

Jaekyung Sung

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

2,146
citations

394421

19
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580821

25
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25
docs citations

25
times ranked

2152
citing authors

#	ARTICLE	IF	CITATIONS
1	Integration of Graphite and Silicon Anodes for the Commercialization of High-Energy Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 110-135.	13.8	460
2	Reactive boride infusion stabilizes Ni-rich cathodes for lithium-ion batteries. <i>Nature Energy</i> , 2021, 6, 362-371.	39.5	274
3	A highly stabilized nickel-rich cathode material by nanoscale epitaxy control for high-energy lithium-ion batteries. <i>Energy and Environmental Science</i> , 2018, 11, 1449-1459.	30.8	213
4	Boosting Reaction Homogeneity in High-Energy Lithium-Ion Battery Cathode Materials. <i>Advanced Materials</i> , 2020, 32, e2003040.	21.0	130
5	Replacing conventional battery electrolyte additives with dioxolone derivatives for high-energy-density lithium-ion batteries. <i>Nature Communications</i> , 2021, 12, 838.	12.8	122
6	Calendering-Compatible Macroporous Architecture for Silicon-Graphite Composite toward High-Energy Lithium-Ion Batteries. <i>Advanced Materials</i> , 2020, 32, e2003286.	21.0	111
7	Robust Pitch on Silicon Nanolayer-Embedded Graphite for Suppressing Undesirable Volume Expansion. <i>Advanced Energy Materials</i> , 2019, 9, 1803121.	19.5	107
8	Unveiling Nickel Chemistry in Stabilizing High-Voltage Cobalt-Rich Cathodes for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1907903.	14.9	107
9	Subnano-sized silicon anode via crystal growth inhibition mechanism and its application in a prototype battery pack. <i>Nature Energy</i> , 2021, 6, 1164-1175.	39.5	107
10	Towards maximized volumetric capacity via pore-coordinated design for large-volume-change lithium-ion battery anodes. <i>Nature Communications</i> , 2019, 10, 475.	12.8	79
11	Quantification of Pseudocapacitive Contribution in Nanocage-Shaped Silicon-Carbon Composite Anode. <i>Advanced Energy Materials</i> , 2019, 9, 1803480.	19.5	75
12	Fabrication of Lamellar Nanosphere Structure for Effective Stress-Management in Large-Volume-Variation Anodes of High-Energy Lithium-Ion Batteries. <i>Advanced Materials</i> , 2019, 31, e1900970.	21.0	52
13	Strategic Pore Architecture for Accommodating Volume Change from High Si Content in Lithium-Ion Battery Anodes. <i>Advanced Energy Materials</i> , 2020, 10, 1903400.	19.5	50
14	Gas phase synthesis of amorphous silicon nitride nanoparticles for high-energy LIBs. <i>Energy and Environmental Science</i> , 2020, 13, 1212-1221.	30.8	48
15	Stress Relief Principle of Micron-Sized Anodes with Large Volume Variation for Practical High-Energy Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2004841.	14.9	37
16	Scalable Synthesis of Hollow β -SiC/Si Anodes via Selective Thermal Oxidation for Lithium-Ion Batteries. <i>ACS Nano</i> , 2020, 14, 11548-11557.	14.6	32
17	Lattice-Oxygen-Stabilized Li- and Mn-Rich Cathodes with Sub-Micrometer Particles by Modifying the Excess-Li Distribution. <i>Advanced Materials</i> , 2021, 33, e2100352.	21.0	32
18	Thermally Converted CoO Nanoparticles Embedded into N-Doped Carbon Layers as Highly Efficient Bifunctional Electrocatalysts for Oxygen Reduction and Oxygen Evolution Reactions. <i>ChemCatChem</i> , 2017, 9, 1503-1510.	3.7	31

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19	Graphit- und Silicium-Anoden für Lithiumionen-Hochenergiebatterien. <i>Angewandte Chemie</i> , 2020, 132, 112-138.	2.0	23
20	Recent progress of analysis techniques for silicon-based anode of lithium-ion batteries. <i>Current Opinion in Electrochemistry</i> , 2017, 6, 77-83.	4.8	16
21	Unraveling the Rapid Redox Behavior of Li-Excess 3d-Transition Metal Oxides for High Rate Capability. <i>Advanced Energy Materials</i> , 2020, 10, 1904092.	19.5	14
22	Metal-Ion Chelating Gel Polymer Electrolyte for Ni-Rich Layered Cathode Materials at a High Voltage and an Elevated Temperature. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 9965-9974.	8.0	9
23	Evaluation of the Volumetric Activity of the Air Electrode in a Zinc-Air Battery Using a Nitrogen and Sulfur Co-doped Metal-free Electrocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57064-57070.	8.0	6
24	Highly Densified Fracture-Free Silicon-Based Electrode for High Energy Lithium-Ion Batteries. <i>Batteries and Supercaps</i> , 2022, 5, .	4.7	6