

Rachel D Davidson

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

399
citations

1307594

7
h-index

1372567

10
g-index

13
all docs

13
docs citations

13
times ranked

715
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamics of Wettability: A Physical Chemistry Laboratory Experiment. <i>Journal of Chemical Education</i> , 2022, 99, 2689-2696.	2.3	2
2	Halide Replacement with Complete Preservation of Crystal Lattice in Mixed-Anion Lanthanide Oxyhalides. <i>Angewandte Chemie</i> , 2021, 133, 15710-15717.	2.0	1
3	Halide Replacement with Complete Preservation of Crystal Lattice in Mixed-Anion Lanthanide Oxyhalides. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15582-15589.	13.8	11
4	Structure-Dependent Accessibility of Phonon-Coupled Radiative Relaxation Pathways Probed by X-ray-Excited Optical Luminescence. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11170-11175.	4.6	0
5	Mapping mechanisms and growth regimes of magnesium electrodeposition at high current densities. <i>Materials Horizons</i> , 2020, 7, 843-854.	12.2	77
6	Curvature-Induced Modification of Mechano-Electrochemical Coupling and Nucleation Kinetics in a Cathode Material. <i>Matter</i> , 2020, 3, 1754-1773.	10.0	18
7	Navigating the design space of inorganic materials synthesis using statistical methods and machine learning. <i>Dalton Transactions</i> , 2020, 49, 11480-11488.	3.3	24
8	Tortuosity but Not Percolation: Design of Exfoliated Graphite Nanocomposite Coatings for Extended Corrosion Protection of Aluminum Alloys. <i>ACS Applied Nano Materials</i> , 2019, 2, 3100-3116.	5.0	27
9	Magnesium Nanocomposite Coatings for Protection of a Lightweight Al Alloy: Modes of Corrosion Protection, Mechanisms of Failure. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800817.	1.8	6
10	Formation of Magnesium Dendrites during Electrodeposition. <i>ACS Energy Letters</i> , 2019, 4, 375-376.	17.4	221
11	In a Different Light: Deciphering Optical and X-ray Sensitization Mechanisms in an Expanded Palette of LaOCl Phosphors. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16412-16423.	3.1	11
12	Graphene Coatings for the Corrosion Protection of Base Metals. , 2016, , 155-176.		1