

Liang Yin

List of Publications by Year in descending order

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times ranked

867
citing authors

#	ARTICLE	IF	CITATIONS
1	Intercalation of Ca into a Highly Defective Manganese Oxide at Room Temperature. Chemistry of Materials, 2022, 34, 836-846.	6.7	10
2	Operando Synchrotron Studies of Inhomogeneity during Anode-Free Plating of Li Metal in Pouch Cell Batteries. Journal of the Electrochemical Society, 2022, 169, 020571.	2.9	12
3	Investigation of Ca Insertion into $\text{Ca}_3\text{MoO}_{13}$ Nanoparticles for High Capacity Ca-Ion Cathodes. Nano Letters, 2022, 22, 2228-2235.	9.1	16
4	Facile Electrochemical Mg-Ion Transport in a Defect-Free Spinel Oxide. Chemistry of Materials, 2022, 34, 3789-3797.	6.7	5
5	Origin and regulation of oxygen redox instability in high-voltage battery cathodes. Nature Energy, 2022, 7, 808-817.	39.5	55
6	(Digital Presentation) Regulating Anion Redox during Cycling of Spinel $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{O}_4$ As Cathodes for Lithium Ion Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 380-380.	0.0	0
7	Control of crystal size tailors the electrochemical performance of V_2O_5 as a Mg^{2+} intercalation host. Nanoscale, 2021, 13, 10081-10091.	5.6	7
8	Calcium-Ion Materials: A Next Generation MV Energy Storage System. ECS Meeting Abstracts, 2021, MA2021-01, 307-307.	0.0	0
9	Structural and Electrochemical Investigation of High Energy Spinel $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{O}_4$ Produced at Low Temperature. ECS Meeting Abstracts, 2021, MA2021-01, 144-144.	0.0	0
10	The Role of Cobalt and Manganese for the Safety of Ni-Rich NMC Cathode. ECS Meeting Abstracts, 2021, MA2021-01, 304-304.	0.0	1
11	In situ observation of thermal-driven degradation and safety concerns of lithiated graphite anode. Nature Communications, 2021, 12, 4235.	12.8	74
12	Operando X-ray Diffraction Studies of the Mg-Ion Migration Mechanisms in Spinel Cathodes for Rechargeable Mg-Ion Batteries. Journal of the American Chemical Society, 2021, 143, 10649-10658.	13.7	24
13	Stress- and Interface-Compatible Red Phosphorus Anode for High-Energy and Durable Sodium-Ion Batteries. ACS Energy Letters, 2021, 6, 547-556.	17.4	33
14	Non-Arrhenius Ionic Conductivity Transitions in Sodium Antiperovskite Ionic Conductors. ECS Meeting Abstracts, 2021, MA2021-02, 43-43.	0.0	2
15	Temperature Dependent Anion Rotational Dynamics Correlated to Cation Transport in Cluster Ion Anti-Perovskites. ECS Meeting Abstracts, 2021, MA2021-02, 1-1.	0.0	0
16	Probing Depth-Dependent Performance Limitations in Thick NMC Cathodes with Fine Spatial and Temporal Resolution. ECS Meeting Abstracts, 2021, MA2021-02, 281-281.	0.0	0
17	Mapping the Deposition of Li Metal in Pouch Cells By Synchrotron Diffraction. ECS Meeting Abstracts, 2021, MA2021-02, 129-129.	0.0	0
18	Best practices for <i>operando</i> depth-resolving battery experiments. Journal of Applied Crystallography, 2020, 53, 133-139.	4.5	8

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19	Thermodynamics of Antisite Defects in Layered NMC Cathodes: Systematic Insights from High-Precision Powder Diffraction Analyses. Chemistry of Materials, 2020, 32, 1002-1010.	6.7	44
20	High Voltage Mg-Ion Battery Cathode via a Solid Solution Cr ²⁺ Mn Spinel Oxide. Chemistry of Materials, 2020, 32, 6577-6587.	6.7	48
21	High Capacity for Mg ²⁺ Deintercalation in Spinel Vanadium Oxide Nanocrystals. ACS Energy Letters, 2020, 5, 2721-2727.	17.4	48
22	Dynamics of Hydroxyl Anions Promotes Lithium Ion Conduction in Antiperovskite Li ₂ OHCl. Chemistry of Materials, 2020, 32, 8481-8491.	6.7	53
23	High-Voltage Phosphate Cathodes for Rechargeable Ca-Ion Batteries. ACS Energy Letters, 2020, 5, 3203-3211.	17.4	65
24	Enhanced charge storage of nanometric V ₂ O ₅ in Mg electrolytes. Nanoscale, 2020, 12, 22150-22160.	5.6	15
25	Probing the Thermal-Driven Structural and Chemical Degradation of Ni-Rich Layered Cathodes by Co/Mn Exchange. Journal of the American Chemical Society, 2020, 142, 19745-19753.	13.7	122
26	Synchrotron Operando Depth Profiling Studies of State-of-Charge Gradients in Thick Li(Ni _{0.8} Mn _{0.1} Co _{0.1})O ₂ Cathode Films. Chemistry of Materials, 2020, 32, 6358-6364.	6.7	17
27	Toward High Voltage Mg-Ion Battery Cathode Via a Solid-Solution Cr-Mn Spinel Oxide. ECS Meeting Abstracts, 2020, MA2020-02, 269-269.	0.0	0
28	Tuning Ionic Conductivity in Sodium Anti-Perovskite Ionic Conductors. ECS Meeting Abstracts, 2020, MA2020-02, 945-945.	0.0	0
29	Understanding the Structural Disorder Related to Ionic Conductivity Enhancement in Anti-Perovskite Ion Conductors. ECS Meeting Abstracts, 2020, MA2020-02, 967-967.	0.0	2
30	Temperature-Dependent Atomistic Dynamics Correlated to Cation Transport in Cluster-Ion Anti-Perovskites. ECS Meeting Abstracts, 2020, MA2020-02, 966-966.	0.0	0
31	Ion Transport in Chromite Spinels for Multivalent Battery Applications. ECS Meeting Abstracts, 2020, MA2020-02, 315-315.	0.0	0
32	(Invited) Calcium-Ion Cathode Materials. ECS Meeting Abstracts, 2020, MA2020-02, 222-222.	0.0	0
33	Understanding Local Distortions in NMC Cathodes. ECS Meeting Abstracts, 2019, , .	0.0	0
34	Extending the limits of powder diffraction analysis: Diffraction parameter space, occupancy defects, and atomic form factors. Review of Scientific Instruments, 2018, 89, 093002.	1.3	18
35	Li ₃ VP ₃ O ₉ N as a Multielectron Redox Cathode for Li-Ion Battery. Chemistry of Materials, 2018, 30, 4609-4616.	6.7	12
36	Quantification and Prediction of NMC Defect Concentrations. ECS Meeting Abstracts, 2018, , .	0.0	0

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37	In Operando Depth Profiling Studies of Thick NMC Cathodes. ECS Meeting Abstracts, 2018, , .	0.0	0
38	Quantification of Honeycomb Number-Type Stacking Faults: Application to Na ₃ Ni ₂ BiO ₆ Cathodes for Na-Ion Batteries. Inorganic Chemistry, 2016, 55, 8478-8492.	4.0	51