Shilin Zhang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3960624/publications.pdf

Version: 2024-02-01

		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	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
2	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
3	Electrolyte Engineering Enables High Performance Zincâ€Ion Batteries. Small, 2022, 18, e2107033.	10.0	118
4	Defect Engineering in a Multiple Confined Geometry for Robust Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2022, 12, .	19.5	58
5	Challenges and prospects of lithiumâ€“CO₂batteries. , 2022, 1, e9120001.		99
6	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
7	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
8	Organic electrolyte design for practical potassium-ion batteries. Journal of Materials Chemistry A, 2022, 10, 19090-19106.	10.3	30
9	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
10	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
11	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
12	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
13	Surface Reconstruction-Associated Partially Amorphized Bismuth Oxychloride for Boosted Photocatalytic Water Oxidation. ACS Applied Materials & Interfaces, 2021, 13, 5088-5098.	8.0	18
14	Liquid metal batteries for future energy storage. Energy and Environmental Science, 2021, 14, 4177-4202.	30.8	149
15	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
16	Biomass-Derived Carbon Materials for High-Performance Supercapacitors: Current Status and Perspective. Electrochemical Energy Reviews, 2021, 4, 219-248.	25.5	118
17	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
18	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

#	Article	IF	Citations
19	Accelerated Polysulfide Redox in Binderâ€Free Li₂S Cathodes Promises Highâ€Energyâ€Density Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2100957.	19.5	35
20	Constructing Layered Nanostructures from Nonâ€Layered Sulfide Crystals via Surface Charge Manipulation Strategy. Advanced Functional Materials, 2021, 31, 2101676.	14.9	20
21	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
22	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
23	Magnetic carbon-coated palygorskite loaded with cobalt nanoparticles for Congo Red removal from waters. Applied Clay Science, 2020, 198, 105856.	5.2	22
24	Designing Dendriteâ€Free Zinc Anodes for Advanced Aqueous Zinc Batteries. Advanced Functional Materials, 2020, 30, 2001263.	14.9	598
25	An Inâ€Depth Study of Zn Metal Surface Chemistry for Advanced Aqueous Znâ€Ion Batteries. Advanced Materials, 2020, 32, e2003021.	21.0	707
26	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
27	Metal chalcogenides for potassium storage. InformaÄ•nÃ-MateriÃ¡ly, 2020, 2, 437-465.	17.3	154
28	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
29	Dehydrationâ€Triggered Ionic Channel Engineering in Potassium Niobate for Li/Kâ€Ion Storage. Advanced Materials, 2020, 32, e2000380.	21.0	85
30	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
31	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
32	Hollow-Carbon-Templated Few-Layered V₅S₈ Nanosheets Enabling Ultrafast Potassium Storage and Long-Term Cycling. ACS Nano, 2019, 13, 7939-7948.	14.6	136
33	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
34	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
35	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
36	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

#	Article	IF	Citations
37	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
38	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
39	Suppression on allotropic transformation of Sn planar anode with enhanced electrochemical performance. Applied Surface Science, 2018, 435, 1150-1158.	6.1	18
40	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
41	Cathode Materials for Potassium-Ion Batteries: Current Status and Perspective. Electrochemical Energy Reviews, 2018, 1, 625-658.	25.5	201
42	Heterostructure Manipulation toward Ameliorating Electrodes for Better Lithium Storage Capability. ACS Sustainable Chemistry and Engineering, 2018, 6, 17267-17276.	6.7	7
43	Hierarchical Porous NiO/Î²â€NiMoO₄ Heterostructure as Superior Anode Material for Lithium Storage. ChemPlusChem, 2018, 83, 915-923.	2.8	15
44	Recent progress on sodium ion batteries: potential high-performance anodes. Energy and Environmental Science, 2018, 11, 2310-2340.	30.8	561
45	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
46	Graphitic Carbon Nanocage as a Stable and High Power Anode for Potassiumâ€ion Batteries. Advanced Energy Materials, 2018, 8, 1801149.	19.5	442
47	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
48	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
49	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
50	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
51	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
52	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
53	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
54	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

#	Article	IF	Citations
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