

Sung-Kyun Jung

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

26

papers

2,417

citations

18

h-index

29

g-index

29

ext. papers

2,964

ext. citations

24.9

avg, IF

4.96

L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 26 | 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 |
| 25 | Pliable Lithium Superionic Conductor for All-Solid-State Batteries. <i>ACS Energy Letters</i> , 2021 , 6, 2006-2015 | 10.1 | 12 |
| 24 | 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 |
| 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 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 |
| 21 | Nanoscale Phenomena in Lithium-Ion Batteries. <i>Chemical Reviews</i> , 2020 , 120, 6684-6737 | 68.1 | 67 |
| 20 | 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 |
| 19 | Charge-transfer complexes for high-power organic rechargeable batteries. <i>Energy Storage Materials</i> , 2019 , 20, 462-469 | 19.4 | 42 |
| 18 | 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 |
| 17 | Chemical Origins of Electrochemical Overpotential in Surface-Conversion Nanocomposite Cathodes. <i>Advanced Energy Materials</i> , 2019 , 9, 1900503 | 21.8 | 4 |
| 16 | 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 |
| 15 | Unveiling the Intrinsic Cycle Reversibility of a LiCoO 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 |
| 14 | New Iron-Based Intercalation Host for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 1956-1964 | 9.6 | 13 |
| 13 | 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 |
| 12 | 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 |
| 11 | Multi-redox Molecule for High-Energy Redox Flow Batteries. <i>Joule</i> , 2018 , 2, 1771-1782 | 27.8 | 81 |
| 10 | Recent Progress in Organic Electrodes for Li and Na Rechargeable Batteries. <i>Advanced Materials</i> , 2018 , 30, e1704682 | 24 | 246 |

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| 9 | Lithium-free transition metal monoxides for positive electrodes in lithium-ion batteries. <i>Nature Energy</i> , 2017 , 2, | 62.3 | 72 |
| 8 | NaFeF ₂ nanocomposite: New type of Na-ion battery cathode material. <i>Nano Research</i> , 2017 , 10, 4388-4397 | 3.9 | 11 |
| 7 | Review Lithium-Excess Layered Cathodes for Lithium Rechargeable Batteries. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A2447-A2467 | 3.9 | 121 |
| 6 | 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 |
| 5 | 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 |
| 4 | 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 |
| 3 | 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 |
| 2 | 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 |
| 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 | |