

Xin Cao

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Restraining Oxygen Loss and Suppressing Structural Distortion in a Newly Ti-Substituted Layered Oxide $\text{P2-Na}_{0.66}\text{Li}_{0.22}\text{Ti}_{0.15}\text{Mn}_{0.63}\text{O}_{2}$. ACS Energy Letters, 2019, 4, 2409-2417.	17.4	112
2	Developing a Polysulfide Phobic Strategy to Restrain Shuttle Effect in Lithium Sulfur Batteries. Angewandte Chemie - International Edition, 2019, 58, 11774-11778.	13.8	100
3	Stabilizing Reversible Oxygen Redox Chemistry in Layered Oxides for Sodium Ion Batteries. Advanced Energy Materials, 2020, 10, 1903785.	19.5	87
4	Stabilizing Anionic Redox Chemistry in a Mn-Based Layered Oxide Cathode Constructed by Li-Deficient Pristine State. Advanced Materials, 2021, 33, e2004280.	21.0	67
5	Restraining Oxygen Release and Suppressing Structure Distortion in Single-Crystal Li-Rich Layered Cathode Materials. Advanced Functional Materials, 2022, 32, 2110295.	14.9	62
6	Ion-Exchange: A Promising Strategy to Design Li-Rich and Li-Excess Layered Cathode Materials for Li-Ion Batteries. Advanced Energy Materials, 2022, 12, 2003972.	19.5	49
7	Achieving stable anionic redox chemistry in Li-excess O2-type layered oxide cathode via chemical ion-exchange strategy. Energy Storage Materials, 2021, 38, 1-8.	18.0	46
8	Sustainable Lithium-Metal Battery Achieved by a Safe Electrolyte Based on Recyclable and Low-Cost Molecular Sieve. Angewandte Chemie - International Edition, 2021, 60, 15572-15581.	13.8	43
9	Reversible anionic redox chemistry in layered $\text{Li}_{4/7}\text{Mn}_{6/7}\text{O}_2$ enabled by stable Li-O-vacancy configuration. Joule, 2022, 6, 1290-1303.	24.0	41
10	Elucidating Anionic Redox Chemistry in P3 Layered Cathode for Na-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 38249-38255.	8.0	30
11	Identifying Anionic Redox Activity within the Related O3- and P2-Type Cathodes for Sodium-Ion Battery. ACS Applied Materials & Interfaces, 2020, 12, 851-857.	8.0	28
12	Developing a Polysulfide Phobic Strategy to Restrain Shuttle Effect in Lithium Sulfur Batteries. Angewandte Chemie, 2019, 131, 11900-11904.	2.0	24
13	Triggering and Stabilizing Oxygen Redox Chemistry in Layered $\text{Li}[\text{Na}_{1/3}\text{Ru}_{2/3}\text{O}_2]$ Enabled by Stable Li-O-Na Configuration. ACS Energy Letters, 2022, 7, 2349-2356.	17.4	18
14	Structure design enables stable anionic and cationic redox chemistry in a T2-type Li-excess layered oxide cathode. Science Bulletin, 2022, 67, 381-388.	9.0	13
15	A high-capacity cathode for rechargeable K-metal battery based on reversible superoxide-peroxide conversion. National Science Review, 2021, 8, nwaa287.	9.5	12
16	Sustainable Lithium-Metal Battery Achieved by a Safe Electrolyte Based on Recyclable and Low-Cost Molecular Sieve. Angewandte Chemie, 2021, 133, 15700-15709.	2.0	2
17	Advanced single-crystal layered Ni-rich cathode materials for next-generation high-energy-density and long-life Li-ion batteries. Physical Review Materials, 2022, 6, .	2.4	2