

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