

# Maxwell D Radin

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

2,298  
citations

361296

20  
h-index

580701

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

3300  
citing authors

#	ARTICLE	IF	CITATIONS
1	Narrowing the Gap between Theoretical and Practical Capacities in Li-ion Layered Oxide Cathode Materials. <i>Advanced Energy Materials</i> , 2017, 7, 1602888.	10.2	455
2	Lithium Peroxide Surfaces Are Metallic, While Lithium Oxide Surfaces Are Not. <i>Journal of the American Chemical Society</i> , 2012, 134, 1093-1103.	6.6	331
3	Charge transport in lithium peroxide: relevance for rechargeable metal-air batteries. <i>Energy and Environmental Science</i> , 2013, 6, 2370.	15.6	293
4	Enhanced Charge Transport in Amorphous $\text{Li}_2\text{O}_2$ . <i>Chemistry of Materials</i> , 2014, 26, 2952-2959.	3.2	202
5	Manganese oxidation as the origin of the anomalous capacity of Mn-containing Li-excess cathode materials. <i>Nature Energy</i> , 2019, 4, 639-646.	19.8	164
6	Electronic structure of $\text{Li}_2\text{O}_2$ {0001} surfaces. <i>Journal of Materials Science</i> , 2012, 47, 7564-7570.	1.7	82
7	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.	3.2	82
8	How Dopants Can Enhance Charge Transport in $\text{Li}_2\text{O}_2$ . <i>Chemistry of Materials</i> , 2015, 27, 839-847.	3.2	79
9	Identifying the Distribution of $\text{Al}^{3+}$ 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.	3.2	77
10	Role of Crystal Symmetry in the Reversibility of Stacking-Sequence Changes in Layered Intercalation Electrodes. <i>Nano Letters</i> , 2017, 17, 7789-7795.	4.5	76
11	Stacking-Sequence Changes and Na Ordering in Layered Intercalation Materials. <i>Chemistry of Materials</i> , 2016, 28, 8640-8650.	3.2	66
12	Revisiting the charge compensation mechanisms in $\text{LiNi}_{0.8}\text{Co}_{0.2}\text{Al}_y\text{O}_2$ systems. <i>Materials Horizons</i> , 2019, 6, 2112-2123.	6.4	62
13	Impact of Space-Charge Layers on Sudden Death in $\text{Li}/\text{O}_2$ Batteries. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3017-3022.	2.1	53
14	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.	1.5	36
15	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.	3.2	35
16	Ion Pairing and Diffusion in Magnesium Electrolytes Based on Magnesium Borohydride. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 43755-43766.	4.0	34
17	Thermophysical properties of $\text{LiFePO}_4$ cathodes with carbonized pitch coatings and organic binders: Experiments and first-principles modeling. <i>Journal of Power Sources</i> , 2014, 251, 8-13.	4.0	30
18	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.	3.2	30

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19	The nickel battery positive electrode revisited: stability and structure of the $\hat{P}^2$ -NiOOH phase. Journal of Materials Chemistry A, 2018, 6, 19256-19265.	5.2	27
20	Capacitive charge storage at an electrified interface investigated via direct first-principles simulations. Physical Review B, 2015, 91, .	1.1	25
21	A conceptual design for the Thirty Meter Telescope alignment and phasing system. Proceedings of SPIE, 2008, , .	0.8	17
22	Order-disorder versus displacive transitions in Jahn-Teller active layered materials. Physical Review Materials, 2020, 4, .	0.9	17
23	Fundamental insights about interlayer cation migration in Li-ion electrodes at high states of charge. Journal of Materials Chemistry A, 2019, 7, 11996-12007.	5.2	12
24	Non-aqueous Metalâ€“Oxygen Batteries: Past, Present, and Future. Green Energy and Technology, 2015, , 511-539.	0.4	11
25	Phase Stability and Electronic Structure of Tin Sulfide Compounds for Li-ion Batteries. Journal of Physical Chemistry C, 2019, 123, 29086-29095.	1.5	2