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List of Publications by Year in descending order

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29 papers	1,948 citations	430874 18 h-index	477307 29 g-index
29 all docs	29 docs citations	29 times ranked	2113 citing authors

#	Article	IF	Citations
1	Crystallographic and chemical signatures in coral skeletal aragonite. Coral Reefs, 2022, 41, 19-34.	2.2	10
2	The Roebling Apatite, Pulsifer Quarry, Androscoggin County, Maine. Rocks and Minerals, 2022, 97, 8-11.	0.1	1
3	Effects of pH and Ca exchange on the structure and redox state of synthetic Na-birnessite. American Mineralogist, 2021, 106, 15-27.	1.9	18
4	Raman spectroscopy study of manganese oxides: Layer structures. American Mineralogist, 2021, 106, 351-366.	1.9	45
5	Effects of Co doping on the structure and physicochemical properties of hausmannite (Mn3O4) and its transformation during aging. Chemical Geology, 2021, 582, 120448.	3.3	9
6	Coupled morphological and structural evolution of Î´-MnO₂ to Î±-MnO₂ through multistage oriented assembly processes: the role of Mn(<scp>iii</scp>). Environmental Science: Nano, 2020, 7, 238-249.	4.3	10
7	Raman spectroscopy study of manganese oxides: Tunnel structures. American Mineralogist, 2020, 105, 1175-1190.	1.9	65
8	A multi-method characterization of natural terrestrial birnessites. American Mineralogist, 2020, 105, 833-847.	1.9	13
9	Explanation of the Colour Change in Alexandrites. Scientific Reports, 2020, 10, 6130.	3.3	6
10	Mineralogical and geochemical constraints on chromium oxidation induced by birnessite. Applied Geochemistry, 2019, 108, 104365.	3.0	16
11	The relationship between Mn oxidation state and structure in triclinic and hexagonal birnessites. Chemical Geology, 2018, 479, 216-227.	3.3	34
12	Changes in the structure of birnessite during siderophore-promoted dissolution: A time-resolved synchrotron X-ray diffraction study. Chemical Geology, 2018, 476, 46-58.	3.3	8
13	Fourier-transform infrared spectroscopy (FTIR) analysis of triclinic and hexagonal birnessites. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 178, 32-46.	3.9	40
14	XPS determination of Mn oxidation states in Mn (hydr)oxides. Applied Surface Science, 2016, 366, 475-485.	6.1	654
15	Transformations from triclinic to hexagonal birnessite at circumneutral pH induced through pH control by common biological buffers. Chemical Geology, 2015, 416, 1-10.	3.3	26
16	The Hope Diamond: Rare Gem, Historic Jewel. Rocks and Minerals, 2014, 89, 16-26.	0.1	5
17	Experimental simulation of oxygen isotopic exchange in olivine and implication for the formation of metamorphosed carbonaceous chondrites. Meteoritics and Planetary Science, 2013, 48, 2059-2070.	1.6	12
18	A time-resolved X-ray diffraction study of Cs exchange into hexagonal H-birnessite. American Mineralogist, 2013, 98, 671-679.	1.9	19

#	Article	IF	Citations
19	Kinetic analysis of cation exchange in birnessite using time-resolved synchrotron X-ray diffraction. Geochimica Et Cosmochimica Acta, 2011, 75, 3973-3981.	3.9	25
20	Cs-exchange in birnessite: Reaction mechanisms inferred from time-resolved X-ray diffraction and transmission electron microscopy. American Mineralogist, 2009, 94, 816-826.	1.9	49
21	Rietveld refinement of the ranciÃ©ite structure using synchrotron powder diffraction data. Powder Diffraction, 2008, 23, 10-14.	0.2	20
22	Anomalous behavior at the I2/a to Imab phase transition in SiO2-moganite: An analysis using hard-mode Raman spectroscopy. American Mineralogist, 2007, 92, 631-639.	1.9	29
23	Time-resolved structural analysis of K- and Ba-exchange reactions with synthetic Na-birnessite using synchrotron X-ray diffraction. American Mineralogist, 2007, 92, 380-387.	1.9	80
24	Water in the interlayer region of birnessite: Importance in cation exchange and structural stability. American Mineralogist, 2006, 91, 609-618.	1.9	88
25	Rietveld refinement of a triclinic structure for synthetic Na-birnessite using synchrotron powder diffraction data. Powder Diffraction, 2002, 17, 218-221.	0.2	64
26	Evidence for anI2/atoImabphase transition in the silica polymorph moganite at ~570 K. American Mineralogist, 2001, 86, 1358-1366.	1.9	34
27	Characterization of manganese oxide mineralogy in rock varnish and dendrites using X-ray absorption spectroscopy. American Mineralogist, 2001, 86, 701-713.	1.9	245
28	Eight new high-temperature superconductors with the 1:2:4 structure. Physical Review B, 1989, 39, 7347-7350.	3.2	263
29	Synthesis and properties of the 2:4:7 superconductorsR2Ba4Cu7O15âˆ’x(R=Y,Eu,Gd,Dy,Ho,Er). Physical Review B, 1989, 40, 11406-11409.	3.2	60