

Yusheng Ye

List of Publications by Year in Descending Order

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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.

60
papers

3,445
citations

36
h-index

58
g-index

64
ext. papers

4,509
ext. citations

16
avg, IF

5.49
L-index

#	Paper	IF	Citations
60	Capturing the swelling of solid-electrolyte interphase in lithium metal batteries.. <i>Science</i> , 2022 , 375, 66-70	39.3	40
59	All-Solid-State Lithium-Sulfur Batteries Enhanced by Redox Mediators. <i>Journal of the American Chemical Society</i> , 2021 , 143, 18188-18195	16.4	16
58	A Designed Lithiophilic Carbon Channel on Separator to Regulate Lithium Deposition Behavior. <i>Small</i> , 2021 , e2104390	11	0
57	Endoplasmic-reticulum-like catalyst coating on separator to enhance polysulfides conversion for lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2021 ,	12	2
56	A Morphologically Stable Li/Electrolyte Interface for All-Solid-State Batteries Enabled by 3D-Micropatterned Garnet. <i>Advanced Materials</i> , 2021 , 33, e2104009	24	15
55	From Flower-Like to Spherical Deposition: A GCNT Aerogel Scaffold for Fast-Charging Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2102454	21.8	2
54	An Antipulverization and High-Continuity Lithium Metal Anode for High-Energy Lithium Batteries. <i>Advanced Materials</i> , 2021 , e2105029	24	2
53	Oxygen-deficient ammonium vanadate for flexible aqueous zinc batteries with high energy density and rate capability at 0 °C. <i>Materials Today</i> , 2021 , 43, 53-61	21.8	13
52	Sensitive, portable heavy-metal-ion detection by the sulfidation method on a superhydrophobic concentrator (SPOT). <i>One Earth</i> , 2021 , 4, 756-766	8.1	0
51	Enhanced Electrochemical Kinetics with Highly Dispersed Conductive and Electrocatalytic Mediators for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2021 , 33, e2100810	24	35
50	Cation-deficient Zn _{0.3} (NH ₄) _{0.3} V ₄ O ₁₀ ·0.91H ₂ O for rechargeable aqueous zinc battery with superior low-temperature performance. <i>Energy Storage Materials</i> , 2021 , 38, 389-396	19.4	23
49	Electrolyte-Resistant Dual Materials for the Synergistic Safety Enhancement of Lithium-Ion Batteries. <i>Nano Letters</i> , 2021 , 21, 2074-2080	11.5	12
48	Dynamic spatial progression of isolated lithium during battery operations.. <i>Nature</i> , 2021 , 600, 659-663	50.4	25
47	Underpotential lithium plating on graphite anodes caused by temperature heterogeneity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 29453-29461	11.5	30
46	Electrode Design with Integration of High Tortuosity and Sulfur-Philicity for High-Performance Lithium-Sulfur Battery. <i>Matter</i> , 2020 , 2, 1605-1620	12.7	48
45	Incorporating the Nanoscale Encapsulation Concept from Liquid Electrolytes into Solid-State Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2020 , 20, 5496-5503	11.5	15
44	Lifting the energy density of lithium ion batteries using graphite film current collectors. <i>Journal of Power Sources</i> , 2020 , 455, 227991	8.9	11

43	Supercooled liquid sulfur maintained in three-dimensional current collector for high-performance Li-S batteries. <i>Science Advances</i> , 2020 , 6, eaay5098	14.3	52
42	A Fireproof, Lightweight, Polymer-Polymer Solid-State Electrolyte for Safe Lithium Batteries. <i>Nano Letters</i> , 2020 , 20, 1686-1692	11.5	77
41	Theoretical Calculation Guided Design of Single-Atom Catalysts toward Fast Kinetic and Long-Life Li-S Batteries. <i>Nano Letters</i> , 2020 , 20, 1252-1261	11.5	194
40	Ultralight and fire-extinguishing current collectors for high-energy and high-safety lithium-ion batteries. <i>Nature Energy</i> , 2020 , 5, 786-793	62.3	63
39	Highly Dispersed Cobalt Clusters in Nitrogen-Doped Porous Carbon Enable Multiple Effects for High-Performance LiS Battery. <i>Advanced Energy Materials</i> , 2020 , 10, 1903550	21.8	114
38	Oxygenated Nitrogen-Doped Microporous Nanocarbon as a Permselective Interlayer for Ultrastable Lithium-Sulfur Batteries. <i>ChemElectroChem</i> , 2019 , 6, 1094-1100	4.3	21
37	A Li ⁺ conductive metal organic framework electrolyte boosts the high-temperature performance of dendrite-free lithium batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9530-9536	13	57
36	Protecting lithium/sodium metal anode with metal-organic framework based compact and robust shield. <i>Nano Energy</i> , 2019 , 60, 866-874	17.1	69
35	Anode Interface Engineering and Architecture Design for High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2019 , 31, e1806532	24	109
34	Boosting High-Rate Li-S Batteries by an MOF-Derived Catalytic Electrode with a Layer-by-Layer Structure. <i>Advanced Science</i> , 2019 , 6, 1802362	13.6	55
33	Habit plane-driven P2-type manganese-based layered oxide as long cycling cathode for Na-ion batteries. <i>Journal of Power Sources</i> , 2018 , 383, 80-86	8.9	25
32	Designing Realizable and Scalable Techniques for Practical Lithium Sulfur Batteries: A Perspective. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1398-1414	6.4	43
31	Strongly Coupled Carbon Nanosheets/Molybdenum Carbide Nanocluster Hollow Nanospheres for High-Performance Aprotic Li-O Battery. <i>Small</i> , 2018 , 14, e1704366	11	28
30	Boosting Fast Sodium Storage of a Large-Scalable Carbon Anode with an Ultralong Cycle Life. <i>Advanced Energy Materials</i> , 2018 , 8, 1703159	21.8	90
29	Conductivity and Pseudocapacitance Optimization of Bimetallic Antimony-Indium Sulfide Anodes for Sodium-Ion Batteries with Favorable Kinetics. <i>Advanced Science</i> , 2018 , 5, 1800613	13.6	39
28	Development and Challenges of Functional Electrolytes for High-Performance LithiumSulfur Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1800919	15.6	98
27	Vitamin K as a high-performance organic anode material for rechargeable potassium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12559-12564	13	62
26	Crumpled Ir Nanosheets Fully Covered on Porous Carbon Nanofibers for Long-Life Rechargeable Lithium-CO Batteries. <i>Advanced Materials</i> , 2018 , 30, e1803124	24	89

25	Flexible, conductive, and highly pressure-sensitive graphene-polyimide foam for pressure sensor application. <i>Composites Science and Technology</i> , 2018 , 164, 187-194	8.6	82
24	Vinyltriethoxysilane as an electrolyte additive to improve the safety of lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5142-5147	13	25
23	Toward Practical High-Energy Batteries: A Modular-Assembled Oval-Like Carbon Microstructure for Thick Sulfur Electrodes. <i>Advanced Materials</i> , 2017 , 29, 1700598	24	82
22	Sulfur Nanodots Stitched in 2D "Bubble-Like" Interconnected Carbon Fabric as Reversibility-Enhanced Cathodes for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2017 , 11, 4694-4702	16.7	62
21	Micrometer-Sized RuO ₂ Catalysts Contributing to Formation of Amorphous Na-Deficient Sodium Peroxide in NaO ₂ Batteries. <i>Advanced Functional Materials</i> , 2017 , 27, 1700632	15.6	24
20	A Praline-Like Flexible Interlayer with Highly Mounted Polysulfide Anchors for Lithium-Sulfur Batteries. <i>Small</i> , 2017 , 13, 1700357	11	33
19	A modularly-assembled interlayer to entrap polysulfides and protect lithium metal anode for high areal capacity lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2017 , 9, 126-133	19.4	40
18	Boron-doped microporous nano carbon as cathode material for high-performance Li-S batteries. <i>Nano Research</i> , 2017 , 10, 426-436	10	37
17	Gluing Carbon Black and Sulfur at Nanoscale: A Polydopamine-Based Nano-Binder for Double-Shelled Sulfur Cathodes. <i>Advanced Energy Materials</i> , 2017 , 7, 1601591	21.8	57
16	Surface Modification of Li-Rich Cathode Materials for Lithium-Ion Batteries with a PEDOT:PSS Conducting Polymer. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23095-104	9.5	91
15	Facile Synthesis of Boron-Doped rGO as Cathode Material for High Energy Li-O ₂ Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23635-45	9.5	65
14	Advanced Lithium-Sulfur Batteries Enabled by a Bio-Inspired Polysulfide Adsorptive Brush. <i>Advanced Functional Materials</i> , 2016 , 26, 8418-8426	15.6	98
13	Chemical Inhibition Method to Synthesize Highly Crystalline Prussian Blue Analogs for Sodium-Ion Battery Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31669-31676	9.5	102
12	Freestanding three-dimensional core-shell nanoarrays for lithium-ion battery anodes. <i>Nature Communications</i> , 2016 , 7, 11774	17.4	124
11	An investigation of functionalized electrolyte using succinonitrile additive for high voltage lithium-ion batteries. <i>Journal of Power Sources</i> , 2016 , 306, 70-77	8.9	91
10	Li-S-Batteries: Advanced Lithium-Sulfur Batteries Enabled by a Bio-Inspired Polysulfide Adsorptive Brush (Adv. Funct. Mater. 46/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 8564-8564	15.6	4
9	Light-weight functional layer on a separator as a polysulfide immobilizer to enhance cycling stability for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17033-17041	13	61
8	Hierarchical mesoporous/macroporous Co ₃ O ₄ ultrathin nanosheets as free-standing catalysts for rechargeable lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17620-17626	13	47

7	Ionic liquid-based electrolyte with binary lithium salts for high performance lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2015 , 296, 10-17	8.9	49
6	Systematic Effect for an Ultralong Cycle Lithium-Sulfur Battery. <i>Nano Letters</i> , 2015 , 15, 7431-9	11.5	98
5	A polypyrrole-supported carbon paper acting as a polysulfide trap for lithium-sulfur batteries. <i>RSC Advances</i> , 2015 , 5, 94479-94485	3.7	18
4	Sulfur cathode based on layered carbon matrix for high-performance Li-S batteries. <i>Nano Energy</i> , 2015 , 12, 742-749	17.1	55
3	An effective approach to protect lithium anode and improve cycle performance for Li-S batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 15542-9	9.5	143
2	Graphene-based three-dimensional hierarchical sandwich-type architecture for high-performance Li/S batteries. <i>Nano Letters</i> , 2013 , 13, 4642-9	11.5	358
1	Scalable, Ultrathin, and High-Temperature-Resistant Solid Polymer Electrolytes for Energy-Dense Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2103720	21.8	14