

Tianyu Lei

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10891266/publications.pdf>

Version: 2024-02-01

35
papers

4,658
citations

172207

29
h-index

360668

35
g-index

35
all docs

35
docs citations

35
times ranked

5441
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-Functional Layered WS ₂ Nanosheets for Enhancing the Performance of Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1601843.	10.2	472
2	An artificial hybrid interphase for an ultrahigh-rate and practical lithium metal anode. <i>Energy and Environmental Science</i> , 2021, 14, 4115-4124.	15.6	376
3	Inhibiting Polysulfide Shuttling with a Graphene Composite Separator for Highly Robust Lithium-Sulfur Batteries. <i>Joule</i> , 2018, 2, 2091-2104.	11.7	345
4	Modulating Electronic Structures of Inorganic Nanomaterials for Efficient Electrocatalytic Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4484-4502.	7.2	340
5	Adsorption-Catalysis Design in the Lithium-Sulfur Battery. <i>Advanced Energy Materials</i> , 2020, 10, 1903008.	10.2	275
6	Strategies toward High-Loading Lithium-Sulfur Battery. <i>Advanced Energy Materials</i> , 2020, 10, 2000082.	10.2	272
7	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.	10.2	270
8	Designing Safe Electrolyte Systems for a High-Stability Lithium-Sulfur Battery. <i>Advanced Energy Materials</i> , 2018, 8, 1702348.	10.2	266
9	Electronic and Optoelectronic Applications Based on 2D Novel Anisotropic Transition Metal Dichalcogenides. <i>Advanced Science</i> , 2017, 4, 1700231.	5.6	219
10	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.	11.1	201
11	A New Member of Electrocatalysts Based on Nickel Metaphosphate Nanocrystals for Efficient Water Oxidation. <i>Advanced Materials</i> , 2018, 30, 1705045.	11.1	149
12	TiO ₂ Feather Duster as Effective Polysulfides Restrictor for Enhanced Electrochemical Kinetics in Lithium-Sulfur Batteries. <i>Small</i> , 2017, 13, 1701013.	5.2	147
13	Lithiophilic montmorillonite serves as lithium ion reservoir to facilitate uniform lithium deposition. <i>Nature Communications</i> , 2019, 10, 4973.	5.8	144
14	A Nonflammable and Thermotolerant Separator Suppresses Polysulfide Dissolution for Safe and Long-Cycle Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1802441.	10.2	133
15	Self-Powered, Flexible, and Solution-Processable Perovskite Photodetector Based on Low-Cost Carbon Cloth. <i>Small</i> , 2017, 13, 1701042.	5.2	114
16	Heterostructured NiS ₂ /ZnIn ₂ S ₄ Realizing Toroid-like Li ₂ O Deposition in Lithium-Oxygen Batteries with Low-Donor-Number Solvents. <i>ACS Nano</i> , 2020, 14, 3490-3499.	7.3	113
17	Optimizing Redox Reactions in Aprotic Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2002180.	10.2	112
18	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.	10.2	102

#	ARTICLE	IF	CITATIONS
19	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.	8.2	95
20	Self-Confined Growth of Ultrathin 2D Nonlayered Wide-Bandgap Semiconductor CuBr Flakes. <i>Advanced Materials</i> , 2019, 31, e1903580.	11.1	61
21	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.	10.2	61
22	An Upgraded Lithium Ion Battery Based on a Polymeric Separator Incorporated with Anode Active Materials. <i>Advanced Energy Materials</i> , 2019, 9, 1803627.	10.2	53
23	TiO ₂ nanowire array as a polar absorber for high-performance lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2018, 264, 20-25.	2.6	49
24	In-Situ/Operando Raman Techniques in Lithium-Sulfur Batteries. <i>Small Structures</i> , 2022, 3, .	6.9	44
25	3D Printed S 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.	10.2	37
26	Modulierung der elektronischen Strukturen anorganischer Nanomaterialien für eine effiziente elektrokatalytische Wasserspaltung. <i>Angewandte Chemie</i> , 2019, 131, 4532-4551.	1.6	34
27	Ferroelectric polarization accelerates lithium-ion diffusion for dendrite-free and highly-practical lithium-metal batteries. <i>Nano Energy</i> , 2021, 79, 105481.	8.2	32
28	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.	9.5	31
29	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.	3.1	30
30	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.	5.2	21
31	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.	8.2	14
32	Ion-Inserted Metal-Organic Frameworks Accelerate the Mass Transfer Kinetics in Lithium-Sulfur Batteries. <i>Small</i> , 2021, 17, e2104367.	5.2	13
33	Mapping Techniques for the Design of Lithium-Sulfur Batteries. <i>Small</i> , 2022, 18, e2106657.	5.2	13
34	On-chip high-energy interdigital micro-supercapacitors with 3D nanotubular array electrodes. <i>Journal of Materials Chemistry A</i> , 2022, 10, 14051-14059.	5.2	13
35	Ferromagnetic-Antiferromagnetic Coupling by Distortion of Fe/Mn Oxygen Octahedrons in (BiFeO ₃) _m (La _{0.7} Sr _{0.3} MnO ₃) _n Superlattices. <i>Small</i> , 2017, 13, 1700107.	5.2	7