

Chris Ballhaus

List of Publications by Year in descending order

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36
papers

3,135
citations

218677

26
h-index

361022

35
g-index

36
all docs

36
docs citations

36
times ranked

1978
citing authors

#	ARTICLE	IF	CITATIONS
1	Fractionation of the Platinum-Group Elements During Mantle Melting. <i>Science</i> , 2004, 305, 1951-1953.	12.6	266
2	Metal saturation in the upper mantle. <i>Nature</i> , 2007, 449, 456-458.	27.8	248
3	Role of water in the origin of podiform chromitite deposits. <i>Earth and Planetary Science Letters</i> , 2002, 203, 235-243.	4.4	218
4	Fractionation of the noble metals by physical processes. <i>Contributions To Mineralogy and Petrology</i> , 2006, 152, 667-684.	3.1	201
5	Noble Metal Enrichment Processes in the Merensky Reef, Bushveld Complex. <i>Journal of Petrology</i> , 2000, 41, 545-561.	2.8	189
6	Phase Relations in the Fe-Ni-Cu-PGE-S System at Magmatic Temperature and Application to Massive Sulphide Ores of the Sudbury Igneous Complex*. <i>Journal of Petrology</i> , 2001, 42, 1911-1926.	2.8	149
7	Stabilities of laurite RuS ₂ and monosulfide liquid solution at magmatic temperature. <i>Chemical Geology</i> , 2004, 208, 265-271.	3.3	145
8	Partitioning of Se, As, Sb, Te and Bi between monosulfide solid solution and sulfide melt – Application to magmatic sulfide deposits. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6174-6179.	3.9	141
9	Is the upper mantle metal-saturated?. <i>Earth and Planetary Science Letters</i> , 1995, 132, 75-86.	4.4	133
10	Origin of podiform chromite deposits by magma mingling. <i>Earth and Planetary Science Letters</i> , 1998, 156, 185-193.	4.4	127
11	Formation of Pt, Pd and Ni tellurides: experiments in sulfide-telluride systems.. <i>Contributions To Mineralogy and Petrology</i> , 2007, 153, 577-591.	3.1	125
12	Synthesis of PGE sulfide standards for laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS). <i>Contributions To Mineralogy and Petrology</i> , 2007, 154, 607-617.	3.1	102
13	Asteroidal impacts and the origin of terrestrial and lunar volatiles. <i>Icarus</i> , 2013, 222, 44-52.	2.5	99
14	The generation of oxidized CO ₂ -bearing basaltic melts from reduced CH ₄ -bearing upper mantle sources. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 4931-4940.	3.9	98
15	Geochemical constraints on the petrogenesis of arc picrites and basalts, New Georgia Group, Solomon Islands. <i>Contributions To Mineralogy and Petrology</i> , 2004, 148, 288-304.	3.1	92
16	Noble metal nanoclusters and nanoparticles precede mineral formation in magmatic sulphide melts. <i>Nature Communications</i> , 2013, 4, 2405.	12.8	89
17	Platinum-group elements in the Merensky Reef: II. Experimental solubilities of platinum and palladium in Fe _{1-x} S from 950 to 450°C under controlled and. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 4881-4888.	3.9	85
18	Mobility of core melts during Earth's accretion. <i>Earth and Planetary Science Letters</i> , 1996, 143, 137-145.	4.4	77

#	ARTICLE	IF	CITATIONS
19	The solubility of palladium and ruthenium in picritic melts: 2. The effect of sulfur. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 108, 172-183.	3.9	75
20	Experimental Evidence for a Reduced Metal-saturated Upper Mantle. <i>Journal of Petrology</i> , 2011, 52, 717-731.	2.8	66
21	The U/Pb ratio of the Earth's mantle – A signature of late volatile addition. <i>Earth and Planetary Science Letters</i> , 2013, 362, 237-245.	4.4	54
22	Petrogenesis of Lavas along the Solomon Island Arc, SW Pacific: Coupling of Compositional Variations and Subduction Zone Geometry. <i>Journal of Petrology</i> , 2009, 50, 781-811.	2.8	51
23	The silicification of trees in volcanic ash - An experimental study. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 84, 62-74.	3.9	50
24	Spheroidal textures in igneous rocks – Textural consequences of H ₂ O saturation in basaltic melts. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 167, 241-252.	3.9	41
25	Sulfide oxidation as a process for the formation of copper-rich magmatic sulfides. <i>Mineralium Deposita</i> , 2013, 48, 115-127.	4.1	38
26	Incipient silicification of recent conifer wood at a Yellowstone hot spring. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 149, 79-87.	3.9	31
27	Evolution of magmatic sulfide liquids: how and when base metal sulfides crystallize?. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	29
28	The great sulfur depletion of Earth's mantle is not a signature of mantle-core equilibration. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	3.1	21
29	Noble metals potential of sulfide-saturated melts from the subcontinental lithosphere. <i>Geology</i> , 2013, 41, 575-578.	4.4	20
30	Fingerprinting fluid sources in Troodos ophiolite complex orbicular glasses using high spatial resolution isotope and trace element geochemistry. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 200, 145-166.	3.9	20
31	Experimental taphonomy of fish - role of elevated pressure, salinity and pH. <i>Scientific Reports</i> , 2020, 10, 7839.	3.3	17
32	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?. <i>Contributions To Mineralogy and Petrology</i> , 2020, 175, 1.	3.1	15
33	Siderite cannot be used as CO ₂ sensor for Archaean atmospheres. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 214, 209-225.	3.9	14
34	Partition behavior of platinum-group elements during the segregation of arsenide melts from sulfide magma. <i>American Mineralogist</i> , 2020, 105, 1889-1897.	1.9	8
35	Effect of boiling on the acidity of hydrothermal solutions. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	3.1	1
36	Rheological properties of calcite oozes: Implications for the fossilisation in the plattenkalks of the Solnhofen-Eichstätt lagoons in the Franconian Alb, Germany. <i>PLoS ONE</i> , 2021, 16, e0252469.	2.5	0