Hye Ryung Byon

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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.

43
papers

1,955
citations

19
h-index
g-index

49
ext. papers

2,399
ext. citations

13.1
avg, IF

L-index

#	Paper	IF	Citations
43	Promoting formation of noncrystalline Li2O2 in the Li-O2 battery with RuO2 nanoparticles. <i>Nano Letters</i> , 2013 , 13, 4679-84	11.5	392
42	A chemistry and material perspective on lithium redox flow batteries towards high-density electrical energy storage. <i>Chemical Society Reviews</i> , 2015 , 44, 7968-96	58.5	322
41	Brush-Like Cobalt Nitride Anchored Carbon Nanofiber Membrane: Current Collector-Catalyst Integrated Cathode for Long Cycle Li-O Batteries. <i>ACS Nano</i> , 2018 , 12, 128-139	16.7	175
40	Unexpected Li2O2 Film Growth on Carbon Nanotube Electrodes with CeO2 Nanoparticles in Li-O2 Batteries. <i>Nano Letters</i> , 2016 , 16, 2969-74	11.5	121
39	In situ AFM imaging of Li-O2 electrochemical reaction on highly oriented pyrolytic graphite with ether-based electrolyte. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10870-6	16.4	93
38	Nanoporous NiO Plates with a Unique Role for Promoted Oxidation of Carbonate and Carboxylate Species in the LiD2 Battery. <i>Chemistry of Materials</i> , 2015 , 27, 2234-2241	9.6	88
37	Aqueous organic redox flow batteries. <i>Nano Research</i> , 2019 , 12, 1988-2001	10	66
36	Critically Examining the Role of Nanocatalysts in LiD2 Batteries: Viability toward Suppression of Recharge Overpotential, Rechargeability, and Cyclability. <i>ACS Energy Letters</i> , 2018 , 3, 592-597	20.1	65
35	Structurally Tuning Li2O2 by Controlling the Surface Properties of Carbon Electrodes: Implications for LiD2 Batteries. <i>Chemistry of Materials</i> , 2016 , 28, 8006-8015	9.6	65
34	A structured three-dimensional polymer electrolyte with enlarged active reaction zone for Li-O2 batteries. <i>Scientific Reports</i> , 2014 , 4, 7127	4.9	52
33	Nanostructuring one-dimensional and amorphous lithium peroxide for high round-trip efficiency in lithium-oxygen batteries. <i>Nature Communications</i> , 2018 , 9, 680	17.4	50
32	A dendrite- and oxygen-proof protective layer for lithium metal in lithiumBxygen batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3857-3862	13	48
31	Determining the Facile Routes for Oxygen Evolution Reaction by In Situ Probing of Li-O Cells with Conformal LiO Films. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6190-6193	16.4	48
30	Lithium-Air Batteries: Air-Breathing Challenges and Perspective. ACS Nano, 2020, 14, 14549-14578	16.7	41
29	High Energy Efficiency and Stability for Photoassisted Aqueous Lithium l bdine Redox Batteries. <i>ACS Energy Letters</i> , 2016 , 1, 806-813	20.1	35
28	Mutual Conservation of Redox Mediator and Singlet Oxygen Quencher in Lithium Dxygen Batteries. ACS Catalysis, 2019 , 9, 9914-9922	13.1	28
27	Effects of Zn2+ and H+ Association with Naphthalene Diimide Electrodes for Aqueous Zn-Ion Batteries. <i>Chemistry of Materials</i> , 2020 , 32, 6990-6997	9.6	27

(2021-2018)

26	Designing Redox-Stable Cobalt P olypyridyl Complexes for Redox Flow Batteries: Spin-Crossover Delocalizes Excess Charge. <i>Advanced Energy Materials</i> , 2018 , 8, 1702897	21.8	26	
25	Charge Compensation Mechanism of Lithium-Excess Metal Oxides with Different Covalent and Ionic Characters Revealed by Operando Soft and Hard X-ray Absorption Spectroscopy. <i>Chemistry of Materials</i> , 2020 , 32, 139-147	9.6	21	
24	Mechanistic Study Revealing the Role of the Br3/Br2 Redox Couple in CO2-Assisted LiD2 Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 1903486	21.8	19	
23	Oxidation Stability of Organic Redox Mediators as Mobile Catalysts in Lithium Dxygen Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 2122-2129	20.1	18	
22	Thiazole-Linked Covalent Organic Framework Promoting Fast Two-Electron Transfer for Lithium-Organic Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2003735	21.8	17	
21	Synthesis of Redox-Active Phenanthrene-Fused Heteroarenes by Palladium-Catalyzed C-H Annulation. <i>Organic Letters</i> , 2020 , 22, 1280-1285	6.2	15	
20	Naphthalene diimide as a two-electron anolyte for aqueous and neutral pH redox flow batteries. Journal of Materials Chemistry A, 2020 , 8, 11218-11223	13	14	
19	One-pot production of ceria nanosheet-supported PtNi alloy nanodendrites with high catalytic performance toward methanol oxidation and oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25842-25849	13	13	
18	Nanostructured LiMnO with LiPO Integrated at the Atomic Scale for High-Energy Electrode Materials with Reversible Anionic Redox. <i>ACS Central Science</i> , 2020 , 6, 2326-2338	16.8	12	
17	Advances in electrochemical energy storage with covalent organic frameworks. <i>Materials Advances</i> ,	3.3	12	
16	Reducing Time to Discovery: Materials and Molecular Modeling, Imaging, Informatics, and Integration. <i>ACS Nano</i> , 2021 , 15, 3971-3995	16.7	11	
15	Trapping of Stable [4n+1] Œlectron Species from Peripherally Substituted, Conformationally Rigid, Antiaromatic Hexaphyrins. <i>Chemistry - A European Journal</i> , 2019 , 25, 3525-3531	4.8	8	
14	Solid Electrolyte Interphase Revealing Interfacial Electrochemistry on Highly Oriented Pyrolytic Graphite in a Water-in-Salt Electrolyte. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 20135-20142	3.8	7	
13	Instability of a Noncrystalline NaO2 Film in NaD2 Batteries: The Controversial Effect of the RuO2 Catalyst. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 19678-19686	3.8	6	
12	Singlet Oxygen in Lithium Dxygen Batteries. Batteries and Supercaps, 2021, 4, 286-293	5.6	6	
11	Triple Hierarchical Porous Carbon Spheres as Effective Cathodes for LiD2 Batteries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A455-A463	3.9	5	
10	Promoting lithium electrodeposition towards the bottom of 3-D copper meshes in lithium-based batteries. <i>Journal of Power Sources</i> , 2020 , 472, 228495	8.9	5	
9	Nanometer-Scale Surface Roughness of a 3-D Cu Substrate Promoting Li Nucleation in Li-Metal Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2644-2651	6.1	5	

8	Understanding the interfacial reactions of LiCoO2 positive electrodes in aqueous lithium-ion batteries. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 3657-3663	7.8	4
7	Sodium fluoride-rich solid electrolyte interphase for sodiumEnetal and sodiumExygen batteries. <i>Bulletin of the Korean Chemical Society,</i> 2021 , 42, 1519	1.2	3
6	Systematic Designs of Dicationic Heteroarylpyridiniums as Negolytes for Nonaqueous Redox Flow Batteries. <i>ACS Energy Letters</i> , 2021 , 6, 3390-3397	20.1	3
5	Coverage of capping ligands determining the selectivity of multi-carbon products and morphological evolution of Cu nanocatalysts in electrochemical reduction of CO2. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11210-11218	13	2
4	Machine learning assisted synthesis of lithium-ion batteries cathode materials. <i>Nano Energy</i> , 2022 , 98, 107214	17.1	2
3	Tubular MoSSe/carbon nanotube electrodes for hybrid-ion capacitors. <i>Electrochimica Acta</i> , 2021 , 374, 137971	6.7	1
2	Lithium Oxygen Battery 2019 , 1-23		
1	Unveiling the Underlying Mechanism of CO2-Assisted LiD2 Batteries in the Presence of a Br3 /Br2 Redox Couple. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-01, 442-442	O	