

Sung-Kyun Jung

List of Publications by Citations

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26
papers

2,417
citations

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h-index

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g-index

29
ext. papers

2,964
ext. citations

24.9
avg, IF

4.96
L-index

#	Paper	IF	Citations
26	Understanding the Degradation Mechanisms of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ Cathode Material in Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2014 , 4, 1300787	21.8	709
25	Recent Progress in Organic Electrodes for Li and Na Rechargeable Batteries. <i>Advanced Materials</i> , 2018 , 30, e1704682	24	246
24	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	35.4	236
23	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	171
22	A new catalyst-embedded hierarchical air electrode for high-performance LiO ₂ batteries. <i>Energy and Environmental Science</i> , 2013 , 6, 3570	35.4	134
21	High-Performance Hybrid Supercapacitor Based on Graphene-Wrapped Li ₄ Ti ₅ O ₁₂ and Activated Carbon. <i>ChemElectroChem</i> , 2014 , 1, 125-130	4.3	127
20	Review Lithium-Excess Layered Cathodes for Lithium Rechargeable Batteries. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A2447-A2467	3.9	121
19	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	35.4	114
18	Multi-redox Molecule for High-Energy Redox Flow Batteries. <i>Joule</i> , 2018 , 2, 1771-1782	27.8	81
17	Lithium-free transition metal monoxides for positive electrodes in lithium-ion batteries. <i>Nature Energy</i> , 2017 , 2,	62.3	72
16	Nanoscale Phenomena in Lithium-Ion Batteries. <i>Chemical Reviews</i> , 2020 , 120, 6684-6737	68.1	67
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	21.8	54
14	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	11.5	44
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	21.8	43
12	Charge-transfer complexes for high-power organic rechargeable batteries. <i>Energy Storage Materials</i> , 2019 , 20, 462-469	19.4	42
11	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	16.2	32
10	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	13	30

9	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	35.4	20
8	New Iron-Based Intercalation Host for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 1956-1964	9.6	13
7	Pliable Lithium Superionic Conductor for All-Solid-State Batteries. <i>ACS Energy Letters</i> , 2021 , 6, 2006-2015	10.1	12
6	NaFeF ₂ nanocomposite: New type of Na-ion battery cathode material. <i>Nano Research</i> , 2017 , 10, 4388-4397	10	11
5	Intrinsic Nanodomains in Triplite LiFeSO ₄ F and Its Implication in Lithium-Ion Diffusion. <i>Advanced Energy Materials</i> , 2018 , 8, 1701408	21.8	10
4	In operando formation of new iron-oxyfluoride host structure for Na-ion storage from NaFeO nanocomposite. <i>Energy Storage Materials</i> , 2019 , 23, 427-433	19.4	4
3	Chemical Origins of Electrochemical Overpotential in Surface-Conversion Nanocomposite Cathodes. <i>Advanced Energy Materials</i> , 2019 , 9, 1900503	21.8	4
2	Unveiling the Role of Transition-Metal Ions in the Thermal Degradation of Layered NiCoMn Cathodes for Lithium Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2022 , 32, 2108790	15.6	3
1	Highly Stable Fe ²⁺ /Ti ³⁺ -Based Fluoride Cathode Enabling Low-Cost and High-Performance Na-Ion Batteries. <i>Advanced Functional Materials</i> , 2201816	15.6	