Chris Ballhaus

List of Publications by Year
in descending order

36	3,135	218677	361022
papers	citations	26 h-index	35 g-index

36	36	36	1978
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rheological properties of calcite oozes: Implications for the fossilisation in the plattenkalks of the Solnhofen-EichstÃtt lagoons in the Franconian Alb, Germany. PLoS ONE, 2021, 16, e0252469.	2.5	0
2	Evolution of magmatic sulfide liquids: how and when base metal sulfides crystallize?. Contributions To Mineralogy and Petrology, 2021, 176, 1.	3.1	29
3	Partition behavior of platinum-group elements during the segregation of arsenide melts from sulfide magma. American Mineralogist, 2020, 105, 1889-1897.	1.9	8
4	Experimental taphonomy of fish - role of elevated pressure, salinity and pH. Scientific Reports, 2020, 10, 7839.	3.3	17
5	Concentrations of Pt, Pd, S, As, Se and Te in silicate melts at sulfide, arsenide, selenide and telluride saturation: evidence of PGE complexing in silicate melts?. Contributions To Mineralogy and Petrology, 2020, 175, 1.	3.1	15
6	Effect of boiling on the acidity of hydrothermal solutions. Contributions To Mineralogy and Petrology, 2019, 174, 1.	3.1	1
7	Fingerprinting fluid sources in Troodos ophiolite complex orbicular glasses using high spatial resolution isotope and trace element geochemistry. Geochimica Et Cosmochimica Acta, 2017, 200, 145-166.	3.9	20
8	Siderite cannot be used as CO2 sensor for Archaean atmospheres. Geochimica Et Cosmochimica Acta, 2017, 214, 209-225.	3.9	14
9	The great sulfur depletion of Earthâ€™s mantle is not a signature of mantleâ€“core equilibration. Contributions To Mineralogy and Petrology, 2017, 172, 1.	3.1	21
10	Spheroidal textures in igneous rocks â€“ Textural consequences of H2O saturation in basaltic melts. Geochimica Et Cosmochimica Acta, 2015, 167, 241-252.	3.9	41
11	Incipient silicification of recent conifer wood at a Yellowstone hot spring. Geochimica Et Cosmochimica Acta, 2015, 149, 79-87.	3.9	31
12	The solubility of palladium and ruthenium in picritic melts: 2. The effect of sulfur. Geochimica Et Cosmochimica Acta, 2013, 108, 172-183.	3.9	75
13	Noble metal nanoclusters and nanoparticles precede mineral formation in magmatic sulphide melts. Nature Communications, 2013, 4, 2405.	12.8	89
14	Asteroidal impacts and the origin of terrestrial and lunar volatiles. Icarus, 2013, 222, 44-52.	2.5	99
15	Sulfide oxidation as a process for the formation of copper-rich magmatic sulfides. Mineralium Deposita, 2013, 48, 115-127.	4.1	38
16	The U/Pb ratio of the Earth's mantleâ€”A signature of late volatile addition. Earth and Planetary Science Letters, 2013, 362, 237-245.	4.4	54
17	Noble metals potential of sulfide-saturated melts from the subcontinental lithosphere. Geology, 2013, 41, 575-578.	4.4	20
18	The silicification of trees in volcanic ash - An experimental study. Geochimica Et Cosmochimica Acta, 2012, 84, 62-74.	3.9	50

#	Article	IF	Citations
19	Experimental Evidence for a Reduced Metal-saturated Upper Mantle. Journal of Petrology, 2011, 52, 717-731.	2.8	66
20	Partitioning of Se, As, Sb, Te and Bi between monosulfide solid solution and sulfide melt â€“ Application to magmatic sulfide deposits. Geochimica Et Cosmochimica Acta, 2010, 74, 6174-6179.	3.9	141
21	Petrogenesis of Lavas along the Solomon Island Arc, SW Pacific: Coupling of Compositional Variations and Subduction Zone Geometry. Journal of Petrology, 2009, 50, 781-811.	2.8	51
22	Metal saturation in the upper mantle. Nature, 2007, 449, 456-458.	27.8	248
23	Formation of Pt, Pd and Ni tellurides: experiments in sulfideâ€“telluride systems.. Contributions To Mineralogy and Petrology, 2007, 153, 577-591.	3.1	125
24	Synthesis of PGE sulfide standards for laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS). Contributions To Mineralogy and Petrology, 2007, 154, 607-617.	3.1	102
25	Fractionation of the noble metals by physical processes. Contributions To Mineralogy and Petrology, 2006, 152, 667-684.	3.1	201
26	Fractionation of the Platinum-Group Elements During Mantle Melting. Science, 2004, 305, 1951-1953.	12.6	266
27	Geochemical constraints on the petrogenesis of arc picrites and basalts, New Georgia Group, Solomon Islands. Contributions To Mineralogy and Petrology, 2004, 148, 288-304.	3.1	92
28	Stabilities of laurite RuS2 and monosulfide liquid solution at magmatic temperature. Chemical Geology, 2004, 208, 265-271.	3.3	145
29	Role of water in the origin of podiform chromitite deposits. Earth and Planetary Science Letters, 2002, 203, 235-243.	4.4	218
30	Phase Relations in the Feâ€“Niâ€“Cuâ€“PGEâ€“S System at Magmatic Temperature and Application to Massive Sulphide Ores of the Sudbury Igneous Complex*. Journal of Petrology, 2001, 42, 1911-1926.	2.8	149
31	Noble Metal Enrichment Processes in the Merensky Reef, Bushveld Complex. Journal of Petrology, 2000, 41, 545-561.	2.8	189
32	Origin of podiform chromite deposits by magma mingling. Earth and Planetary Science Letters, 1998, 156, 185-193.	4.4	127
33	Mobility of core melts during Earth's accretion. Earth and Planetary Science Letters, 1996, 143, 137-145.	4.4	77
34	Is the upper mantle metal-saturated?. Earth and Planetary Science Letters, 1995, 132, 75-86.	4.4	133
35	Platinum-group elements in the Merensky Reef: II. Experimental solubilities of platinum and palladium in Fe1â^'xS from 950 to 450Â°C under controlled and. Geochimica Et Cosmochimica Acta, 1995, 59, 4881-4888.	3.9	85
36	The generation of oxidized CO2-bearing basaltic melts from reduced CH4-bearing upper mantle sources. Geochimica Et Cosmochimica Acta, 1994, 58, 4931-4940.	3.9	98