

Maxwell D Radin

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

2,298
citations

361413

20
h-index

580821

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25
all docs

25
docs citations

25
times ranked

3300
citing authors

#	ARTICLE	IF	CITATIONS
1	Order-disorder versus displacive transitions in Jahn-Teller active layered materials. <i>Physical Review Materials</i> , 2020, 4, .	2.4	17
2	Manganese oxidation as the origin of the anomalous capacity of Mn-containing Li-excess cathode materials. <i>Nature Energy</i> , 2019, 4, 639-646.	39.5	164
3	Revisiting the charge compensation mechanisms in $\text{LiNi}_{0.8}\text{Co}_{0.2}\text{AlO}_2$ systems. <i>Materials Horizons</i> , 2019, 6, 2112-2123.	12.2	62
4	Phase Stability and Electronic Structure of Tin Sulfide Compounds for Li-ion Batteries. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29086-29095.	3.1	2
5	Fundamental insights about interlayer cation migration in Li-ion electrodes at high states of charge. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11996-12007.	10.3	12
6	Simulating Charge, Spin, and Orbital Ordering: Application to Jahn-Teller Distortions in Layered Transition-Metal Oxides. <i>Chemistry of Materials</i> , 2018, 30, 607-618.	6.7	35
7	The nickel battery positive electrode revisited: stability and structure of the $\hat{\Gamma}^2$ -NiOOH phase. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19256-19265.	10.3	27
8	Phase Evolution and Degradation Modes of $\text{Li}_x\text{Ni}_y\text{Al}_z\text{O}_2$ Electrodes Cycled Near Complete Delithiation. <i>Chemistry of Materials</i> , 2018, 30, 7545-7574.	6.7	30
9	Role of Crystal Symmetry in the Reversibility of Stacking-Sequence Changes in Layered Intercalation Electrodes. <i>Nano Letters</i> , 2017, 17, 7789-7795.	9.1	76
10	Narrowing the Gap between Theoretical and Practical Capacities in Li-ion Layered Oxide Cathode Materials. <i>Advanced Energy Materials</i> , 2017, 7, 1602888.	19.5	455
11	Ion Pairing and Diffusion in Magnesium Electrolytes Based on Magnesium Borohydride. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43755-43766.	8.0	34
12	Identifying the Distribution of Al^{3+} in $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$. <i>Chemistry of Materials</i> , 2016, 28, 8170-8180.	6.7	77
13	Stability of Prismatic and Octahedral Coordination in Layered Oxides and Sulfides Intercalated with Alkali and Alkaline-Earth Metals. <i>Chemistry of Materials</i> , 2016, 28, 7898-7904.	6.7	82
14	Stacking-Sequence Changes and Na Ordering in Layered Intercalation Materials. <i>Chemistry of Materials</i> , 2016, 28, 8640-8650.	6.7	66
15	How Dopants Can Enhance Charge Transport in Li_2O_2 . <i>Chemistry of Materials</i> , 2015, 27, 839-847.	6.7	79
16	Non-aqueous Metal-Oxygen Batteries: Past, Present, and Future. <i>Green Energy and Technology</i> , 2015, , 511-539.	0.6	11
17	Impact of Space-Charge Layers on Sudden Death in Li/O_2 Batteries. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3017-3022.	4.6	53
18	Capacitive charge storage at an electrified interface investigated via direct first-principles simulations. <i>Physical Review B</i> , 2015, 91, .	3.2	25

#	ARTICLE	IF	CITATIONS
19	Surface-Mediated Solvent Decomposition in Li-Air Batteries: Impact of Peroxide and Superoxide Surface Terminations. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9050-9060.	3.1	36
20	Thermophysical properties of LiFePO ₄ cathodes with carbonized pitch coatings and organic binders: Experiments and first-principles modeling. <i>Journal of Power Sources</i> , 2014, 251, 8-13.	7.8	30
21	Enhanced Charge Transport in Amorphous Li ₂ O ₂ . <i>Chemistry of Materials</i> , 2014, 26, 2952-2959.	6.7	202
22	Charge transport in lithium peroxide: relevance for rechargeable metal-air batteries. <i>Energy and Environmental Science</i> , 2013, 6, 2370.	30.8	293
23	Electronic structure of Li ₂ O ₂ {0001} surfaces. <i>Journal of Materials Science</i> , 2012, 47, 7564-7570.	3.7	82
24	Lithium Peroxide Surfaces Are Metallic, While Lithium Oxide Surfaces Are Not. <i>Journal of the American Chemical Society</i> , 2012, 134, 1093-1103.	13.7	331
25	A conceptual design for the Thirty Meter Telescope alignment and phasing system. <i>Proceedings of SPIE</i> , 2008, , .	0.8	17