Astrid Holzheid

List of Publications by Year
in descending order

43 papers	2,283 citations	361413 20 h-index	265206 42 g-index
45 all docs	45 docs citations	45 times ranked	2078 citing authors

#	Article	IF	Citations
1	Expanding Family of Litharge-Derived Sulfate Minerals and Synthetic Compounds: Preparation and Crystal Structures of [Bi2CuO3]SO4 and [Ln2O2]SO4 (Ln = Dy and Ho). Minerals (Basel, Switzerland), 2020, 10, 887.	2.0	1
2	Multi-Scale Measurements of Neolithic Ceramicsâ€"A Methodological Comparison of Portable Energy-Dispersive XRF, Wavelength-Dispersive XRF, and Microcomputer Tomography. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.0	4
3	Thermal behavior of ferric selenite hydrates (Fe2(SeO3)3Â·3H2O, Fe2(SeO3)3Â·5H2O) and the water content in the natural ferric selenite mandarinoite. Chemie Der Erde, 2018, 78, 228-240.	2.0	7
4	Transparent polycrystalline nanoceramics consisting of triclinic Al₂SiO₅ kyanite and Al₂O₃ corundum. Journal of the American Ceramic Society, 2018, 101, 998-1003.	3.8	6
5	A Calorimetric and Thermodynamic Investigation of the Synthetic Analogue of Mandarinoite, Fe2(SeO3)3â˜™5H2O. Geosciences (Switzerland), 2018, 8, 391.	2.2	3
6	Time-resolved interaction of seawater with gabbro: An experimental study of rare-earth element behavior up to 475 Â°C, 100 MPa. Geochimica Et Cosmochimica Acta, 2017, 197, 167-192.	3.9	8
7	Magmatic evolution of the Jbel Boho alkaline complex in the Bou Azzer inlier (Anti-Atlas/Morocco) and its relation to REE mineralization. Journal of African Earth Sciences, 2017, 129, 202-223.	2.0	16
8	Synthesis of Al₂O₃/SiO₂ nanoâ€nano composite ceramics under high pressure and its inverse Hallâ€"Petch behavior. Journal of the American Ceramic Society, 2017, 100, 323-332.	3.8	16
9	Dissolution kinetics of selected natural minerals relevant to potential CO2-injection sites â€" Part 2: Dissolution and alteration of carbonates and feldspars in CO2-bearing brines. Chemie Der Erde, 2016, 76, 643-657.	2.0	7
10	Dissolution kinetics of selected natural minerals relevant to potential CO2-injection sites â˜ Part 1: A review. Chemie Der Erde, 2016, 76, 621-641.	2.0	8
11	Formation of solid bituminous matter in pegmatites: Constraints from experimentally formed organic matter on microporous silicate minerals. Chemie Der Erde, 2014, 74, 343-351.	2.0	3
12	Element signatures of subduction-zone fluids. An experimental study of the element partitioning (Dfluid/rock) of natural partly altered igneous rocks from the ODP drilling site 1,256. International Journal of Earth Sciences, 2014, 103, 1917-1927.	1.8	4
13	Transparent nanocrystalline bulk alumina obtained at 7.7GPa and 800Â°C. Scripta Materialia, 2013, 69, 362-365.	5.2	59
14	Microfabric and anisotropy of elastic waves in sandstone â€" An observation using high-resolution X-ray microtomography. Journal of Structural Geology, 2013, 49, 35-49.	2.3	13
15	High Structural Complexity of Potassium Uranyl Borates Derived from High-Temperature/High-Pressure Reactions. Inorganic Chemistry, 2013, 52, 5110-5118.	4.0	32
16	Iron sulfide stoichiometry as a monitor of sulfur fugacity in gas-mixing experiments. American Mineralogist, 2013, 98, 1487-1496.	1.9	1
17	Sulphide melt distribution in partially molten silicate aggregates: implications to core formation scenarios in terrestrial planets. European Journal of Mineralogy, 2013, 25, 267-277.	1.3	11
18	Preface: EMPG XIV. European Journal of Mineralogy, 2013, 25, 253-253.	1.3	0

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19	Modeling, parameterization and evaluation of monitoring methods for CO2 storage in deep saline formations: the CO2-MoPa project. Environmental Earth Sciences, 2012, 67, 351-367.	2.7	43
20	Rich Coordination of Nd³⁺ in Mg₂Nd₁₃(BO₃)₈(SiO₄)₄(OH)₃₀, 4 Derived from High-Pressure/High-Temperature Conditions. Inorganic Chemistry, 2012, 51, 3941-3943.	4.8	
21	Synthesis of Uranium Materials under Extreme Conditions: UO₂[B₃Al₄O₁₁(OH)], a Complex 3D Aluminoborate. Chemistry - A European Journal, 2012, 18, 4166-4169.	3.3	15
22	Heterogeneous accretion, composition and coreâ€“mantle differentiation of the Earth. Earth and Planetary Science Letters, 2011, 301, 31-42.	4.4	352
23	Comment on â€œPrediction of metalâ€“silicate partition coefficients for siderophile elements: An update and assessment of PT conditions for metalâ€“silicate equilibrium during accretion of the Earthâ€• by K. Righter, EPSL 304 (2011) 158â€“167, 2011. Earth and Planetary Science Letters, 2011, 312, 516-518.	4.4	9
24	Determination of the formal Ge-oxide species in silicate melts at oxygen fugacities applicable to terrestrial core formation scenarios. European Journal of Mineralogy, 2011, 23, 369-378.	1.3	17
25	Separation of sulfide melt droplets in sulfur saturated silicate liquids. Chemical Geology, 2010, 274, 127-135.	3.3	36
26	New Ni and Co metal-silicate partitioning data and their relevance for an early terrestrial magma ocean. Earth and Planetary Science Letters, 2008, 268, 28-40.	4.4	78
27	The formation of eucrites: Constraints from metalâ€“silicate partition coefficients. Meteoritics and Planetary Science, 2007, 42, 1817-1829.	1.6	24
28	The effect of metal composition on Feâ€“Ni partition behavior between olivine and FeNi-metal, FeNi-carbide, FeNi-sulfide at elevated pressure. Chemical Geology, 2005, 221, 207-224.	3.3	10
29	Fractionation of the Platinum-Group Elements During Mantle Melting. Science, 2004, 305, 1951-1953.	12.6	266
30	Stabilities of laurite RuS2 and monosulfide liquid solution at magmatic temperature. Chemical Geology, 2004, 208, 265-271.	3.3	145
31	Sulfur saturation limits in silicate melts and their implications for core formation scenarios for terrestrial planets. American Mineralogist, 2002, 87, 227-237.	1.9	164
32	Phase equilibria of the Shergotty meteorite: Constraints on preâ€eruptive water contents of martian magmas and fractional crystallization under hydrous conditions. Meteoritics and Planetary Science, 2001, 36, 793-806.	1.6	83
33	Solubility of copper in silicate melts as function of oxygen and sulfur fugacities, temperature, and silicate composition. Geochimica Et Cosmochimica Acta, 2001, 65, 1933-1951.	3.9	77
34	Geochemical evidence for magmatic water within Mars from pyroxenes in the Shergotty meteorite. Nature, 2001, 409, 487-490.	27.8	176
35	Evidence for a late chondritic veneer in the Earth's mantle from high-pressure partitioning of palladium and platinum. Nature, 2000, 406, 396-399.	27.8	141
36	Textural equilibria of iron sulfide liquids in partly molten silicate aggregates and their relevance to core formation scenarios. Journal of Geophysical Research, 2000, 105, 13555-13567.	3.3	51

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37	Partial molar volumes of NiO and CoO liquids: implications for the pressure dependence of metal-silicate partitioning. Earth and Planetary Science Letters, 1999, 171, 171-183.	4.4	15
38	On the lower limit of chondrule cooling rates: The significance of iron loss in dynamic crystallization experiments. Meteoritics and Planetary Science, 1998, 33, 65-74.	1.6	27
39	The activities of NiO, CoO and FeO in silicate melts. Chemical Geology, 1997, 139, 21-38.	3.3	138
40	Core geophysics. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 12742-12743.	7.1	2
41	The influence of FeO on the solubilities of cobalt and nickel in silicate melts. Geochimica Et Cosmochimica Acta, 1996, 60, 1181-1193.	3.9	57
42	The Crî—¸Cr2O3 oxygen buffer and the free energy of formation of Cr2O3 from high-temperature electrochemical measurements. Geochimica Et Cosmochimica Acta, 1995, 59, 475-479.	3.9	32
43	The effect of oxygen fugacity and temperature on solubilities of nickel, cobalt, and molybdenum in silicate melts. Geochimica Et Cosmochimica Acta, 1994, 58, 1975-1981.	3.9	122