

Sebastian T Mergelsberg

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

413
citations

933264

10
h-index

752573

20
g-index

22
all docs

22
docs citations

22
times ranked

438
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical and physical controls on the transformation of amorphous calcium carbonate into crystalline CaCO ₃ polymorphs. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 196, 179-196.	1.6	157
2	Metastable solubility and local structure of amorphous calcium carbonate (ACC). <i>Geochimica Et Cosmochimica Acta</i> , 2020, 289, 196-206.	1.6	27
3	A new method for <i>in situ</i> structural investigations of nano-sized amorphous and crystalline materials using mixed-flow reactors. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, 758-765.	0.0	21
4	Association of Defects and Zinc in Hematite. <i>Environmental Science & Technology</i> , 2019, 53, 13687-13694.	4.6	20
5	Immobilizing Pertechnetate in Ettringite via Sulfate Substitution. <i>Environmental Science & Technology</i> , 2020, 54, 13610-13618.	4.6	20
6	Impacts of Initial Ca/P on Amorphous Calcium Phosphate. <i>Crystal Growth and Design</i> , 2021, 21, 3736-3745.	1.4	19
7	In situ imaging of amorphous intermediates during brucite carbonation in supercritical CO ₂ . <i>Nature Materials</i> , 2022, 21, 345-351.	13.3	18
8	Low temperature and limited water activity reveal a pathway to magnesite <i>via</i> amorphous magnesium carbonate. <i>Chemical Communications</i> , 2020, 56, 12154-12157.	2.2	17
9	Thin Water Films Enable Low-Temperature Magnesite Growth Under Conditions Relevant to Geologic Carbon Sequestration. <i>Environmental Science & Technology</i> , 2021, 55, 12539-12548.	4.6	17
10	Composition Systematics in the Exoskeleton of the American Lobster, <i>Homarus americanus</i> and Implications for Malacostraca. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	12
11	Competitive TcO ₄ ²⁻ , IO ₃ ⁻ , and CrO ₄ ²⁻ Incorporation into Ettringite. <i>Environmental Science & Technology</i> , 2021, 55, 1057-1066.	4.6	11
12	Ab Initio Molecular Dynamics Simulations of Amorphous Calcium Carbonate: Interpretation of Pair Distribution Function and X-ray Absorption Spectroscopy Data. <i>Crystal Growth and Design</i> , 2021, 21, 2212-2221.	1.4	10
13	Using Atom Dynamics to Map the Defect Structure Around an Impurity in Nano-Hematite. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10396-10400.	2.1	9
14	Identification of Radiolytically-Active Thermal Transition Phases in Boehmite. <i>Thermochimica Acta</i> , 2020, 689, 178611.	1.2	8
15	Hydroxide promotes ion pairing in the NaNO ₂ •NaOH•H ₂ O system. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 112-122.	1.3	8
16	Effect of Cd on the Nucleation and Transformation of Amorphous Calcium Carbonate. <i>Crystal Growth and Design</i> , 2021, 21, 3384-3393.	1.4	7
17	Behavior of iodate substituted ettringite during aqueous leaching. <i>Applied Geochemistry</i> , 2021, 125, 104863.	1.4	6
18	Resolving Configurational Disorder for Impurities in a Low-Entropy Phase. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5689-5694.	2.1	6

#	ARTICLE	IF	CITATIONS
19	Effect of Temperature on Local Hydration of Zn in Hematite. ACS Earth and Space Chemistry, 2022, 6, 551-557.	1.2	6
20	Mesoporous silica-encapsulated gold core-shell nanoparticles for active solvent-free benzyl alcohol oxidation. Reaction Chemistry and Engineering, 2020, 5, 1939-1949.	1.9	5
21	Cluster defects in gibbsite nanoplates grown at acidic to neutral pH. Nanoscale, 2021, 13, 17373-17385.	2.8	5
22	Selective Interactions of Soil Organic Matter Compounds with Calcite and the Role of Aqueous Ca. ACS Earth and Space Chemistry, 0, , .	1.2	4