

Tianyu Lei

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/10891266/tianyu-lei-publications-by-year.pdf>

Version: 2024-04-25

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.

34
papers

2,933
citations

25
h-index

35
g-index

35
ext. papers

3,749
ext. citations

17.3
avg, IF

5.32
L-index

#	Paper	IF	Citations
34	Mapping Techniques for the Design of Lithium-Sulfur Batteries.. <i>Small</i> , 2022 , e2106657	11	3
33	Eliminating anion depletion region and promoting Li ⁺ solvation via anionphilic metal organic framework for dendrite-free lithium deposition. <i>Nano Energy</i> , 2022 , 92, 106708	17.1	5
32	3D Printed LiS Batteries with In Situ Decorated Li ₂ S/C Cathode: Interface Engineering Induced Loading-Insensitivity for Scaled Areal Performance. <i>Advanced Energy Materials</i> , 2021 , 11, 2100420	21.8	11
31	Ferroelectric polarization accelerates lithium-ion diffusion for dendrite-free and highly-practical lithium-metal batteries. <i>Nano Energy</i> , 2021 , 79, 105481	17.1	12
30	An artificial hybrid interphase for an ultrahigh-rate and practical lithium metal anode. <i>Energy and Environmental Science</i> , 2021 , 14, 4115-4124	35.4	94
29	Strong intermolecular polarization to boost polysulfide conversion kinetics for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9771-9779	13	8
28	Ion-Inserted Metal-Organic Frameworks Accelerate the Mass Transfer Kinetics in Lithium-Sulfur Batteries. <i>Small</i> , 2021 , 17, e2104367	11	3
27	Strategies toward High-Loading Lithium-Sulfur Battery. <i>Advanced Energy Materials</i> , 2020 , 10, 2000082	21.8	140
26	Heterostructured NiS/ZnInS Realizing Toroid-like LiO Deposition in Lithium-Oxygen Batteries with Low-Donor-Number Solvents. <i>ACS Nano</i> , 2020 , 14, 3490-3499	16.7	64
25	Genetic engineering of porous sulfur species with molecular target prevents host passivation in lithium sulfur batteries. <i>Energy Storage Materials</i> , 2020 , 26, 65-72	19.4	24
24	Adsorption-Catalysis Design in the Lithium-Sulfur Battery. <i>Advanced Energy Materials</i> , 2020 , 10, 1903008	21.8	154
23	Graphene quantum dots as the nucleation sites and interfacial regulator to suppress lithium dendrites for high-loading lithium-sulfur battery. <i>Nano Energy</i> , 2020 , 68, 104373	17.1	61
22	Optimizing Redox Reactions in Aprotic Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2002180	21.8	45
21	An Upgraded Lithium Ion Battery Based on a Polymeric Separator Incorporated with Anode Active Materials. <i>Advanced Energy Materials</i> , 2019 , 9, 1803627	21.8	31
20	Self-Confined Growth of Ultrathin 2D Nonlayered Wide-Bandgap Semiconductor CuBr Flakes. <i>Advanced Materials</i> , 2019 , 31, e1903580	24	37
19	An Efficient Separator with Low Li-Ion Diffusion Energy Barrier Resolving Feeble Conductivity for Practical Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1901800	21.8	33
18	Lithiophilic montmorillonite serves as lithium ion reservoir to facilitate uniform lithium deposition. <i>Nature Communications</i> , 2019 , 10, 4973	17.4	86

17	Carbon Quantum Dots Modified Interfacial Interactions and Ion Conductivity for Enhanced High Current Density Performance in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1802955	21.8	64
16	Modulierung der elektronischen Strukturen anorganischer Nanomaterialien für eine effiziente elektrokatalytische Wasserspaltung. <i>Angewandte Chemie</i> , 2019 , 131, 4532-4551	3.6	27
15	Modulating Electronic Structures of Inorganic Nanomaterials for Efficient Electrocatalytic Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4484-4502	16.4	194
14	TiO ₂ nanowire array as a polar absorber for high-performance lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2018 , 264, 20-25	6.7	38
13	Designing Safe Electrolyte Systems for a High-Stability Lithium-Sulfur Battery. <i>Advanced Energy Materials</i> , 2018 , 8, 1702348	21.8	210
12	A New Hydrophilic Binder Enabling Strongly Anchoring Polysulfides for High-Performance Sulfur Electrodes in Lithium-Sulfur Battery. <i>Advanced Energy Materials</i> , 2018 , 8, 1702889	21.8	194
11	Atomic Interlamellar Ion Path in High Sulfur Content Lithium-Montmorillonite Host Enables High-Rate and Stable Lithium-Sulfur Battery. <i>Advanced Materials</i> , 2018 , 30, e1804084	24	151
10	A New Member of Electrocatalysts Based on Nickel Metaphosphate Nanocrystals for Efficient Water Oxidation. <i>Advanced Materials</i> , 2018 , 30, 1705045	24	117
9	A Nonflammable and Thermotolerant Separator Suppresses Polysulfide Dissolution for Safe and Long-Cycle Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1802441	21.8	97
8	Inhibiting Polysulfide Shuttling with a Graphene Composite Separator for Highly Robust Lithium-Sulfur Batteries. <i>Joule</i> , 2018 , 2, 2091-2104	27.8	226
7	Ferromagnetic-Antiferromagnetic Coupling by Distortion of Fe/Mn Oxygen Octahedrons in (BiFeO ₃) _{1-x} (La _{1-x} Sr _x MnO ₃) Superlattices. <i>Small</i> , 2017 , 13, 1700107	11	6
6	Self-Powered, Flexible, and Solution-Processable Perovskite Photodetector Based on Low-Cost Carbon Cloth. <i>Small</i> , 2017 , 13, 1701042	11	94
5	A Novel Polar Copolymer Design as a Multi-Functional Binder for Strong Affinity of Polysulfides in Lithium-Sulfur Batteries. <i>Nanoscale Research Letters</i> , 2017 , 12, 195	5	26
4	TiO ₂ Feather Duster as Effective Polysulfides Restrictor for Enhanced Electrochemical Kinetics in Lithium-Sulfur Batteries. <i>Small</i> , 2017 , 13, 1701013	11	126
3	Multi-Functional Layered WS ₂ Nanosheets for Enhancing the Performance of Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1601843	21.8	395
2	Electronic and Optoelectronic Applications Based on 2D Novel Anisotropic Transition Metal Dichalcogenides. <i>Advanced Science</i> , 2017 , 4, 1700231	13.6	145
1	In Situ/Operando Raman Techniques in Lithium-Sulfur Batteries. <i>Small Structures</i> , 2100170	8.7	10