

Eric Russell McCalla

List of Publications by Year in descending order

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29
papers

1,806
citations

516710

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477307

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docs citations

32
times ranked

2384
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualization of O-O peroxy-like dimers in high-capacity layered oxides for Li-ion batteries. <i>Science</i> , 2015, 350, 1516-1521.	12.6	659
2	Evidence for anionic redox activity in a tridimensional-ordered Li-rich positive electrode $\text{Li}_2\text{Li}_2\text{IrO}_3$. <i>Nature Materials</i> , 2017, 16, 580-586.	27.5	290
3	Understanding the Roles of Anionic Redox and Oxygen Release during Electrochemical Cycling of Lithium-Rich Layered $\text{Li}_4\text{FeSbO}_6$. <i>Journal of the American Chemical Society</i> , 2015, 137, 4804-4814.	13.7	155
4	Strong Oxygen Participation in the Redox Governing the Structural and Electrochemical Properties of Na-Rich Layered Oxide Na_2IrO_3 . <i>Chemistry of Materials</i> , 2016, 28, 8278-8288.	6.7	132
5	X-ray Photoemission Spectroscopy Study of Cationic and Anionic Redox Processes in High-Capacity Li-Ion Battery Layered-Oxide Electrodes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 862-874.	3.1	122
6	Reversible Li-Intercalation through Oxygen Reactivity in Li-Rich Li-Fe-Te Oxide Materials. <i>Journal of the Electrochemical Society</i> , 2015, 162, A1341-A1351.	2.9	47
7	Novel Complex Stacking of Fully-Ordered Transition Metal Layers in $\text{Li}_4\text{FeSbO}_6$ Materials. <i>Chemistry of Materials</i> , 2015, 27, 1699-1708.	6.7	40
8	Combinatorial Study of the Li-Ni-Mn-Co Oxide Pseudoquaternary System for Use in Li -Ion Battery Materials Research. <i>ACS Combinatorial Science</i> , 2015, 17, 381-391.	3.8	39
9	Evaluating the effectiveness of <i>in situ</i> characterization techniques in overcoming mechanistic limitations in lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2022, 15, 1423-1460.	30.8	37
10	Template-free synthesis and photocatalytic activity of hierarchical porous titania with controlled texture and crystalline structure. <i>Applied Catalysis A: General</i> , 2010, 387, 231-241.	4.3	27
11	The role of metal substitutions in the development of Li batteries, part I: cathodes. <i>Materials Advances</i> , 2021, 2, 3474-3518.	5.4	22
12	Development of High-Throughput Methods for Sodium-Ion Battery Cathodes. <i>ACS Combinatorial Science</i> , 2020, 22, 311-318.	3.8	21
13	The role of metal substitutions in the development of Li batteries, part II: solid electrolytes. <i>Materials Advances</i> , 2021, 2, 2846-2875.	5.4	21
14	Electrical transport, magnetic, and thermodynamic properties of La-, Pr-, and Nd-doped BaSn_3O_7 single crystals. <i>Physical Review Materials</i> , 2018, 2, .	2.4	20
15	Accelerated Screening of High-Energy Lithium-Ion Battery Cathodes. <i>ACS Applied Energy Materials</i> , 2019, 2, 8388-8393.	5.1	18
16	Synthesis of Boroxine and Dioxaborole Covalent Organic Frameworks via Transesterification and Metathesis of Pinacol Boronates. <i>Journal of the American Chemical Society</i> , 2021, 143, 13274-13280.	13.7	17
17	Strain in electroless copper films monitored by X-ray diffraction during and after deposition and its dependence on bath chemistry. <i>Thin Solid Films</i> , 2011, 519, 4377-4383.	1.8	16
18	Impact of Nickel Substitution into Model Li-Rich Oxide Cathode Materials for Li-Ion Batteries. <i>Chemistry of Materials</i> , 2020, 32, 849-857.	6.7	16

#	ARTICLE	IF	CITATIONS
19	Metastability in Li-La-Ti-O Perovskite Materials and Its Impact on Ionic Conductivity. Chemistry of Materials, 2021, 33, 4792-4804.	6.7	15
20	High-throughput design of Na-Fe-Mn-O cathodes for Na-ion batteries. Journal of Materials Chemistry A, 2021, 10, 251-265.	10.3	15
21	A Unified View of the Substitution-Dependent Antiferrodistortive Phase Transition in SrTiO ₃ . Chemistry of Materials, 2016, 28, 7973-7981.	6.7	14
22	Amorphization of crystalline orthoboric acid on a vitreous B ₂ O ₃ substrate. Journal of Materials Research, 2002, 17, 3098-3104.	2.6	13
23	Combinatorial methods in advanced battery materials design. Canadian Journal of Chemistry, 2022, 100, 132-143.	1.1	12
24	Suite of High-Throughput Experiments for Screening Solid Electrolytes for Li Batteries. Journal of the Electrochemical Society, 2022, 169, 050504.	2.9	9
25	Consequences of Combinatorial Studies of Positive Electrodes for Li-ion Batteries. Springer Theses, 2014, . .	0.1	8
26	Changes in physical properties of 4C pyrrhotite (Fe ₇ S ₈) across the 32 K Besnus transition. American Mineralogist, 2018, 103, 1674-1689.	1.9	8
27	Topology to improve battery technology. Nature Sustainability, 2022, 5, 181-182.	23.7	5
28	High-throughput development of Na ₂ ZnSiO ₄ -based hybrid electrolytes for sodium-ion batteries. Journal of Power Sources, 2022, 541, 231706.	7.8	5
29	Understanding magnetic phase coexistence in Ru ₂ Mn ₃ Heusler alloys: A neutron scattering, thermodynamic, and phenomenological analysis. Physical Review Materials, 2021, 5, .	2.4	3