Daniel R Hummer

List of Publications by Year
in descending order

31	1,047	430442	454577
papers	citations	18 h-index	30 g-index

33	33	33	1519
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evidence for the oxidation of Earthâ€™s crust from the evolution of manganese minerals. Nature Communications, 2022, 13, 960.	5.8	15
2	Global earth mineral inventory: A data legacy. Geoscience Data Journal, 2021, 8, 74-89.	1.8	21
3	Fractal distribution of mineral species among the crystallographic point groups. American Mineralogist, 2021, 106, 1574-1579.	0.9	2
4	Exploring Carbon Mineral Systems: Recent Advances in C Mineral Evolution, Mineral Ecology, and Network Analysis. Frontiers in Earth Science, 2020, 8, .	0.8	29
5	Habitability of hydrothermal systems at Jezero and Gusev Craters as constrained by hydrothermal alteration of a terrestrial mafic dike. Chemie Der Erde, 2020, 80, 125613.	0.8	12
6	Deep Carbon through Deep Time. , 2019, , 620-652.		10
7	Data-Driven Discovery in Mineralogy: Recent Advances in Data Resources, Analysis, and Visualization. Engineering, 2019, 5, 397-405.	3.2	47
8	Forearc carbon sink reduces long-term volatile recycling into the mantle. Nature, 2019, 568, 487-492.	13.7	97
9	The effect of oxidation on the mineralogy and magnetic properties of olivine. American Mineralogist, 2019, 104, 694-702.	0.9	32
10	Analysis and visualization of vanadium mineral diversity and distribution. American Mineralogist, 2018, 103, 1080-1086.	0.9	28
11	ECOLOGY AND EVOLUTION OF MANGANESE MINERALS: IMPLICATIONS FOR THE REDOX HISTORY OF EARTH AND LIFE. , 2018, , .		1
12	Cobalt mineral ecology. American Mineralogist, 2017, 102, 108-116.	0.9	43
13	Chromium mineral ecology. American Mineralogist, 2017, 102, 612-619.	0.9	31
14	Crystal structure of abelsonite, the only known crystalline geoporphyrin. American Mineralogist, 2017, , .	0.9	4
15	Rowleyite, [Na(NH4,K)9Cl4][V25+,4+(P,As)O8]6Â·n[H2O,Na,NH4,K,Cl]â¸ a new mineral with a microporous framework structure. American Mineralogist, 2017, , .	0.9	1
16	Network analysis of mineralogical systems. American Mineralogist, 2017, 102, 1588-1596.	0.9	63
17	Using Visual Exploratory Data Analysis to Facilitate Collaboration and Hypothesis Generation in Cross-Disciplinary Research. ISPRS International Journal of Geo-Information, 2017, 6, 368.	1.4	27
18	AN EXPERIMENTAL LOOK AT THE TAPHONOMY OF CYANOBACTERIAL MATS IN SILICICLASTIC SEDIMENTS. Palaios, 2017, 32, 725-738.	0.6	7

#	Article	IF	Citations
19	Carbon mineral ecology: Predicting the undiscovered minerals of carbon. American Mineralogist, 2016, 101, 889-906.	0.9	46
20	MinKin: A kinetic modeling program for the precipitation, dissolution, and phase transformation of minerals in aqueous solution. Chemical Geology, 2015, 405, 112-122.	1.4	3
21	The Co-Evolution of Fe-Oxides, Ti-Oxides, and Other Microbially Induced Mineral Precipitates In Sandy Sediments: Understanding the Role of Cyanobacteria In Weathering and Early Diagenesis. Journal of Sedimentary Research, 2015, 85, 1213-1227.	0.8	16
22	Ultralow viscosity of carbonate melts at high pressures. Nature Communications, 2014, 5, 5091.	5.8	124
23	Single-Site and Monolayer Surface Hydration Energy of Anatase and Rutile Nanoparticles Using Density Functional Theory. Journal of Physical Chemistry C, 2013, 117, 26084-26090.	1.5	18
24	Electrical and thermal transport properties of iron and ironâ€silicon alloy at high pressure. Geophysical Research Letters, 2013, 40, 5377-5381.	1.5	89
25	Synthesis and crystal chemistry of Fe3+-bearing (Mg,Fe3+)(Si,Fe3+)O3 perovskite. American Mineralogist, 2012, 97, 1915-1921.	0.9	47
26	In situ observations of particle size evolution during the hydrothermal crystallization of TiO2: A time-resolved synchrotron SAXS and WAXS study. Journal of Crystal Growth, 2012, 344, 51-58.	0.7	30
27	Speciation of <scp>l</scp>-DOPA on Nanorutile as a Function of pH and Surface Coverage Using Surface-Enhanced Raman Spectroscopy (SERS). Langmuir, 2012, 28, 17322-17330.	1.6	32
28	Origin of Nanoscale Phase Stability Reversals in Titanium Oxide Polymorphs. Journal of Physical Chemistry C, 2009, 113, 4240-4245.	1.5	62
29	Corrections to â€œThermal expansion of anatase and rutile between 300 and 575 K using synchrotron powder X-ray diffractionâ€•[Powder Diffr. 22, 352â€“357 (2007)]. Powder Diffraction, 2008, 23, 267-267.	0.4	3
30	Applications of time-resolved synchrotron X-ray diffraction to cation exchange, crystal growth and biomineralization reactions. Mineralogical Magazine, 2008, 72, 179-184.	0.6	4
31	Thermal expansion of anatase and rutile between 300 and 575 K using synchrotron powder X-ray diffraction. Powder Diffraction, 2007, 22, 352-357.	0.4	102