

# Hyeokjun Park

## 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.

44  
papers

1,532  
citations

21  
h-index

39  
g-index

59  
ext. papers

2,028  
ext. citations

16  
avg, IF

4.89  
L-index

#	Paper	IF	Citations
44	Probing Lithium Metals in Batteries by Advanced Characterization and Analysis Tools. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003039	21.8	17
43	Permselective metal-organic framework gel membrane enables long-life cycling of rechargeable organic batteries. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 77-84	28.7	43
42	A p <i>n</i> junction strategy to design bipolar organic materials for high-energy-density symmetric batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 14485-14494	13	3
41	Liquid-Based Janus Electrolyte for Sustainable Redox Mediation in Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2102096	21.8	2
40	Anionic Redox Activity Regulated by Transition Metal in Lithium-Rich Layered Oxides. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001207	21.8	19
39	Calcium-Ion Batteries: Stable and High-Power Calcium-Ion Batteries Enabled by Calcium Intercalation into Graphite (Adv. Mater. 4/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070029	24	2
38	Anchored Mediator Enabling Shuttle-Free Redox Mediation in Lithium-Oxygen Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 5376-5380	16.4	18
37	Voltage decay and redox asymmetry mitigation by reversible cation migration in lithium-rich layered oxide electrodes. <i>Nature Materials</i> , <b>2020</b> , 19, 419-427	27	171
36	Enhancing the cycle stability of LiO <sub>2</sub> batteries via functionalized carbon nanotube-based electrodes. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 4263-4273	13	9
35	Stable and High-Power Calcium-Ion Batteries Enabled by Calcium Intercalation into Graphite. <i>Advanced Materials</i> , <b>2020</b> , 32, e1904411	24	52
34	Controlling Residual Lithium in High-Nickel (>90 %) Lithium Layered Oxides for Cathodes in Lithium-Ion Batteries. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 18821-18828	3.6	1
33	Controlling Residual Lithium in High-Nickel (>90 %) Lithium Layered Oxides for Cathodes in Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 18662-18669	16.4	34
32	Tailoring Ion-Conducting Interphases on Magnesium Metals for High-Efficiency Rechargeable Magnesium Metal Batteries. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 3733-3740	20.1	9
31	Dual-Functioning Molecular Carrier of Superoxide Radicals for Stable and Efficient Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1904187	21.8	6
30	Anchored Mediator Enabling Shuttle-Free Redox Mediation in Lithium-Oxygen Batteries. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 5414-5418	3.6	9
29	A bifunctional auxiliary electrode for safe lithium metal batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 24807-24813	13	3
28	Bifunctional Oxygen Electrocatalysts for Lithium-Oxygen Batteries. <i>Batteries and Supercaps</i> , <b>2019</b> , 2, 311-325	5.6	18

27	Investigation of LiO <sub>2</sub> Battery Performance Integrated with RuO <sub>2</sub> Inverse Opal Cathodes in DMSO. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 5109-5115	6.1	6
26	Tailoring sodium intercalation in graphite for high energy and power sodium ion batteries. <i>Nature Communications</i> , <b>2019</b> , 10, 2598	17.4	115
25	Direct Observation of Redox Mediator-Assisted Solution-Phase Discharging of Li-O Battery by Liquid-Phase Transmission Electron Microscopy. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 8047-8052	16.4	39
24	Bifunctional Oxygen Electrocatalysts for Lithium-Oxygen Batteries. <i>Batteries and Supercaps</i> , <b>2019</b> , 2, 269-269	5.6	1
23	Redox Mediators: A Solution for Advanced Lithium Oxygen Batteries. <i>Trends in Chemistry</i> , <b>2019</b> , 1, 349-360	6.8	36
22	Toward a low-cost high-voltage sodium aqueous rechargeable battery. <i>Materials Today</i> , <b>2019</b> , 29, 26-36	21.8	101
21	A comparative kinetic study of redox mediators for high-power lithium oxygen batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 6491-6498	13	23
20	Biological Nicotinamide Cofactor as a Redox-Active Motif for Reversible Electrochemical Energy Storage. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 16764-16769	16.4	11
19	Biological Nicotinamide Cofactor as a Redox-Active Motif for Reversible Electrochemical Energy Storage. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 16920-16925	3.6	1
18	Enhancing Bifunctional Catalytic Activity via a Nanostructured La(Sr)Fe(Co)O <sub>3</sub> @Pd Matrix as an Efficient Electrocatalyst for LiO <sub>2</sub> Batteries. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 8633-8640	6.1	5
17	Biological Redox Mediation in Electron Transport Chain of Bacteria for Oxygen Reduction Reaction Catalysts in Lithium Oxygen Batteries. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1805623	15.6	34
16	Abnormal self-discharge in lithium-ion batteries. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 970-978	35.4	57
15	Enhanced Stability of Coated Carbon Electrode for Li-O <sub>2</sub> Batteries and Its Limitations. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702661	21.8	49
14	Suppression of Voltage Decay through Manganese Deactivation and Nickel Redox Buffering in High-Energy Layered Lithium-Rich Electrodes. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800606	21.8	54
13	Anisotropic Surface Modulation of Pt Catalysts for Highly Reversible LiO <sub>2</sub> Batteries: High Index Facet as a Critical Descriptor. <i>ACS Catalysis</i> , <b>2018</b> , 8, 9006-9015	13.1	41
12	Roll-to-Roll Laser-Printed Graphene-Graphitic Carbon Electrodes for High-Performance Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 1033-1038	9.5	21
11	Highly Durable and Stable Sodium Superoxide in Concentrated Electrolytes for Sodium Oxygen Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801760	21.8	8
10	Enhancement of Oxygen Reduction Reaction Catalytic Activity via the Modified Surface of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3</sub> with Palladium Nanoparticles as Cathode for Lithium Air Battery. <i>ACS Applied Energy Materials</i> , <b>2018</b> ,	6.1	9

9	Reaction chemistry in rechargeable Li-O batteries. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 2873-2888	58.5	234
8	High-efficiency and high-power rechargeable lithium-sulfur dioxide batteries exploiting conventional carbonate-based electrolytes. <i>Nature Communications</i> , <b>2017</b> , 8, 14989	17.4	31
7	Simple and Effective Gas-Phase Doping for Lithium Metal Protection in Lithium Metal Batteries. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 9182-9191	9.6	25
6	Tuning the Carbon Crystallinity for Highly Stable LiO <sub>2</sub> Batteries. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 8160-8169	16.9	40
5	Dissolution and ionization of sodium superoxide in sodium-oxygen batteries. <i>Nature Communications</i> , <b>2016</b> , 7, 10670	17.4	114
4	A New Perspective on Li-SO <sub>2</sub> Batteries for Rechargeable Systems. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 9663-7	16.4	29
3	A New Perspective on LiSO <sub>2</sub> Batteries for Rechargeable Systems. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 9799-9803	3.6	9
2	Rücktitelbild: A New Perspective on LiSO <sub>2</sub> Batteries for Rechargeable Systems (Angew. Chem. 33/2015). <i>Angewandte Chemie</i> , <b>2015</b> , 127, 9860-9860	3.6	
1	High-Dielectric Polymer Coating for Uniform Lithium Deposition in Anode-Free Lithium Batteries. <i>ACS Energy Letters</i> , 4416-4425	20.1	6