

Hyeokjun Park

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8792971/hyeokjun-park-publications-by-citations.pdf>

Version: 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Reaction chemistry in rechargeable Li-O batteries. <i>Chemical Society Reviews</i> , 2017 , 46, 2873-2888	58.5	234
43	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
42	Tailoring sodium intercalation in graphite for high energy and power sodium ion batteries. <i>Nature Communications</i> , 2019 , 10, 2598	17.4	115
41	Dissolution and ionization of sodium superoxide in sodium-oxygen batteries. <i>Nature Communications</i> , 2016 , 7, 10670	17.4	114
40	Toward a low-cost high-voltage sodium aqueous rechargeable battery. <i>Materials Today</i> , 2019 , 29, 26-36	21.8	101
39	Abnormal self-discharge in lithium-ion batteries. <i>Energy and Environmental Science</i> , 2018 , 11, 970-978	35.4	57
38	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
37	Stable and High-Power Calcium-Ion Batteries Enabled by Calcium Intercalation into Graphite. <i>Advanced Materials</i> , 2020 , 32, e1904411	24	52
36	Enhanced Stability of Coated Carbon Electrode for Li-O ₂ Batteries and Its Limitations. <i>Advanced Energy Materials</i> , 2018 , 8, 1702661	21.8	49
35	Permselective metal-organic framework gel membrane enables long-life cycling of rechargeable organic batteries. <i>Nature Nanotechnology</i> , 2021 , 16, 77-84	28.7	43
34	Anisotropic Surface Modulation of Pt Catalysts for Highly Reversible LiO ₂ Batteries: High Index Facet as a Critical Descriptor. <i>ACS Catalysis</i> , 2018 , 8, 9006-9015	13.1	41
33	Tuning the Carbon Crystallinity for Highly Stable LiO ₂ Batteries. <i>Chemistry of Materials</i> , 2016 , 28, 8160-8169	16.9	40
32	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> , 2019 , 141, 8047-8052	16.4	39
31	Redox Mediators: A Solution for Advanced Lithium-Oxygen Batteries. <i>Trends in Chemistry</i> , 2019 , 1, 349-360	10.8	36
30	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	16.4	34
29	Biological Redox Mediation in Electron Transport Chain of Bacteria for Oxygen Reduction Reaction Catalysts in Lithium-Oxygen Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1805623	15.6	34
28	High-efficiency and high-power rechargeable lithium-sulfur dioxide batteries exploiting conventional carbonate-based electrolytes. <i>Nature Communications</i> , 2017 , 8, 14989	17.4	31

27	A New Perspective on Li-SO ₂ Batteries for Rechargeable Systems. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9663-7	16.4	29
26	Simple and Effective Gas-Phase Doping for Lithium Metal Protection in Lithium Metal Batteries. <i>Chemistry of Materials</i> , 2017 , 29, 9182-9191	9.6	25
25	A comparative kinetic study of redox mediators for high-power lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6491-6498	13	23
24	Roll-to-Roll Laser-Printed Graphene-Graphitic Carbon Electrodes for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1033-1038	9.5	21
23	Anionic Redox Activity Regulated by Transition Metal in Lithium-Rich Layered Oxides. <i>Advanced Energy Materials</i> , 2020 , 10, 2001207	21.8	19
22	Bifunctional Oxygen Electrocatalysts for Lithium-Oxygen Batteries. <i>Batteries and Supercaps</i> , 2019 , 2, 311-325	5.6	18
21	Anchored Mediator Enabling Shuttle-Free Redox Mediation in Lithium-Oxygen Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5376-5380	16.4	18
20	Probing Lithium Metals in Batteries by Advanced Characterization and Analysis Tools. <i>Advanced Energy Materials</i> , 2021 , 11, 2003039	21.8	17
19	Biological Nicotinamide Cofactor as a Redox-Active Motif for Reversible Electrochemical Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16764-16769	16.4	11
18	A New Perspective on Li-SO ₂ Batteries for Rechargeable Systems. <i>Angewandte Chemie</i> , 2015 , 127, 9799-9803	9.6	9
17	Enhancing the cycle stability of Li-O ₂ batteries via functionalized carbon nanotube-based electrodes. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4263-4273	13	9
16	Tailoring Ion-Conducting Interphases on Magnesium Metals for High-Efficiency Rechargeable Magnesium Metal Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 3733-3740	20.1	9
15	Enhancement of Oxygen Reduction Reaction Catalytic Activity via the Modified Surface of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ with Palladium Nanoparticles as Cathode for Lithium-Air Battery. <i>ACS Applied Energy Materials</i> , 2018 ,	6.1	9
14	Anchored Mediator Enabling Shuttle-Free Redox Mediation in Lithium-Oxygen Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 5414-5418	3.6	9
13	Highly Durable and Stable Sodium Superoxide in Concentrated Electrolytes for Sodium-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1801760	21.8	8
12	Investigation of Li-O ₂ Battery Performance Integrated with RuO ₂ Inverse Opal Cathodes in DMSO. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5109-5115	6.1	6
11	High-Dielectric Polymer Coating for Uniform Lithium Deposition in Anode-Free Lithium Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 4416-4425	20.1	6
10	Dual-Functioning Molecular Carrier of Superoxide Radicals for Stable and Efficient Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 1904187	21.8	6

9	Enhancing Bifunctional Catalytic Activity via a Nanostructured La(Sr)Fe(Co)O ₃ @Pd Matrix as an Efficient Electrocatalyst for LiO ₂ Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8633-8640	6.1	5
8	A bifunctional auxiliary electrode for safe lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24807-24813	13	3
7	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> , 2021 , 9, 14485-14494	13	3
6	Calcium-Ion Batteries: Stable and High-Power Calcium-Ion Batteries Enabled by Calcium Intercalation into Graphite (Adv. Mater. 4/2020). <i>Advanced Materials</i> , 2020 , 32, 2070029	24	2
5	Liquid-Based Janus Electrolyte for Sustainable Redox Mediation in Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2102096	21.8	2
4	Bifunctional Oxygen Electrocatalysts for Lithium-Oxygen Batteries. <i>Batteries and Supercaps</i> , 2019 , 2, 269-269	5.6	1
3	Biological Nicotinamide Cofactor as a Redox-Active Motif for Reversible Electrochemical Energy Storage. <i>Angewandte Chemie</i> , 2019 , 131, 16920-16925	3.6	1
2	Controlling Residual Lithium in High-Nickel (>90 %) Lithium Layered Oxides for Cathodes in Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 18821-18828	3.6	1
1	Reaktitelbild: A New Perspective on LiBO ₂ Batteries for Rechargeable Systems (Angew. Chem. 33/2015). <i>Angewandte Chemie</i> , 2015 , 127, 9860-9860	3.6	