

Sung-Kyun Jung

List of Publications by Year in descending order

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papers

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citing authors

#	ARTICLE	IF	CITATIONS
1	Unveiling the Role of Transition Metal Ions in the Thermal Degradation of Layered Ni-Co-Mn Cathodes for Lithium Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	21
2	Highly Stable Fe ²⁺ /Ti ³⁺ -Based Fluoride Cathode Enabling Low-Cost and High-Performance Na-Ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	11
3	Pliable Lithium Superionic Conductor for All-Solid-State Batteries. <i>ACS Energy Letters</i> , 2021, 6, 2006-2015.	17.4	46
4	Nanoscale Phenomena in Lithium-Ion Batteries. <i>Chemical Reviews</i> , 2020, 120, 6684-6737.	47.7	142
5	High-Voltage-Driven Surface Structuring and Electrochemical Stabilization of Ni-Rich Layered Cathode Materials for Li Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000521.	19.5	90
6	Voltage decay and redox asymmetry mitigation by reversible cation migration in lithium-rich layered oxide electrodes. <i>Nature Materials</i> , 2020, 19, 419-427.	27.5	328
7	A new lithium diffusion model in layered oxides based on asymmetric but reversible transition metal migration. <i>Energy and Environmental Science</i> , 2020, 13, 1269-1278.	30.8	39
8	Bio-inspired Molecular Redesign of a Multi-redox Catholyte for High-Energy Non-aqueous Organic Redox Flow Batteries. <i>CheM</i> , 2019, 5, 2642-2656.	11.7	61
9	Charge-transfer complexes for high-power organic rechargeable batteries. <i>Energy Storage Materials</i> , 2019, 20, 462-469.	18.0	70
10	In operando formation of new iron-oxyfluoride host structure for Na-ion storage from NaF-FeO nanocomposite. <i>Energy Storage Materials</i> , 2019, 23, 427-433.	18.0	8
11	Chemical Origins of Electrochemical Overpotential in Surface Conversion Nanocomposite Cathodes. <i>Advanced Energy Materials</i> , 2019, 9, 1900503.	19.5	6
12	Understanding the effects of chemical reactions at the cathode-electrolyte interface in sulfide based all-solid-state batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22967-22976.	10.3	80
13	Unveiling the Intrinsic Cycle Reversibility of a LiCoO ₂ Electrode at 4.8-V Cutoff Voltage through Subtractive Surface Modification for Lithium-Ion Batteries. <i>Nano Letters</i> , 2019, 19, 29-37.	9.1	78
14	New Iron-Based Intercalation Host for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2018, 30, 1956-1964.	6.7	20
15	Suppression of Voltage Decay through Manganese Deactivation and Nickel Redox Buffering in High-Energy Layered Lithium-Rich Electrodes. <i>Advanced Energy Materials</i> , 2018, 8, 1800606.	19.5	97
16	Intrinsic Nanodomains in Triplite LiFeSO ₄ F and Its Implication in Lithium-Ion Diffusion. <i>Advanced Energy Materials</i> , 2018, 8, 1701408.	19.5	16
17	Recent Progress in Organic Electrodes for Li and Na Rechargeable Batteries. <i>Advanced Materials</i> , 2018, 30, e1704682.	21.0	366
18	Multi-redox Molecule for High-Energy Redox Flow Batteries. <i>Joule</i> , 2018, 2, 1771-1782.	24.0	123

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19	Lithium-free transition metal monoxides for positive electrodes in lithium-ion batteries. Nature Energy, 2017, 2, .	39.5	94
20	Simultaneous anionic and cationic redox. Nature Energy, 2017, 2, 912-913.	39.5	21
21	NaFeF ₂ nanocomposite: New type of Na-ion battery cathode material. Nano Research, 2017, 10, 4388-4397.	10.4	17
22	Unexpected discovery of low-cost maricite NaFePO ₄ as a high-performance electrode for Na-ion batteries. Energy and Environmental Science, 2015, 8, 540-545.	30.8	299
23	Review "Lithium-Excess Layered Cathodes for Lithium Rechargeable Batteries. Journal of the Electrochemical Society, 2015, 162, A2447-A2467.	2.9	141
24	Anomalous Jahn-Teller behavior in a manganese-based mixed-phosphate cathode for sodium ion batteries. Energy and Environmental Science, 2015, 8, 3325-3335.	30.8	175
25	Understanding the Degradation Mechanisms of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ Cathode Material in Lithium Ion Batteries. Advanced Energy Materials, 2014, 4, 1300787.	19.5	893
26	High-Performance Hybrid Supercapacitor Based on Graphene-Wrapped Li ₄ Ti ₅ O ₁₂ and Activated Carbon. ChemElectroChem, 2014, 1, 125-130.	3.4	137
27	A new catalyst-embedded hierarchical air electrode for high-performance Li-O ₂ batteries. Energy and Environmental Science, 2013, 6, 3570.	30.8	152