Shilin Zhang

List of Publications by Year
in descending order

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		159585	168389
55	6,047	30	53
papers	citations	h-index	g-index

55	55	55	4991
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An Inâ€Depth Study of Zn Metal Surface Chemistry for Advanced Aqueous Znâ€Ion Batteries. Advanced Materials, 2020, 32, e2003021.	21.0	707
2	Designing Dendriteâ€Free Zinc Anodes for Advanced Aqueous Zinc Batteries. Advanced Functional Materials, 2020, 30, 2001263.	14.9	598
3	Recent progress on sodium ion batteries: potential high-performance anodes. Energy and Environmental Science, 2018, 11, 2310-2340.	30.8	561
4	Electrolyte Design for In Situ Construction of Highly Zn²⁺â€Conductive Solid Electrolyte Interphase to Enable Highâ€Performance Aqueous Znâ€Ion Batteries under Practical Conditions. Advanced Materials, 2021, 33, e2007416.	21.0	484
5	Graphitic Carbon Nanocage as a Stable and High Power Anode for Potassiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1801149.	19.5	442
6	Bio-inspired design of anin situmultifunctional polymeric solidâ€“electrolyte interphase for Zn metal anode cycling at 30 mA cm^{â^'2}and 30 mA h cm^{â^'2}. Energy and Environmental Science, 2021, 14, 5947-5957.	30.8	289
7	Toward Highâ€Performance Hybrid Znâ€Based Batteries via Deeply Understanding Their Mechanism and Using Electrolyte Additive. Advanced Functional Materials, 2019, 29, 1903605.	14.9	259
8	Yolkâ€“Shell Structured FeP@C Nanoboxes as Advanced Anode Materials for Rechargeable Lithiumâ€/Potassiumâ€Ion Batteries. Advanced Functional Materials, 2019, 29, 1808291.	14.9	232
9	Cathode Materials for Potassium-Ion Batteries: Current Status and Perspective. Electrochemical Energy Reviews, 2018, 1, 625-658.	25.5	201
10	Metal chalcogenides for potassium storage. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 437-465.	17.3	154
11	Liquid metal batteries for future energy storage. Energy and Environmental Science, 2021, 14, 4177-4202.	30.8	149
12	Hollow-Carbon-Templated Few-Layered V₅S₈ Nanosheets Enabling Ultrafast Potassium Storage and Long-Term Cycling. ACS Nano, 2019, 13, 7939-7948.	14.6	136
13	Sulfur-doped mesoporous carbon from surfactant-intercalated layered double hydroxide precursor as high-performance anode nanomaterials for both Li-ion and Na-ion batteries. Carbon, 2015, 93, 143-150.	10.3	135
14	Hierarchically scaffolded CoP/CoP₂ nanoparticles: controllable synthesis and their application as a well-matched bifunctional electrocatalyst for overall water splitting. Nanoscale, 2017, 9, 5677-5685.	5.6	123
15	Biomass-Derived Carbon Materials for High-Performance Supercapacitors: Current Status and Perspective. Electrochemical Energy Reviews, 2021, 4, 219-248.	25.5	118
16	Electrolyte Engineering Enables High Performance Zincâ€Ion Batteries. Small, 2022, 18, e2107033.	10.0	118
17	Toward practical lithium-ion battery recycling: adding value, tackling circularity and recycling-oriented design. Energy and Environmental Science, 2022, 15, 2732-2752.	30.8	110
18	Structural Engineering of Hierarchical Microâ€nanostructured Geâ€“C Framework by Controlling the Nucleation for Ultralongâ€Life Li Storage. Advanced Energy Materials, 2019, 9, 1900081.	19.5	99

#	Article	IF	Citations
19	Challenges and prospects of lithiumâ€“CO₂batteries. , 2022, 1, e9120001.		99
20	Dehydrationâ€Triggered Ionic Channel Engineering in Potassium Niobate for Li/Kâ€Ion Storage. Advanced Materials, 2020, 32, e2000380.	21.0	85
21	Three-Dimensional Porous Cobalt Phosphide Nanocubes Encapsulated in a Graphene Aerogel as an Advanced Anode with High Coulombic Efficiency for High-Energy Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 5373-5379.	8.0	78
22	Rational Design of Coreâ€Shell ZnTe@Nâ€Doped Carbon Nanowires for High Gravimetric and Volumetric Alkali Metal Ion Storage. Advanced Functional Materials, 2021, 31, 2006425.	14.9	75
23	Co@N-CNTs derived from triple-role CoAl-layered double hydroxide as an efficient catalyst for oxygen reduction reaction. Carbon, 2016, 107, 162-170.	10.3	60
24	Defect Engineering in a Multiple Confined Geometry for Robust Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2022, 12, .	19.5	58
25	Crystallographicâ€Siteâ€Specific Structural Engineering Enables Extraordinary Electrochemical Performance of Highâ€Voltage LiNi_{0.5}Mn_{1.5}O₄ Spinel Cathodes for Lithiumâ€Ion Batteries. Advanced Materials, 2021, 33, e2101413.	21.0	52
26	Designing a hybrid electrode toward high energy density with a staged Li ⁺ and PF ₆ ^{â^'} deintercalation/intercalation mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2815-2823.	7.1	50
27	Temperature-gradient induced microstructure evolution in heat-affected zone of electron beam welded Ti-6Al-4V titanium alloy. Journal of Materials Science and Technology, 2019, 35, 1681-1690.	10.7	42
28	Polysulfide Filter and Dendrite Inhibitor: Highly Graphitized Wood Framework Inhibits Polysulfide Shuttle and Lithium Dendrites in Liâ€“S Batteries. Advanced Functional Materials, 2021, 31, 2102458.	14.9	42
29	Ultrathin Fewâ€Layer GeP Nanosheets via Lithiationâ€Assisted Chemical Exfoliation and Their Application in Sodium Storage. Advanced Energy Materials, 2020, 10, 1903826.	19.5	41
30	Porous carbon-based MgAlF5Â·1.5H2O composites derived from carbon-coated clay presenting super high adsorption capacity for Congo Red. Chemical Engineering Journal, 2021, 406, 126784.	12.7	37
31	Accelerated Polysulfide Redox in Binderâ€Free Li₂S Cathodes Promises Highâ€Energyâ€Density Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2100957.	19.5	35
32	Organic electrolyte design for practical potassium-ion batteries. Journal of Materials Chemistry A, 2022, 10, 19090-19106.	10.3	30
33	Strong interplay between dopant and SnO2 in amorphous transparent (Sn, Nb)O2 anode with high conductivity in electrochemical cycling. Journal of Alloys and Compounds, 2018, 735, 2401-2409.	5.5	28
34	Synergistic lithium storage of a multi-component Co2SnO4/Co3O4/Al2O3/C composite from a single-source precursor. RSC Advances, 2015, 5, 69932-69938.	3.6	25
35	Magnetic carbon-coated palygorskite loaded with cobalt nanoparticles for Congo Red removal from waters. Applied Clay Science, 2020, 198, 105856.	5.2	22
36	Biomimetic structure design and construction of cactus-like MoS₂/Bi₁₉Cl₃S₂₇ photocatalysts for efficient hydrogen evolution. Journal of Materials Chemistry A, 2018, 6, 21404-21409.	10.3	21

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37	The unique interconnected structure of hollow carbon skeleton doped by F and N facilitating rapid Li ions diffusion in lithium-sulfur batteries. Carbon, 2022, 195, 207-218.	10.3	21
38	Constructing Layered Nanostructures from Nonâ€Layered Sulfide Crystals via Surface Charge Manipulation Strategy. Advanced Functional Materials, 2021, 31, 2101676.	14.9	20
39	Mineral-modulated Co catalyst with enhanced adsorption and dissociation of BH4â^' for hydrogenation of p-nitrophenol to p-aminophenol. Chemosphere, 2022, 291, 132871.	8.2	19
40	Suppression on allotropic transformation of Sn planar anode with enhanced electrochemical performance. Applied Surface Science, 2018, 435, 1150-1158.	6.1	18
41	Novel layered double hydroxide precursor derived high-Co9S8-content composite as anode for lithium-ion batteries. Journal of Alloys and Compounds, 2018, 768, 485-494.	5.5	18
42	Surface Reconstruction-Associated Partially Amorphized Bismuth Oxychloride for Boosted Photocatalytic Water Oxidation. ACS Applied Materials & Interfaces, 2021, 13, 5088-5098.	8.0	18
43	Encapsulation of BiOCl nanoparticles in N-doped carbon nanotubes as a highly efficient anode for potassium ion batteries. Nanoscale, 2022, 14, 5814-5823.	5.6	18
44	Graphene-supported binary active Mn_{0.25}Co_{0.75}O solid solution derived from a CoMn-layered double hydroxide precursor for highly improved lithium storage. RSC Advances, 2016, 6, 19716-19722.	3.6	16
45	Amorphous carbon shell on Si particles fabricated by carbonizing of polyphosphazene and enhanced performance as lithium ion battery anode. Materials Letters, 2016, 171, 63-67.	2.6	15
46	Hierarchical Porous NiO/Î²â€NiMoO₄ Heterostructure as Superior Anode Material for Lithium Storage. ChemPlusChem, 2018, 83, 915-923.	2.8	15
47	In situ coupling of Ti₂O with rutile TiO₂ as a coreâ€“shell structure and its photocatalysis performance. RSC Advances, 2017, 7, 54662-54667.	3.6	13
48	Nitrogen-doped carbon and high-content alumina containing bi-active cobalt oxides for efficient storage of lithium. Journal of Colloid and Interface Science, 2016, 462, 183-190.	9.4	12
49	Size effect on the electrochemical reaction path and performance of nano size phosphorus rich skutterudite nickle phosphide. Journal of Alloys and Compounds, 2019, 781, 1059-1068.	5.5	11
50	NiS2 nanodots on N,S-doped graphene synthesized via interlayer confinement for enhanced lithium-/sodium-ion storage. Journal of Colloid and Interface Science, 2022, 619, 359-368.	9.4	11
51	Palygorskite modified with N-doped carbon for sensitive determination of lead(II) by differential pulse anodic stripping voltammetry. Mikrochimica Acta, 2019, 186, 706.	5.0	9
52	Heterostructure Manipulation toward Ameliorating Electrodes for Better Lithium Storage Capability. ACS Sustainable Chemistry and Engineering, 2018, 6, 17267-17276.	6.7	7
53	A Novel Calcium Oxalate/Sepiolite Composite for Highly Selective Adsorption of Pb(II) from Aqueous Solutions. Minerals (Basel, Switzerland), 2021, 11, 552.	2.0	6
54	Sb2Se3 nanorods in the confined space of TiO2 nanotube arrays facilitating photoelectrochemical hydrogen evolution. Journal of Alloys and Compounds, 2022, 912, 165201.	5.5	5

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55	An Ion Selective Electrode Based on Ti3C2 Solidâ€state Transduction for Rapid Detection of Lead Ion Concentration in Aqueous Solution. Electroanalysis, 0, , .	2.9	0