JoÃ«l Brugger

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7904090/publications.pdf

Version: 2024-02-01

202 papers	8,137 citations	36303 51 h-index	64796 79 g-index
212 all docs	212 docs citations	212 times ranked	5702 citing authors

#	Article	IF	Citations
1	Bi/Te control on gold mineralizing processes in the North China Craton: Insights from the Wulong gold deposit. Mineralium Deposita, 2023, 58, 263-286.	4.1	6
2	A new mode of mineral replacement reactions involving the synergy between fluid-induced solid-state diffusion and dissolution-reprecipitation: A case study of the replacement of bornite by copper sulfides. Geochimica Et Cosmochimica Acta, 2022, 330, 165-190.	3.9	18
3	Goldilocks effect of fluorine and chlorine in albitisation. Chemical Geology, 2022, 591, 120728.	3.3	2
4	Tellurium biogeochemical transformation and cycling in a metalliferous semi-arid environment. Geochimica Et Cosmochimica Acta, 2022, 321, 265-292.	3.9	6
5	An experimental and thermodynamic study of sphalerite solubility in chloride-bearing fluids at 300â€“450ÂÂ°C, 500Âbar: implications for zinc transport in seafloor hydrothermal systems. Geochimica Et Cosmochimica Acta, 2022, 330, 131-147.	3.9	7
6	Carbonate complexation enhances hydrothermal transport of rare earth elements in alkaline fluids. Nature Communications, 2022, 13, 1456.	12.8	35
7	Speciation and thermodynamic properties of La(III)-Cl complexes in hydrothermal fluids: A combined molecular dynamics and in situ X-ray absorption spectroscopy study. Geochimica Et Cosmochimica Acta, 2022, 330, 27-46.	3.9	5
8	Yttrium speciation in sulfate-rich hydrothermal ore-forming fluids. Geochimica Et Cosmochimica Acta, 2022, 325, 278-295.	3.9	4
9	Energy-saving glasses based on sodium tungsten bronze-like (Na5W14O44) functional units: Facile synthesis, NIR-shielding performance, and formation mechanism. Ceramics International, 2022, 48, 21141-21150.	4.8	4
10	Transport and migration of plutonium in different soil types and rainfall regimes. Journal of Environmental Radioactivity, 2022, 248, 106883.	1.7	1
11	Natural nanoparticles of the critical element tellurium. Journal of Hazardous Materials Letters, 2022, 3, 100053.	3.6	2
12	Synchronous solid-state diffusion, dissolution-reprecipitation, and recrystallization leading to isotopic resetting: insights from chalcopyrite replacement by copper sulfides. Geochimica Et Cosmochimica Acta, 2022, 331, 48-68.	3.9	8
13	Insights into salty metamorphic fluid evolution from scapolite in the Trans-North China Orogen: Implication for ore genesis. Geochimica Et Cosmochimica Acta, 2021, 293, 256-276.	3.9	12
14	The dynamic uptake of lead and its radionuclides by natural and synthetic aluminium-phosphate-sulfates. Minerals Engineering, 2021, 160, 106659.	4.3	8
15	Formation of Mg-carbonates and Mg-hydroxides via calcite replacement controlled by fluid pressure. Contributions To Mineralogy and Petrology, 2021, 176, 1.	3.1	8
16	Understanding the mobility and retention of uranium and its daughter products. Journal of Hazardous Materials, 2021, 410, 124553.	12.4	9
17	FRANK REITH (11 June 1972â€“14 October 2019) The man with the gold bug. Mineralogical Magazine, 2021, 85, 3-11.	1.4	0
18	An in situ, micro-scale investigation of inorganically and organically driven rare-earth remobilisation during weathering. Mineralogical Magazine, 2021, 85, 105-116.	1.4	5

#	Article	IF	Citations
19	Oxidative Dissolution of Sulfide Minerals in Single and Mixed Sulfide Systems under Simulated Acid and Metalliferous Drainage Conditions. Environmental Science & Technology, 2021, 55, 2369-2380.	10.0	10
20	Gold particles from Kamchatka: A brief look at gold biogeochemical cycling in a distinct environment. Mineralogical Magazine, 2021, 85, 68-75.	1.4	1
21	Lead (Pb) sorption and co-precipitation on natural sulfide, sulfate and oxide minerals under environmental conditions. Minerals Engineering, 2021, 163, 106801.	4.3	13
22	Trace element catalyses mineral replacement reactions and facilitates ore formation. Nature Communications, 2021, 12, 1388.	12.8	19
23	The nature of Pu-bearing particles from the Maralinga nuclear testing site, Australia. Scientific Reports, 2021, 11, 10698.	3.3	15
24	Selective radionuclide co-sorption onto natural minerals in environmental and anthropogenic conditions. Journal of Hazardous Materials, 2021, 409, 124989.	12.4	10
25	Localised solution environments drive radionuclide fractionation in uraninite. Journal of Hazardous Materials, 2021, 412, 125192.	12.4	4
26	Kinetically driven successive sodic and potassic alteration of feldspar. Nature Communications, 2021, 12, 4435.	12.8	6
27	Uranium carbonate complexes demonstrate drastic decrease in stability at elevated temperatures. Communications Chemistry, 2021, 4, .	4.5	9
28	Rapid Marcasite to Pyrite Transformation in Acidic Low-Temperature Hydrothermal Fluids and Saturation Index Control on FeS₂ Precipitation Dynamics and Phase Selection. ACS Earth and Space Chemistry, 2021, 5, 2453-2465.	2.7	6
29	Nutrient Supply to Planetary Biospheres From Anoxic Weathering of Mafic Oceanic Crust. Geophysical Research Letters, 2021, 48, e2021GL094442.	4.0	16
30	Anatomy of a complex mineral replacement reaction: Role of aqueous redox, mineral nucleation, and ion transport properties revealed by an in-situ study of the replacement of chalcopyrite by copper sulfides. Chemical Geology, 2021, 581, 120390.	3.3	10
31	Gold solubility in alkaline and ammonia-rich hydrothermal fluids: Insights from ab initio molecular dynamics simulations. Geochimica Et Cosmochimica Acta, 2020, 291, 62-78.	3.9	17
32	Revisiting hydrocarbon phase mobilization of Au in the Auâ€“Hg McLaughlin Mine, Geysers/Clear Lake area, California. Ore Geology Reviews, 2020, 117, 103218.	2.7	12
33	Coupling between mineral replacement reactions and co-precipitation of trace elements: An example from the giant Olympic Dam deposit. Ore Geology Reviews, 2020, 117, 103267.	2.7	11
34	Forming sulfate- and REE-rich fluids in the presence of quartz. Geology, 2020, 48, 145-148.	4.4	34
35	The role of sulfur in molybdenum transport in hydrothermal fluids: Insight from in situ synchrotron XAS experiments and molecular dynamics simulations. Geochimica Et Cosmochimica Acta, 2020, 290, 162-179.	3.9	12
36	Selective removal of radioactive 210Pb(II) and nonradioactive Pb(II) isotopes from Cu(II)-rich acidic chloride solution by a new polyamine anion exchanger. Separation and Purification Technology, 2020, 251, 117359.	7.9	5

#	Article	IF	Citations
37	Spectroscopic, Raman, EMPA, Micro-XRF and Micro-XANES Analyses of Sulphur Concentration and Oxidation State of Natural Apatite Crystals. Crystals, 2020, 10, 1032.	2.2	13
38	Large S isotope and trace element fractionations in pyrite of uranium roll front systems result from internally-driven biogeochemical cycle. Geochimica Et Cosmochimica Acta, 2020, 282, 113-132.	3.9	39
39	Selective impurity removal and Cu upgrading of copper flotation concentrate by a spontaneously oxidative H2SO4 leaching process. Hydrometallurgy, 2020, 195, 105411.	4.3	12
40	Love is in the Earth: A review of tellurium (bio)geochemistry in surface environments. Earth-Science Reviews, 2020, 204, 103150.	9.1	53
41	The mechanism and kinetics of the transformation from marcasite to pyrite: in situ and ex situ experiments and geological implications. Contributions To Mineralogy and Petrology, 2020, 175, 1.	3.1	13
42	Yttrium complexation and hydration in chloride-rich hydrothermal fluids: A combined ab initio molecular dynamics and in situ X-ray absorption spectroscopy study. Geochimica Et Cosmochimica Acta, 2020, 281, 168-189.	3.9	18
43	HighPGibbs, a Practical Tool for Fluidâ€Rock Thermodynamic Simulation in Deep Earth and its Application on Calculating Nitrogen Speciation in Subduction Zone Fluids. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC008973.	2.5	4
44	Early Fimiston and late Oroya Auâ€“Te ore, Paringa South mine, Golden Mile, Kalgoorlie: 4. Mineralogical and thermodynamic constraints on gold deposition by magmatic fluids at 420â€“300ÂÂ°C and 300ÂMPa. Mineralium Deposita, 2020, 55, 767-796.	4.1	12
45	Metal resistant bacteria on gold particles: Implications of how anthropogenic contaminants could affect natural gold biogeochemical cycling. Science of the Total Environment, 2020, 727, 138698.	8.0	9
46	Mechanism and kinetics of hydrothermal replacement of magnetite by hematite. Geoscience Frontiers, 2019, 10, 29-41.	8.4	51
47	Nickel exchange between aqueous Ni(II) and deep-sea ferromanganese nodules and crusts. Chemical Geology, 2019, 528, 119276.	3.3	7
48	Unravelling the formation histories of placer gold and platinum-group mineral particles from Corrego Bom Successo, Brazil: A window into noble metal cycling. Gondwana Research, 2019, 76, 246-259.	6.0	10
49	The aqueous chemistry of polonium (Po) in environmental and anthropogenic processes. Journal of Hazardous Materials, 2019, 380, 120725.	12.4	37
50	Uranyl speciation in sulfate-bearing hydrothermal solutions up to 250â€Â°C. Geochimica Et Cosmochimica Acta, 2019, 267, 75-91.	3.9	18
51	Oxidation state and coordination environment of Pb in U-bearing minerals. Geochimica Et Cosmochimica Acta, 2019, 265, 109-131.	3.9	21
52	Colloidal gold in sulphur and citrate-bearing hydrothermal fluids: An experimental study. Ore Geology Reviews, 2019, 114, 103142.	2.7	22
53	Crude oils as ore fluids: An experimental in-situ XAS study of gold partitioning between brine and organic fluid from 25 to 250â€Â°C. Geochimica Et Cosmochimica Acta, 2019, 244, 352-365.	3.9	23
54	Zinc transport in hydrothermal fluids: On the roles of pressure and sulfur vs. chlorine complexing. American Mineralogist, 2019, 104, 158-161.	1.9	13

#	Article	IF	Citations
55	Coupled reactive flow and dissolution with changing reactive surface and porosity. Chemical Engineering Science, 2019, 206, 289-304.	3.8	11
56	Characterisation of a rare earth element- and zirconium-bearing ion-adsorption clay deposit in Madagascar. Chemical Geology, 2019, 522, 93-107.	3.3	46
57	Arsenic evolution as a tool for understanding formation of pyritic gold ores. Geology, 2019, 47, 335-338.	4.4	83
58	REE-, Sr-, Ca-aluminum-phosphate-sulfate minerals of the alunite supergroup and their role as hosts for radionuclides. American Mineralogist, 2019, 104, 1806-1819.	1.9	16
59	The role of fluorine in hydrothermal mobilization and transportation of Fe, U and REE and the formation of IOCG deposits. Chemical Geology, 2019, 504, 158-176.	3.3	46
60	Effect of physical and biogeochemical factors on placer gold transformation in mountainous landscapes of Switzerland. Gondwana Research, 2019, 66, 77-92.	6.0	18
61	Crystal chemistry of zemannite-type structures: I. A re-examination of zemannite from Moctezuma, Mexico. European Journal of Mineralogy, 2019, 31, 519-527.	1.3	10
62	The crystal structure of cesbronite, Cu₃TeO₄(OH)₄: a novel sheet tellurate topology. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2018, 74, 24-31.	1.1	2
63	The dissociation mechanism and thermodynamic properties of HCl(aq) in hydrothermal fluids (to) Tj ETQq1 1 0.784314 rgBT /Overloc 226, 84-106.	3.9	29
64	Recrystallization of Manganite (Î³-MnOOH) and Implications for Trace Element Cycling. Environmental Science & Technology, 2018, 52, 1311-1319.	10.0	19
65	Characterization of uranium redox state in organic-rich Eocene sediments. Chemosphere, 2018, 194, 602-613.	8.2	40
66	Garnet peridotites reveal spatial and temporal changes in the oxidation potential of subduction. Scientific Reports, 2018, 8, 16411.	3.3	14
67	Synchrotron Diffraction Study of the Crystal Structure of Ca(UO2)6(SO4)2O2(OH)6Â·12H2O, a Natural Phase Related to Uranopilite. Minerals (Basel, Switzerland), 2018, 8, 569.	2.0	0
68	Terraced Iron Formations: Biogeochemical Processes Contributing to Microbial Biomineralization and Microfossil Preservation. Geosciences (Switzerland), 2018, 8, 480.	2.2	5
69	The role of Pb(II) complexes in hydrothermal mass transfer: An X-ray absorption spectroscopic study. Chemical Geology, 2018, 502, 88-106.	3.3	27
70	Uranium Transport in F-Cl-Bearing Fluids and Hydrothermal Upgrading of U-Cu Ores in IOCG Deposits. Geofluids, 2018, 2018, 1-22.	0.7	33
71	Exsolution of chalcopyrite from bornite-digenite solid solution: an example of a fluid-driven back-replacement reaction. Mineralium Deposita, 2018, 53, 903-908.	4.1	26
72	Exact Solution for Coupled Reactive Flow and Dissolution with Porosity Changes. Transport in Porous Media, 2018, 124, 655-679.	2.6	9

#	Article	IF	Citations
73	Rapid immobilisation of U(VI) by Eucalyptus bark: Adsorption without reduction. Applied Geochemistry, 2018, 96, 1-10.	3.0	13
74	CuCl Complexation in the Vapor Phase: Insights from Ab Initio Molecular Dynamics Simulations. Geofluids, 2018, 2018, 1-12.	0.7	9
75	Species fine structure of transition metal Cu(II) in aqueous chloride-bearing solutions: Insights from X-ray absorption spectroscopy and ab initio XANES calculations. Journal of Molecular Liquids, 2017, 230, 200-208.	4.9	10
76	Enrichment of germanium and associated arsenic and tungsten in coal and roll-front uranium deposits. Chemical Geology, 2017, 463, 29-49.	3.3	70
77	NANO- TO MICRON-SCALE PARTICULATE GOLD HOSTED BY MAGNETITE: A PRODUCT OF GOLD SCAVENGING BY BISMUTH MELTS. Economic Geology, 2017, 112, 993-1010.	3.8	50
78	Revisiting the hydrothermal geochemistry of europium(II/III) in light of new in-situ XAS spectroscopy results. Chemical Geology, 2017, 459, 61-74.	3.3	43
79	The Carbonatation of Anhydrite: Kinetics and Reaction Pathways. ACS Earth and Space Chemistry, 2017, 1, 89-100.	2.7	15
80	Synergistic Toxicity of Copper and Gold Compounds in Cupriavidus metallidurans. Applied and Environmental Microbiology, 2017, 83, .	3.1	33
81	Fluid-Enhanced Coarsening of Mineral Microstructures in Hydrothermally Synthesized Borniteâ€“Digenite Solid Solution. ACS Earth and Space Chemistry, 2017, 1, 465-474.	2.7	23
82	Hydration Is the Key for Gold Transport in CO2â€“HClâ€“H2O Vapor. ACS Earth and Space Chemistry, 2017, 1, 368-375.	2.7	12
83	Smoking gun for thallium geochemistry in volcanic arcs: Nataliyamalikite, TlI, a new thallium mineral from an active fumarole at Avacha Volcano, Kamchatka Peninsula, Russia. American Mineralogist, 2017, 102, 1736-1746.	1.9	13
84	Hydrothermal evolution and ore genesis of the Beiya giant Au polymetallic deposit, western Yunnan, China: Evidence from fluid inclusions and Hâ€“Oâ€“Sâ€“Pb isotopes. Ore Geology Reviews, 2017, 90, 847-862.	2.7	34
85	Arsenic in hydrothermal apatite: Oxidation state, mechanism of uptake, and comparison between experiments and nature. Geochimica Et Cosmochimica Acta, 2017, 196, 144-159.	3.9	38
86	Evidence of sub-arc mantle oxidation by sulphur and carbon. Geochemical Perspectives Letters, 2017, , 124-132.	5.0	44
87	Introducing BASE: the Biomes of Australian Soil Environments soil microbial diversity database. GigaScience, 2016, 5, 21.	6.4	204
88	Applying the Midas touch: Differing toxicity of mobile gold and platinum complexes drives biomineralization in the bacterium Cupriavidus metallidurans. Chemical Geology, 2016, 438, 103-111.	3.3	23
89	Proteomic responses to gold(<scp>iii</scp>)-toxicity in the bacterium Cupriavidus metallidurans CH34. Metallomics, 2016, 8, 1204-1216.	2.4	42
90	A review of the coordination chemistry of hydrothermal systems, or do coordination changes make ore deposits?. Chemical Geology, 2016, 447, 219-253.	3.3	177

#	Article	IF	Citations
91	Hydrothermal transport, deposition, and fractionation of the REE: Experimental data and thermodynamic calculations. Chemical Geology, 2016, 439, 13-42.	3.3	306
92	The role of Te(IV) and Bi(III) chloride complexes in hydrothermal mass transfer: An X-ray absorption spectroscopic study. Chemical Geology, 2016, 425, 37-51.	3.3	35
93	Biological role in the transformation of platinum-group mineralÂgrains. Nature Geoscience, 2016, 9, 294-298.	12.9	46
94	Speciation and thermodynamic properties of zinc in sulfur-rich hydrothermal fluids: Insights from ab initio molecular dynamics simulations and X-ray absorption spectroscopy. Geochimica Et Cosmochimica Acta, 2016, 179, 32-52.	3.9	27
95	Ore Petrography Using Megapixel X-Ray Imaging: Rapid Insights into Element Distribution and Mobilization in Complex Pt and U-Ge-Cu Ores. Economic Geology, 2016, 111, 487-501.	3.8	32
96	Distribution and Substitution Mechanism of Ge in a Ge-(Fe)-Bearing Sphalerite. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	2.0	90
97	Effect of manganese oxide minerals and complexes on gold mobilization and speciation. Chemical Geology, 2015, 407-408, 10-20.	3.3	18
98	Fate of gold and base metals during metamorphic devolatilization of a pelite. Geochimica Et Cosmochimica Acta, 2015, 171, 338-352.	3.9	97
99	Contrasting regimes of Cu, Zn and Pb transport in ore-forming hydrothermal fluids. Chemical Geology, 2015, 395, 154-164.	3.3	121
100	Zinc complexation in chloride-rich hydrothermal fluids (25â€“600 Â°C): A thermodynamic model derived from ab initio molecular dynamics. Geochimica Et Cosmochimica Acta, 2015, 150, 265-284.	3.9	85
101	Surface transformations of platinum grains from Fifield, New South Wales, Australia. American Mineralogist, 2015, 100, 1236-1243.	1.9	14
102	Effect of Solvent Activity on Solute Association: The Formation of Aqueous Nickel(II) Chloride Complexes Studied by UVâ€“Vis and EXAFS Spectroscopy. Journal of Solution Chemistry, 2015, 44, 1320-1338.	1.2	9
103	Palladium complexation in chloride- and bisulfide-rich fluids: Insights from ab initio molecular dynamics simulations and X-ray absorption spectroscopy. Geochimica Et Cosmochimica Acta, 2015, 161, 128-145.	3.9	55
104	Textural and compositional complexities resulting from coupled dissolutionâ€“reprecipitation reactions in geomaterials. Earth-Science Reviews, 2015, 150, 628-651.	9.1	115
105	Uranium scavenging during mineral replacement reactions. American Mineralogist, 2015, 100, 1728-1735.	1.9	22
106	Thermodynamic Modeling of Poorly Complexing Metals in Concentrated Electrolyte Solutions: An X-Ray Absorption and UV-Vis Spectroscopic Study of Ni(II) in the NiCl2-MgCl2-H2O System. PLoS ONE, 2015, 10, e0119805.	2.5	13
107	Speciation mapping of environmental samples using XANES imaging. Environmental Chemistry, 2014, 11, 341.	1.5	55
108	Characterization of porosity in sulfide ore minerals: A USANS/SANS study. American Mineralogist, 2014, 99, 2398-2404.	1.9	18

#	Article	IF	Citations
109	The replacement of chalcopyrite by bornite under hydrothermal conditions. American Mineralogist, 2014, 99, 2389-2397.	1.9	44
110	Experimental study of the formation of chalcopyrite and bornite via the sulfidation of hematite: Mineral replacements with a large volume increase. American Mineralogist, 2014, 99, 343-354.	1.9	39
111	Structure and Thermal Stability of Bi(III) Oxy-Clusters in Aqueous Solutions. Journal of Solution Chemistry, 2014, 43, 314-325.	1.2	25
112	Metal complexation and ion hydration in low density hydrothermal fluids: Ab initio molecular dynamics simulation of Cu(I) and Au(I) in chloride solutions (25â€“1000Â°C, 1â€“5000bar). Geochimica Et Cosmochimica Acta, 2014, 131, 196-212.	3.9	69
113	Gold transport in hydrothermal fluids: Competition among the Clâ», Brâ», HSâ» and NH3(aq) ligands. Chemical Geology, 2014, 376, 11-19.	3.3	65
114	GraÂianite, MnBi2S4, a new mineral from the Baia Bihor skarn, Romania. American Mineralogist, 2014, 99, 1163-1170.	1.9	12
115	In situ recovery of uranium â€” the microbial influence. Hydrometallurgy, 2014, 150, 236-244.	4.3	39
116	Microporous gold: Comparison of textures from Nature and experiments. American Mineralogist, 2014, 99, 1171-1174.	1.9	20
117	Analysis of Gold(I/III)-Complexes by HPLC-ICP-MS Demonstrates Gold(III) Stability in Surface Waters. Environmental Science & Technology, 2014, 48, 5737-5744.	10.0	53
118	Speciation and thermodynamic properties of manganese(II) chloride complexes in hydrothermal fluids: In situ XAS study. Geochimica Et Cosmochimica Acta, 2014, 129, 77-95.	3.9	33
119	Can biological toxicity drive the contrasting behavior of platinum and gold in surface environments?. Chemical Geology, 2013, 343, 99-110.	3.3	40
120	Speciation of aqueous tellurium(IV) in hydrothermal solutions and vapors, and the role of oxidized tellurium species in Te transport and gold deposition. Geochimica Et Cosmochimica Acta, 2013, 120, 298-325.	3.9	117
121	Geobiological Cycling of Gold: From Fundamental Process Understanding to Exploration Solutions. Minerals (Basel, Switzerland), 2013, 3, 367-394.	2.0	54
122	Complexation of gold in S3â»-rich hydrothermal fluids: Evidence from ab-initio molecular dynamics simulations. Chemical Geology, 2013, 347, 34-42.	3.3	40
123	Ab initio molecular dynamics simulation and free energy exploration of copper(I) complexation by chloride and bisulfide in hydrothermal fluids. Geochimica Et Cosmochimica Acta, 2013, 102, 45-64.	3.9	79
124	Dissolution-reprecipitation vs. solid-state diffusion: Mechanism of mineral transformations in sylvanite, (AuAg)2Te4, under hydrothermal conditions. American Mineralogist, 2013, 98, 19-32.	1.9	49
125	Formation of As(II)-pyrite during experimental replacement of magnetite under hydrothermal conditions. Geochimica Et Cosmochimica Acta, 2013, 100, 1-10.	3.9	60
126	Bismuth speciation in hydrothermal fluids: An X-ray absorption spectroscopy and solubility study. Geochimica Et Cosmochimica Acta, 2013, 101, 156-172.	3.9	70

#	Article	IF	Citations
127	Mechanism of mineral transformations in krennerite, Au3AgTe8, under hydrothermal conditions. American Mineralogist, 2013, 98, 2086-2095.	1.9	14
128	A Whole-Cell Biosensor for the Detection of Gold. PLoS ONE, 2013, 8, e69292.	2.5	14
129	XAS evidence for the stability of polytellurides in hydrothermal fluids up to 599 ÂC, 800 bar. American Mineralogist, 2012, 97, 1519-1522.	1.9	24
130	Influence of geogenic factors on microbial communities in metallogenic Australian soils. ISME Journal, 2012, 6, 2107-2118.	9.8	79
131	Speciation of nickel (II) chloride complexes in hydrothermal fluids: In situ XAS study. Chemical Geology, 2012, 334, 345-363.	3.3	69
132	Anatase nanoparticles on supergene platinumâ€“palladium aggregates from Brazil: Titanium mobility in natural waters. Chemical Geology, 2012, 334, 182-188.	3.3	12
133	Phosphodiester Cleavage Properties of Copper(II) Complexes of 1,4,7-Triazacyclononane Ligands Bearing Single Alkyl Guanidine Pendants. Inorganic Chemistry, 2012, 51, 939-953.	4.0	54
134	An XAS study of speciation and thermodynamic properties of aqueous zinc bromide complexes at 25â€“150Â°C. Chemical Geology, 2012, 298-299, 57-69.	3.3	24
135	An XAS study of molybdenum speciation in hydrothermal chloride solutions from 25â€“385Â°C and 600bar. Geochimica Et Cosmochimica Acta, 2012, 92, 292-307.	3.9	53
136	Crystal structure of pseudojohannite, with a revised formula, Cu3(OH)2[(UO2)4O4(SO4)2](H2O)12. American Mineralogist, 2012, 97, 1796-1803.	1.9	17
137	Determination of the oxidation state of Cu in substituted Cu-In-Fe-bearing sphalerite via Â-XANES spectroscopy. American Mineralogist, 2012, 97, 476-479.	1.9	114
138	Description and crystal structure of maghrebite, MgAl2(AsO4)2(OH)28H2O, from Aghbar, Anti-Atlas, Morocco: first arsenate in the laueite mineral group. European Journal of Mineralogy, 2012, 24, 717-726.	1.3	9
139	Leucostaurite, Pb2[B5O9]Cl{middle dot}0.5H2O, from the Atacama Desert: The first Pb-dominant member of the hilgardite group, and micro-determination of boron in minerals by PIGE. American Mineralogist, 2012, 97, 1206-1212.	1.9	7
140	Understanding the mechanism and kinetics of pentlandite oxidation in extractive pyrometallurgy of nickel. Minerals Engineering, 2012, 27-28, 11-19.	4.3	22
141	The future of biotechnology for gold exploration and processing. Minerals Engineering, 2012, 32, 45-53.	4.3	30
142	Single-pass flow-through reaction cell for high-temperature and high-pressurein situneutron diffraction studies of hydrothermal crystallization processes. Journal of Applied Crystallography, 2012, 45, 166-173.	4.5	6
143	A LA-ICP-MS sulphide calibration standard based on a chalcogenide glass. Mineralogical Magazine, 2011, 75, 279-287.	1.4	17
144	Replacement of pyrrhotite by pyrite and marcasite under hydrothermal conditions up to 220 ÂC: An experimental study of reaction textures and mechanisms. American Mineralogist, 2011, 96, 1878-1893.	1.9	71

#	Article	IF	Citations
145	Synthesis, Structure, and DNA Cleavage Properties of Copper(II) Complexes of 1,4,7-Triazacyclononane Ligands Featuring Pairs of Guanidine Pendants. Inorganic Chemistry, 2011, 50, 621-635.	4.0	65
146	Paulscherrerite from the Number 2 Workings, Mount Painter Inlier, Northern Flinders Ranges, South Australia: "Dehydrated schoepite" is a mineral after all. American Mineralogist, 2011, 96, 229-240.	1.9	30
147	Speciation and thermodynamic properties for cobalt chloride complexes in hydrothermal fluids at 35â€“440Â°C and 600bar: An in-situ XAS study. Geochimica Et Cosmochimica Acta, 2011, 75, 1227-1248.	3.9	119
148	Distribution and speciation of gold in biogenic and abiogenic calcium carbonates â€“ Implications for the formation of gold anomalous calcrete. Geochimica Et Cosmochimica Acta, 2011, 75, 1942-1956.	3.9	28
149	Bi-melt formation and gold scavenging from hydrothermal fluids: An experimental study. Geochimica Et Cosmochimica Acta, 2011, 75, 5423-5443.	3.9	137
150	Copper(i) speciation in mixed thiosulfate-chloride and ammonia-chloride solutions: XAS and UV-Visible spectroscopic studies. RSC Advances, 2011, 1, 1554.	3.6	33
151	Genesis and Preservation of a Uranium-Rich Paleozoic Epithermal System with a Surface Expression (Northern Flinders Ranges, South Australia): Radiogenic Heat Driving Regional Hydrothermal Circulation over Geological Timescales. Astrobiology, 2011, 11, 499-508.	3.0	24
152	Argandite, Mn7(VO4)2(OH)8, the V analogue of allactite from the metamorphosed Mn ores at Pipji, Turtmann Valley, Switzerland. American Mineralogist, 2011, 96, 1894-1900.	1.9	3
153	A Novel Route for the Synthesis of Mesoporous and Low-Thermal Stability Materials by Coupled Dissolution-Reprecipitation Reactions: Mimicking Hydrothermal Mineral Formation. Chimia, 2010, 64, 693.	0.6	26
154	A novel pre-treatment of calaverite by hydrothermal mineral replacement reactions. Minerals Engineering, 2010, 23, 451-453.	4.3	21
155	Probing ore deposits formation: New insights and challenges from synchrotron and neutron studies. Radiation Physics and Chemistry, 2010, 79, 151-161.	2.8	58
156	A thermosyphon-driven hydrothermal flow-through cell forin situand time-resolved neutron diffraction studies. Journal of Applied Crystallography, 2010, 43, 511-519.	4.5	12
157	Syntheses and Crystallization of Mineralogically Relevant Chalcogenide Glasses. Journal of the American Ceramic Society, 2010, 93, 2434-2437.	3.8	2
158	Nanoparticle factories: Biofilms hold the key to gold dispersion and nugget formation. Geology, 2010, 38, 843-846.	4.4	137
159	An experimental study of the mechanism of the replacement of magnetite by pyrite up to 300Â°C. Geochimica Et Cosmochimica Acta, 2010, 74, 5610-5630.	3.9	69
160	Fluids in geological processes â€" The present state and future outlook. Journal of Geochemical Exploration, 2010, 106, 1-7.	3.2	40
161	Francoisite-(Ce), a new mineral species from La Creusaz uranium deposit (Valais, Switzerland) and from Radium Ridge (Flinders Ranges, South Australia): Description and genesis. American Mineralogist, 2010, 95, 1527-1532.	1.9	8
162	A large volume cell for in situ neutron diffraction studies of hydrothermal crystallizations. Review of Scientific Instruments, 2010, 81, 105107.	1.3	7

#	Article	IF	Citations
163	Arsenic speciation in fluid inclusions using micro-beam X-ray absorption spectroscopy. American Mineralogist, 2010, 95, 921-932.	1.9	41
164	Quantitative Cathodoluminescence Mapping with Application to a Kalgoorlie Scheelite. Microscopy and Microanalysis, 2009, 15, 222-230.	0.4	25
165	Mechanism and kinetics of a mineral transformation under hydrothermal conditions: Calaverite to metallic gold. American Mineralogist, 2009, 94, 1541-1555.	1.9	64
166	Mechanisms of gold biomineralization in the bacterium Cupriavidus metallidurans. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17757-17762.	7.1	283
167	In-situ X-ray absorption study of Iron(II) speciation in brines up to supercritical conditions. Chemical Geology, 2009, 264, 295-310.	3.3	107
168	Effect of the cyanide-producing bacterium Chromobacterium violaceum on ultraflat Au surfaces. Chemical Geology, 2009, 265, 313-320.	3.3	48
169	â€˜Invisible goldâ€™ in bismuth chalcogenides. Geochimica Et Cosmochimica Acta, 2009, 73, 1970-1999.	3.9	106
170	Mechanism and kinetics of pseudomorphic mineral replacement reactions: A case study of the replacement of pentlandite by violarite. Geochimica Et Cosmochimica Acta, 2009, 73, 1945-1969.	3.9	193
171	A spectrophotometric study of aqueous Au(III) halideâ€“hydroxide complexes at 25â€“80Â°C. Geochimica Et Cosmochimica Acta, 2009, 73, 3359-3380.	3.9	173
172	Three-Dimensional Ordered Arrays of Zeolite Nanocrystals with Uniform Size and Orientation by a Pseudomorphic Coupled Dissolutionâ^'Reprecipitation Replacement Route. Crystal Growth and Design, 2009, 9, 4902-4906.	3.0	64
173	Birchite, a new mineral from Broken Hill, New South Wales, Australia: Description and structure refinement. American Mineralogist, 2008, 93, 910-917.	1.9	7
174	Modeling of gold scavenging by bismuth melts coexisting with hydrothermal fluids. Geology, 2008, 36, 815.	4.4	139
175	Protracted fluidâ€“rock interaction in the Mesoarchaean and implication for gold mineralization: Example from the Warrawoona syncline (Pilbara, Western Australia). Earth and Planetary Science Letters, 2008, 272, 639-655.	4.4	16
176	The solubility of nantokite (CuCl(s)) and Cu speciation in low-density fluids near the critical isochore: An in-situ XAS study. Geochimica Et Cosmochimica Acta, 2008, 72, 4094-4106.	3.9	43
177	Oxidation state of europium in scheelite: Tracking fluidâ€“rock interaction in gold deposits. Chemical Geology, 2008, 257, 26-33.	3.3	133
178	Xocolatlite, Ca2Mn24+Te2O12{middle dot}H2O, a new tellurate related to kuranakhite: Description and measurement of Te oxidation state by XANES spectroscopy. American Mineralogist, 2008, 93, 1911-1920.	1.9	25
179	Novel Route To Synthesize Complex Metal Sulfides: Hydrothermal Coupled Dissolutionâ^'Reprecipitation Replacement Reactions. Chemistry of Materials, 2008, 20, 2809-2817.	6.7	63
180	Mineralogy and crystal structure of bouazzerite from Bou Azzer, Anti-Atlas, Morocco: Bi-As-Fe nanoclusters containing Fe3+ in trigonal prismatic coordination. American Mineralogist, 2007, 92, 1630-1639.	1.9	16

#	Article	IF	Citations
181	Deriving formation constants for aqueous metal complexes from XANES spectra: Zn2+ and Fe2+ chloride complexes in hypersaline solutions. American Mineralogist, 2007, 92, 761-770.	1.9	49
182	BeerOz, a set of Matlab routines for the quantitative interpretation of spectrophotometric measurements of metal speciation in solution. Computers and Geosciences, 2007, 33, 248-261.	4.2	37
183	The role of pyrrhotite (Fe7S8) and the sample texture in the hydrothermal transformation of pentlandite ((Fe,Ni)9S8) to violarite ((Ni,Fe)3S4). Reaction Kinetics and Catalysis Letters, 2007, 92, 257-266.	0.6	21
184	Cleusonite, (Pb,Sr)(U4+,U6+)(Fe2+,Zn)2(Ti,Fe2+,Fe3+)18(O,OH)38, a new mineral species of the crichtonite group from the western Swiss Alps. European Journal of Mineralogy, 2006, 17, 933-942.	1.3	20
185	UVâ€“Vis spectrophotometric and XAFS studies of ferric chloride complexes in hyper-saline LiCl solutions at 25â€“90ÂÂ°C. Chemical Geology, 2006, 231, 326-349.	3.3	105
186	Transformation of pentlandite to violarite under mild hydrothermal conditions. American Mineralogist, 2006, 91, 706-709.	1.9	56
187	A flow-through hydrothermal cell for in situ neutron diffraction studies of phase transformations. Physica B: Condensed Matter, 2006, 385-386, 942-945.	2.7	10
188	Scheuchzerite, Na(Mn,Mg)9[VSi9O28(OH)](OH)3, a new single-chain silicate. American Mineralogist, 2006, 91, 937-943.	1.9	14
189	Pseudojohannite from Jachymov, Musonoi, and La Creusaz: A new member of the zippeite-group. American Mineralogist, 2006, 91, 929-936.	1.9	23
190	Kinetics and Mechanism of Hydrolysis of a Model Phosphate Diester by [Cu(Me3tacn)(OH2)2]2+(Me3tacn = 1,4,7-Trimethyl-1,4,7-triazacyclononane). Inorganic Chemistry, 2005, 44, 941-950.	4.0	70
191	An active amagmatic hydrothermal system: The Paralana hot springs, Northern Flinders Ranges, South Australia. Chemical Geology, 2005, 222, 35-64.	3.3	62
192	Spriggite, Pb₃[(UO₂)₆O₈(OH)₂](H₂O)₃, a new mineral with Î²-U₃O₈â€“type sheets: Description and crystal structure. American Mineralogist, 2004, 89, 339-347.	1.9	42
193	A spectrophotometric study of aqueous copper(I)â€“chloride complexes in LiCl solutions between 100 Â°C and 250 Â°C. Geochimica Et Cosmochimica Acta, 2002, 66, 3615-3633.	3.9	62
194	Origins of Ndâ€“Srâ€“Pb isotopic variations in single scheelite grains from Archaean gold deposits, Western Australia. Chemical Geology, 2002, 182, 203-225.	3.3	87
195	Complexation of metal ions in brines: application of electronic spectroscopy in the study of the Cu(II)-LiCl-H 2 O system between 25 and 90Â°C. Geochimica Et Cosmochimica Acta, 2001, 65, 2691-2708.	3.9	92
196	An experimental study of copper(I)-chloride and copper(I)-acetate complexing in hydrothermal solutions between 50Â°C and 250Â°C and vapor-saturated pressure. Geochimica Et Cosmochimica Acta, 2001, 65, 2937-2948.	3.9	71
197	Description, crystal structure, and paragenesis of krettnichite, PbMn3+2(VO4)2(OH)2, the Mn3+ analogue of mounanaite. European Journal of Mineralogy, 2001, 13, 145-158.	1.3	20
198	Inhomogeneous distribution of REE in scheelite and dynamics of Archaean hydrothermal systems (Mt.) Tj ETQq0 0 0 rgBT /Overlock 10 T Petrology, 2000, 139, 251-264.	3.1	140

#	Article	IF	Citations
199	Description and crystal structure of cabalzarite Ca(Mg,Al,Fe)₂(AsO₄)₂(H₂O,OH)₂, a new mineral of the tsumcorite group. American Mineralogist, 2000, 85, 1307-1314.	1.9	9
200	The crystal structure of vergasovaite Cu3O[(Mo,S)O4SO4]9 and its relation to synthetic Cu3O[MoO4]2. European Journal of Mineralogy, 1999, 11, 101-110.	1.3	25
201	Scheelite-powellite and paraniite-(Y) from the Fe-Mn deposit at Fianel, Eastern Swiss Alps. American Mineralogist, 1998, 83, 1100-1110.	1.9	26
202	Geobiology of <i>In Situ </i>Uranium Leaching. Advanced Materials Research, 0, 825, 372-375.	0.3	4