

Myeong Hwan Lee

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

2,112
citations

567281

15
h-index

713466

21
g-index

21
all docs

21
docs citations

21
times ranked

3527
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress in Electrode Materials for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1600943.	19.5	815
2	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
3	Toward a low-cost high-voltage sodium aqueous rechargeable battery. <i>Materials Today</i> , 2019, 29, 26-36.	14.2	156
4	Abnormal self-discharge in lithium-ion batteries. <i>Energy and Environmental Science</i> , 2018, 11, 970-978.	30.8	114
5	Coupling structural evolution and oxygen-redox electrochemistry in layered transition metal oxides. <i>Nature Materials</i> , 2022, 21, 664-672.	27.5	89
6	Controlling Residual Lithium in High-Nickel (>90%) Lithium Layered Oxides for Cathodes in Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18662-18669.	13.8	81
7	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
8	High-Voltage Phosphate Cathodes for Rechargeable Ca-Ion Batteries. <i>ACS Energy Letters</i> , 2020, 5, 3203-3211.	17.4	65
9	Investigation on the interface between $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$ electrolyte and carbon conductive agents in all-solid-state lithium battery. <i>Scientific Reports</i> , 2018, 8, 8066.	3.3	62
10	New 4V-Class and Zero-Strain Cathode Material for Na-Ion Batteries. <i>Chemistry of Materials</i> , 2017, 29, 7826-7832.	6.7	61
11	A tree-like nanoporous WO_3 photoanode with enhanced charge transport efficiency for photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12920-12926.	10.3	60
12	Nanostructured Ti-doped hematite (Fe_2O_3) photoanodes for efficient photoelectrochemical water oxidation. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 17501-17507.	7.1	52
13	A Biodegradable Secondary Battery and its Biodegradation Mechanism for Eco-Friendly Energy Storage Systems. <i>Advanced Materials</i> , 2021, 33, e2004902.	21.0	42
14	Simple and Effective Gas-Phase Doping for Lithium Metal Protection in Lithium Metal Batteries. <i>Chemistry of Materials</i> , 2017, 29, 9182-9191.	6.7	32
15	A theoretical framework for oxygen redox chemistry for sustainable batteries. <i>Nature Sustainability</i> , 2022, 5, 708-716.	23.7	23
16	Highly Durable and Stable Sodium Superoxide in Concentrated Electrolytes for Sodium-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1801760.	19.5	15
17	Activating layered $\text{LiNi}_{0.5}\text{Co}_{0.2}\text{Mn}_{0.3}\text{O}_2$ as a host for Mg intercalation in rechargeable Mg batteries. <i>Materials Research Bulletin</i> , 2017, 96, 524-532.	5.2	14
18	A Hierarchically Organized Photoelectrode Architecture for Highly Efficient CdS/CdSe -Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1300395.	19.5	10

#	ARTICLE	IF	CITATIONS
19	A bifunctional auxiliary electrode for safe lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24807-24813.	10.3	4
20	Controlling Residual Lithium in High-Nickel (>90%) Lithium Layered Oxides for Cathodes in Lithium-ion Batteries. <i>Angewandte Chemie</i> , 2020, 132, 18821-18828.	2.0	2