

Sung-Kyun Jung

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

3,535
citations

361296

20
h-index

501076

28
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29
all docs

29
docs citations

29
times ranked

4833
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the Degradation Mechanisms of $\text{LiNi}_{0.5}\text{Co}_{0.2}\text{Mn}_{0.3}\text{O}_2$ Cathode Material in Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1300787.	10.2	893
2	Recent Progress in Organic Electrodes for Li and Na Rechargeable Batteries. <i>Advanced Materials</i> , 2018, 30, e1704682.	11.1	366
3	Voltage decay and redox asymmetry mitigation by reversible cation migration in lithium-rich layered oxide electrodes. <i>Nature Materials</i> , 2020, 19, 419-427.	13.3	328
4	Unexpected discovery of low-cost maricite NaFePO_4 as a high-performance electrode for Na-ion batteries. <i>Energy and Environmental Science</i> , 2015, 8, 540-545.	15.6	299
5	Anomalous Jahn-Teller behavior in a manganese-based mixed-phosphate cathode for sodium ion batteries. <i>Energy and Environmental Science</i> , 2015, 8, 3325-3335.	15.6	175
6	A new catalyst-embedded hierarchical air electrode for high-performance Li-O_2 batteries. <i>Energy and Environmental Science</i> , 2013, 6, 3570.	15.6	152
7	Nanoscale Phenomena in Lithium-Ion Batteries. <i>Chemical Reviews</i> , 2020, 120, 6684-6737.	23.0	142
8	Review of Lithium-Excess Layered Cathodes for Lithium Rechargeable Batteries. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2447-A2467.	1.3	141
9	High-Performance Hybrid Supercapacitor Based on Graphene-Wrapped $\text{Li}_4\text{Ti}_5\text{O}_{12}$ and Activated Carbon. <i>ChemElectroChem</i> , 2014, 1, 125-130.	1.7	137
10	Multi-redox Molecule for High-Energy Redox Flow Batteries. <i>Joule</i> , 2018, 2, 1771-1782.	11.7	123
11	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.	10.2	97
12	Lithium-free transition metal monoxides for positive electrodes in lithium-ion batteries. <i>Nature Energy</i> , 2017, 2, .	19.8	94
13	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.	10.2	90
14	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.	5.2	80
15	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.	4.5	78
16	Charge-transfer complexes for high-power organic rechargeable batteries. <i>Energy Storage Materials</i> , 2019, 20, 462-469.	9.5	70
17	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.	5.8	61
18	Pliable Lithium Superionic Conductor for All-Solid-State Batteries. <i>ACS Energy Letters</i> , 2021, 6, 2006-2015.	8.8	46

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19	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.	15.6	39
20	Simultaneous anionic and cationic redox. <i>Nature Energy</i> , 2017, 2, 912-913.	19.8	21
21	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, .	7.8	21
22	New Iron-Based Intercalation Host for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2018, 30, 1956-1964.	3.2	20
23	Na-FeF ₂ nanocomposite: New type of Na-ion battery cathode material. <i>Nano Research</i> , 2017, 10, 4388-4397.	5.8	17
24	Intrinsic Nanodomains in Triphosphate LiFeSO ₄ F and Its Implication in Lithium-Ion Diffusion. <i>Advanced Energy Materials</i> , 2018, 8, 1701408.	10.2	16
25	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, .	7.8	11
26	In operando formation of new iron-oxyfluoride host structure for Na-ion storage from Na-FeO nanocomposite. <i>Energy Storage Materials</i> , 2019, 23, 427-433.	9.5	8
27	Chemical Origins of Electrochemical Overpotential in Surface Conversion Nanocomposite Cathodes. <i>Advanced Energy Materials</i> , 2019, 9, 1900503.	10.2	6