

Lei Qin

List of Publications by Year in descending order

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1,917
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236925

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41
times ranked

2554
citing authors

#	ARTICLE	IF	CITATIONS
1	Localized High-Concentration Electrolytes Boost Potassium Storage in High-Loading Graphite. <i>Advanced Energy Materials</i> , 2019, 9, 1902618.	19.5	153
2	Unveiling the Unique Phase Transformation Behavior and Sodiation Kinetics of 1D van der Waals Sb ₂ S ₃ Anodes for Sodium Ion Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1602149.	19.5	152
3	Ethers Illuminate Sodium-Based Battery Chemistry: Uniqueness, Surprise, and Challenges. <i>Advanced Energy Materials</i> , 2018, 8, 1801361.	19.5	149
4	Unveiling the influence of electrode/electrolyte interface on the capacity fading for typical graphite-based potassium-ion batteries. <i>Energy Storage Materials</i> , 2020, 24, 319-328.	18.0	140
5	Capillary Encapsulation of Metallic Potassium in Aligned Carbon Nanotubes for Use as Stable Potassium Metal Anodes. <i>Advanced Energy Materials</i> , 2019, 9, 1901427.	19.5	118
6	Sb-doped SnO ₂ /graphene-CNT aerogels for high performance Li-ion and Na-ion battery anodes. <i>Energy Storage Materials</i> , 2017, 9, 85-95.	18.0	85
7	Rational Assembly of Hollow Microporous Carbon Spheres as P Hosts for Long-Life Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1702267.	19.5	85
8	Positive role of oxygen vacancy in electrochemical performance of CoMn ₂ O ₄ cathodes for Li-O ₂ batteries. <i>Journal of Power Sources</i> , 2017, 365, 134-147.	7.8	84
9	Artificial Solid-Electrolyte Interphase Enabled High-Capacity and Stable Cycling Potassium Metal Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1902697.	19.5	81
10	Exploring Stability of Nonaqueous Electrolytes for Potassium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018, 1, 1828-1833.	5.1	78
11	Dendrite-Free Potassium-Oxygen Battery Based on a Liquid Alloy Anode. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31871-31878.	8.0	72
12	Mildly-expanded graphite with adjustable interlayer distance as high-performance anode for potassium-ion batteries. <i>Carbon</i> , 2021, 172, 200-206.	10.3	63
13	Superoxide-Based O ₂ Batteries: Highly Reversible Oxygen Redox Solves Challenges in Air Electrodes. <i>Journal of the American Chemical Society</i> , 2020, 142, 11629-11640.	13.7	49
14	Anomalous Enhancement of Li ₂ O ₂ Battery Performance with Li ₂ O ₂ Films Assisted by NiFeO _x Nanofiber Catalysts: Insights into Morphology Control. <i>Advanced Functional Materials</i> , 2016, 26, 8290-8299.	14.9	47
15	Room-temperature liquid metal-based anodes for high-energy potassium-based electrochemical devices. <i>Chemical Communications</i> , 2018, 54, 8032-8035.	4.1	47
16	Oxygen-enriched carbon nanotubes as a bifunctional catalyst promote the oxygen reduction/evolution reactions in Li-O ₂ batteries. <i>Carbon</i> , 2019, 141, 561-567.	10.3	45
17	Porous RuO ₂ nanosheet/CNT electrodes for DMSO-based Li-O ₂ and Li ion O ₂ batteries. <i>Energy Storage Materials</i> , 2017, 8, 110-118.	18.0	36
18	A high-performance lithium ion oxygen battery consisting of Li ₂ O ₂ cathode and lithiated aluminum anode with nafion membrane for reduced O ₂ crossover. <i>Nano Energy</i> , 2017, 40, 258-263.	16.0	35

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19	Correlation between Microstructure and Potassium Storage Behavior in Reduced Graphene Oxide Materials. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45578-45585.	8.0	34
20	From O_2 to Air Batteries: Realizing Superoxide Batteries on the Basis of Dry Ambient Air. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10498-10501.	13.8	33
21	Optimal storage rack design for a multi-deep compact AS/RS considering the acceleration/deceleration of the storage and retrieval machine. <i>International Journal of Production Research</i> , 2015, 53, 929-943.	7.5	32
22	Building a Reactive Armor Using S-Doped Graphene for Protecting Potassium Metal Anodes from Oxygen Crossover in O_2 Batteries. <i>ACS Energy Letters</i> , 2020, 5, 1788-1793.	17.4	32
23	Pursuing graphite-based K-ion O_2 batteries: a lesson from Li-ion batteries. <i>Energy and Environmental Science</i> , 2020, 13, 3656-3662.	30.8	31
24	Achieving Low Overpotential Lithium O_2 Batteries by Exploiting a New Electrolyte Based on $\text{N,N,N',N'-tetraethyl-2,2,6,6-tetramethylpiperidine-1-oxide}$. <i>ACS Energy Letters</i> , 2017, 2, 313-318.	17.4	30
25	Molecular Sieve Induced Solution Growth of Li_2O_2 in the Li-O_2 Battery with Largely Enhanced Discharge Capacity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7989-7995.	8.0	28
26	Highly conductive porous graphene/sulfur composite ribbon electrodes for flexible lithium S batteries. <i>Nanoscale</i> , 2018, 10, 21132-21141.	5.6	27
27	Phase Transfer M -Mediated Degradation of Ether B -Based Localized High C -Concentration Electrolytes in Alkali Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	21
28	Dense graphene monolith oxygen cathodes for ultrahigh volumetric energy densities. <i>Energy Storage Materials</i> , 2017, 9, 134-139.	18.0	19
29	K_3SbS_4 as a Potassium Superionic Conductor with Low Activation Energy for K-S Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	19
30	A soluble phenolic mediator contributing to enhanced discharge capacity and low charge overpotential for lithium-oxygen batteries. <i>Electrochemistry Communications</i> , 2017, 79, 68-72.	4.7	18
31	Graphene-Directed Formation of a Nitrogen-Doped Porous Carbon Sheet with High Catalytic Performance for the Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13508-13514.	3.1	16
32	Designing Potassium Battery Salts through a Solvent-in-Anion Concept for Concentrated Electrolytes and Mimicking Solvation Structures. <i>Chemistry of Materials</i> , 2020, 32, 10423-10434.	6.7	16
33	Single Potassium-Ion Conducting Polymer Electrolytes: Preparation, Ionic Conductivities, and Electrochemical Stability. <i>ACS Applied Energy Materials</i> , 2021, 4, 4156-4164.	5.1	14
34	From O_2 to Air Batteries: Realizing Superoxide Batteries on the Basis of Dry Ambient Air. <i>Angewandte Chemie</i> , 2020, 132, 10584-10587.	2.0	10
35	From solid carbon sources to carbon nanotubes: a general water-assisted approach. <i>RSC Advances</i> , 2014, 4, 54244-54248.	3.6	4
36	Controllable Electrochemical Fabrication of KO_2 -Decorated Binder-Free Cathodes for Rechargeable Lithium O_2 Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17156-17166.	8.0	4

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37	K_3SbS_4 as a Potassium Superionic Conductor with Low Activation Energy for K ⁺ S Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	4
38	Phase Transfer ⁺ Mediated Degradation of Ether ⁺ Based Localized High ⁺ Concentration Electrolytes in Alkali Metal Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	4
39	Tuning hybrid liquid/solid electrolytes by lowering Li salt concentration for lithium batteries. <i>Chinese Physics B</i> , 2018, 27, 068201.	1.4	0