

Benjamin A Legg

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,066
citations

430442

18
h-index

610482

24
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all docs

25
docs citations

25
times ranked

1852
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamics, kinetics, and crystallization of Pt _{57.3} Cu _{14.6} Ni _{5.3} P _{22.8} bulk metallic glass. <i>Acta Materialia</i> , 2007, 55, 1109-1116.	3.8	117
2	Supersaturated calcium carbonate solutions are classical. <i>Science Advances</i> , 2018, 4, eaao6283.	4.7	116
3	Self-similar mesocrystals form via interface-driven nucleation and assembly. <i>Nature</i> , 2021, 590, 416-422.	13.7	98
4	Aggregation-induced growth and transformation of β -FeOOH nanorods to micron-sized α -Fe ₂ O ₃ spindles. <i>CrystEngComm</i> , 2014, 16, 1451-1458.	1.3	93
5	Early Stage Formation of Iron Oxyhydroxides during Neutralization of Simulated Acid Mine Drainage Solutions. <i>Environmental Science & Technology</i> , 2012, 46, 8140-8147.	4.6	74
6	Precipitation pathways for ferrihydrite formation in acidic solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 172, 247-264.	1.6	67
7	Size-Dependent Bandgap of Nanogoethite. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17704-17710.	1.5	66
8	Early stage structural development of prototypical zeolitic imidazolate framework (ZIF) in solution. <i>Nanoscale</i> , 2018, 10, 4291-4300.	2.8	56
9	Impacts of Ionic Strength on Three-Dimensional Nanoparticle Aggregate Structure and Consequences for Environmental Transport and Deposition. <i>Environmental Science & Technology</i> , 2014, 48, 13703-13710.	4.6	50
10	Near surface nucleation and particle mediated growth of colloidal Au nanocrystals. <i>Nanoscale</i> , 2018, 10, 11907-11912.	2.8	48
11	Impact of Solution Chemistry and Particle Anisotropy on the Collective Dynamics of Oriented Aggregation. <i>ACS Nano</i> , 2018, 12, 10114-10122.	7.3	40
12	Determination of the Three-Dimensional Structure of Ferrihydrite Nanoparticle Aggregates. <i>Langmuir</i> , 2014, 30, 9931-9940.	1.6	34
13	Moving beyond the Solvent-Tip Approximation to Determine Site-Specific Variations of Interfacial Water Structure through 3D Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1282-1291.	1.5	31
14	Direct observation of anisotropic growth of water films on minerals driven by defects and surface tension. <i>Science Advances</i> , 2020, 6, eaaz9708.	4.7	27
15	Visualization of Aluminum Ions at the Mica Water Interface Links Hydrolysis State-to-Surface Potential and Particle Adhesion. <i>Journal of the American Chemical Society</i> , 2020, 142, 6093-6102.	6.6	24
16	Direct Observation of the Orientational Anisotropy of Buried Hydroxyl Groups inside Muscovite Mica. <i>Journal of the American Chemical Society</i> , 2019, 141, 2135-2142.	6.6	23
17	A Model for Nucleation When Nuclei Are Nonstoichiometric: Understanding the Precipitation of Iron Oxyhydroxide Nanoparticles. <i>Crystal Growth and Design</i> , 2016, 16, 5726-5737.	1.4	19
18	Kinetics of crystal growth of nanogoethite in aqueous solutions containing nitrate and sulfate anions. <i>CrystEngComm</i> , 2014, 16, 1466-1471.	1.3	18

#	ARTICLE	IF	CITATIONS
19	Investigating the magnitude and source of orientation-dependent interactions between TiO ₂ crystal surfaces. <i>Nanoscale</i> , 2017, 9, 10173-10177.	2.8	15
20	The energetics of prenucleation clusters in lattice solutions. <i>Journal of Chemical Physics</i> , 2016, 145, 211921.	1.2	13
21	Hydrogen bonding and molecular orientations across thin water films on sapphire. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 810-817.	5.0	12
22	Epitaxial Growth of Gibbsite Sheets on the Basal Surface of Muscovite Mica. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27615-27627.	1.5	10
23	<i>In situ</i> characterization of kinetics and mass transport of PbSe nanowire growth <i>via</i> LS and VLS mechanisms. <i>Nanoscale</i> , 2019, 11, 5874-5878.	2.8	9
24	Rotational dynamics and transition mechanisms of surface-adsorbed proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2020242119.	3.3	6
25	A New Pathway for the Formation of Co-aligned Hierarchical Mesocrystals. <i>Microscopy and Microanalysis</i> , 2020, 26, 1438-1439.	0.2	0