.	0.5	1
39	Research activities of the “environmental geochemistry”-European associated laboratory. Russian Journal of General Chemistry, 2008, 78, 1047-1059.	0.8	0
40	Germanium and Gallium Concentrations in Natural Melts and Fluids: Evidence from Fluid Inclusions. Geochemistry International, 2021, 59, 243-263.	0.7	0