

Kai Zhang

List of Publications by Year in descending order

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201
papers

17,810
citations

14614

66
h-index

14702

127
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208
all docs

208
docs citations

208
times ranked

15637
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances and Prospects of Cathode Materials for Sodium-Ion Batteries. <i>Advanced Materials</i> , 2015, 27, 5343-5364.	11.1	915
2	Nanostructured Mn-based oxides for electrochemical energy storage and conversion. <i>Chemical Society Reviews</i> , 2015, 44, 699-728.	18.7	740
3	MoS ₂ Nanoflowers with Expanded Interlayers as High-Performance Anodes for Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12794-12798.	7.2	670
4	Pyrite FeS ₂ for high-rate and long-life rechargeable sodium batteries. <i>Energy and Environmental Science</i> , 2015, 8, 1309-1316.	15.6	628
5	FeSe ₂ Microspheres as a High-Performance Anode Material for Na-Ion Batteries. <i>Advanced Materials</i> , 2015, 27, 3305-3309.	11.1	581
6	Urchin-Like CoSe ₂ as a High-Performance Anode Material for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2016, 26, 6728-6735.	7.8	471
7	Recent Developments on and Prospects for Electrode Materials with Hierarchical Structures for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1701415.	10.2	436
8	Modulating electrolyte structure for ultralow temperature aqueous zinc batteries. <i>Nature Communications</i> , 2020, 11, 4463.	5.8	431
9	Advances and Challenges for the Electrochemical Reduction of CO ₂ to CO: From Fundamentals to Industrialization. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20627-20648.	7.2	408
10	Cobalt-Doped FeS ₂ Nanospheres with Complete Solid Solubility as a High-Performance Anode Material for Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12822-12826.	7.2	394
11	Organic Li ₄ C ₈ H ₂ O ₆ Nanosheets for Lithium-Ion Batteries. <i>Nano Letters</i> , 2013, 13, 4404-4409.	4.5	352
12	Na ₃ V ₂ (PO ₄) ₃ @C core-shell nanocomposites for rechargeable sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8668-8675.	5.2	348
13	MoS ₂ Nanoflowers with Expanded Interlayers as High-Performance Anodes for Sodium-Ion Batteries. <i>Angewandte Chemie</i> , 2014, 126, 13008-13012.	1.6	310
14	Recent Developments of the Lithium Metal Anode for Rechargeable Non-Aqueous Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1600811.	10.2	306
15	Cobalt-Doped FeS ₂ Nanospheres with Complete Solid Solubility as a High-Performance Anode Material for Sodium-Ion Batteries. <i>Angewandte Chemie</i> , 2016, 128, 13014-13018.	1.6	268
16	Advanced Nanocellulose-Based Composites for Flexible Functional Energy Storage Devices. <i>Advanced Materials</i> , 2021, 33, e2101368.	11.1	251
17	Structural and chemical synergistic effect of CoS nanoparticles and porous carbon nanorods for high-performance sodium storage. <i>Nano Energy</i> , 2017, 35, 281-289.	8.2	247
18	Thermoresponsive polymers and their biomedical application in tissue engineering – a review. <i>Journal of Materials Chemistry B</i> , 2020, 8, 607-628.	2.9	237

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19	Comprehensive Profiling of Protein Lysine Acetylation in <i>Escherichia coli</i> . <i>Journal of Proteome Research</i> , 2013, 12, 844-851.	1.8	234
20	Porous CuO nanowires as the anode of rechargeable Na-ion batteries. <i>Nano Research</i> , 2014, 7, 199-208.	5.8	233
21	Composite of sulfur impregnated in porous hollow carbon spheres as the cathode of Li-S batteries with high performance. <i>Nano Research</i> , 2013, 6, 38-46.	5.8	232
22	High-Voltage Charging-Induced Strain, Heterogeneity, and Micro-Cracks in Secondary Particles of a Nickel-Rich Layered Cathode Material. <i>Advanced Functional Materials</i> , 2019, 29, 1900247.	7.8	219
23	Antifreezing Hydrogel with High Zinc Reversibility for Flexible and Durable Aqueous Batteries by Cooperative Hydrated Cations. <i>Advanced Functional Materials</i> , 2020, 30, 1907218.	7.8	209
24	Manganese based layered oxides with modulated electronic and thermodynamic properties for sodium ion batteries. <i>Nature Communications</i> , 2019, 10, 5203.	5.8	202
25	Designing Anion-Type Water-Free Zn ²⁺ Solvation Structure for Robust Zn Metal Anode. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23357-23364.	7.2	179
26	Sulfur Nanodots Electrodeposited on Ni Foam as High-Performance Cathode for Li-S Batteries. <i>Nano Letters</i> , 2015, 15, 721-726.	4.5	175
27	Recent breakthroughs and perspectives of high-energy layered oxide cathode materials for lithium ion batteries. <i>Materials Today</i> , 2021, 43, 132-165.	8.3	174
28	Interlayer-Spacing-Regulated VOPO ₄ Nanosheets with Fast Kinetics for High-Capacity and Durable Rechargeable Magnesium Batteries. <i>Advanced Materials</i> , 2018, 30, e1801984.	11.1	171
29	Potassium-Sulfur Batteries: A New Member of Room-Temperature Rechargeable Metal-Sulfur Batteries. <i>Inorganic Chemistry</i> , 2014, 53, 9000-9005.	1.9	163
30	Stable Aqueous Anode-Free Zinc Batteries Enabled by Interfacial Engineering. <i>Advanced Functional Materials</i> , 2021, 31, 2101886.	7.8	162
31	Cellulose Nanopaper: Fabrication, Functionalization, and Applications. <i>Nano-Micro Letters</i> , 2022, 14, 104.	14.4	161
32	High-Performance Organic Lithium Batteries with an Ether-Based Electrolyte and 9,10-Anthraquinone (AQ)/CMK-3 Cathode. <i>Advanced Science</i> , 2015, 2, 1500018.	5.6	155
33	Facile synthesis and electrochemical sodium storage of CoS ₂ micro/nano-structures. <i>Nano Research</i> , 2016, 9, 198-206.	5.8	142
34	Identification and Verification of Lysine Propionylation and Butyrylation in Yeast Core Histones Using PTMap Software. <i>Journal of Proteome Research</i> , 2009, 8, 900-906.	1.8	141
35	A 3D Hydroxylated MXene/Carbon Nanotubes Composite as a Scaffold for Dendrite-Free Sodium-Metal Electrodes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16705-16711.	7.2	138
36	Challenges and advances in wide-temperature rechargeable lithium batteries. <i>Energy and Environmental Science</i> , 2022, 15, 1711-1759.	15.6	138

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37	Nanooctahedra Particles Assembled FeSe ₂ Microspheres Embedded into Sulfur-Doped Reduced Graphene Oxide Sheets As a Promising Anode for Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 13849-13856.	4.0	135
38	Li ₃ V ₂ (PO ₄) ₃ @C core-shell nanocomposite as a superior cathode material for lithium-ion batteries. Nanoscale, 2013, 5, 6485.	2.8	130
39	Designing Hybrid Chiral Photonic Films with Circularly Polarized Room-Temperature Phosphorescence. ACS Nano, 2020, 14, 11130-11139.	7.3	130
40	Bismuth Nanoparticles Embedded in Carbon Spheres as Anode Materials for Sodium/Lithium Ion Batteries. Chemistry - A European Journal, 2016, 22, 2333-2338.	1.7	123
41	Stable organic radical polymers: synthesis and applications. Polymer Chemistry, 2016, 7, 5589-5614.	1.9	123
42	Ultrasmall Li ₂ S Nanoparticles Anchored in Graphene Nanosheets for High-Energy Lithium-Ion Batteries. Scientific Reports, 2014, 4, 6467.	1.6	122
43	Electroless Formation of a Fluorinated Li/Na Hybrid Interphase for Robust Lithium Anodes. Journal of the American Chemical Society, 2021, 143, 2829-2837.	6.6	119
44	High-performance sodium batteries with the 9,10-anthraquinone/CMK-3 cathode and an ether-based electrolyte. Chemical Communications, 2015, 51, 10244-10247.	2.2	117
45	Facile polymer-assisted synthesis of LiNi _{0.5} Mn _{1.5} O ₄ with a hierarchical micro-nano structure and high rate capability. RSC Advances, 2012, 2, 5669.	1.7	111
46	FeS ₂ microspheres with an ether-based electrolyte for high-performance rechargeable lithium batteries. Journal of Materials Chemistry A, 2015, 3, 12898-12904.	5.2	111
47	Construction of a hydrazone-linked chiral covalent organic framework-silica composite as the stationary phase for high performance liquid chromatography. Journal of Chromatography A, 2017, 1519, 100-109.	1.8	110
48	Improved cyclability of lithium-sulfur battery cathode using encapsulated sulfur in hollow carbon nanofiber@nitrogen-doped porous carbon core-shell composite. Carbon, 2014, 78, 1-9.	5.4	108
49	Bifunctional Conducting Polymer Coated CoP Core-Shell Nanowires on Carbon Paper as a Free-Standing Anode for Sodium Ion Batteries. Advanced Energy Materials, 2018, 8, 1800283.	10.2	104
50	Few-layered MoS ₂ /C with expanding d-spacing as a high-performance anode for sodium-ion batteries. Nanoscale, 2017, 9, 12189-12195.	2.8	100
51	Cobalt phosphide nanoparticles embedded in nitrogen-doped carbon nanosheets: Promising anode material with high rate capability and long cycle life for sodium-ion batteries. Nano Research, 2017, 10, 4337-4350.	5.8	97
52	All Carbon Dual Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 35978-35983.	4.0	93
53	A Low-Strain Potassium-Rich Prussian Blue Analogue Cathode for High Power Potassium Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 13050-13056.	7.2	90
54	A simple synthesis of hollow carbon nanofiber-sulfur composite via mixed-solvent process for lithium-sulfur batteries. Journal of Power Sources, 2014, 256, 137-144.	4.0	88

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55	Dialdehyde Cellulose as a Bio-Based Robust Adhesive for Wood Bonding. ACS Sustainable Chemistry and Engineering, 2019, 7, 10452-10459.	3.2	86
56	Advances and Challenges for the Electrochemical Reduction of CO ₂ to CO: From Fundamentals to Industrialization. Angewandte Chemie, 2021, 133, 20795-20816.	1.6	82
57	A Universal Graphene Quantum Dot Tethering Design Strategy to Synthesize Single-Atom Catalysts. Angewandte Chemie - International Edition, 2020, 59, 21885-21889.	7.2	79
58	Inorganic & organic materials for rechargeable Li batteries with multi-electron reaction. Science China Materials, 2014, 57, 42-58.	3.5	78
59	The impact of the molecular weight on the electrochemical properties of poly(TEMPO methacrylate). Polymer Chemistry, 2017, 8, 1815-1823.	1.9	78
60	Electrochemically Derived Graphene-Like Carbon Film as a Superb Substrate for High-Performance Aqueous Zn-Ion Batteries. Advanced Functional Materials, 2020, 30, 1907120.	7.8	78
61	Flower-Like MoSe ₂ /C Composite with Expanded (002) Planes of Few-Layer MoSe ₂ as the Anode for High-Performance Sodium-Ion Batteries. Chemistry - A European Journal, 2017, 23, 14004-14010.	1.7	74
62	Regulating Electrocatalytic Oxygen Reduction Activity of a Metal Coordination Polymer via d- π Conjugation. Angewandte Chemie - International Edition, 2021, 60, 16937-16941.	7.2	74
63	Intergrown Li ₂ FeSiO ₄ -LiFePO ₄ -C nanocomposites as high-capacity cathode materials for lithium-ion batteries. Chemical Communications, 2013, 49, 3040.	2.2	73
64	Insights into the Ionic Conduction Mechanism of Quasi-Solid Polymer Electrolytes through Multispectral Characterization. Angewandte Chemie - International Edition, 2021, 60, 22672-22677.	7.2	72
65	Covalent Organic Frameworks and Their Derivatives for Better Metal Anodes in Rechargeable Batteries. ACS Nano, 2021, 15, 12741-12767.	7.3	71
66	Recent Progress on Cellulose-Based Ionic Compounds for Biomaterials. Advanced Materials, 2021, 33, e2000717.	11.1	70
67	Nitroxide radical polymers for emerging plastic energy storage and organic electronics: fundamentals, materials, and applications. Materials Horizons, 2021, 8, 803-829.	6.4	69
68	In Situ Polymerized Conjugated Poly(pyrene-4,5,9,10-tetraone)/Carbon Nanotubes Composites for High-Performance Cathode of Sodium Batteries. Advanced Energy Materials, 2021, 11, 2002917.	10.2	69
69	Stable Carbon-Selenium Bonds for Enhanced Performance in Tremella-Like 2D Chalcogenide Battery Anode. Advanced Energy Materials, 2018, 8, 1800927.	10.2	68
70	Impact of Viscous Droplets on Superamphiphobic Surfaces. Langmuir, 2017, 33, 144-151.	1.6	67
71	Dynamically Tunable All-Weather Daytime Cellulose Aerogel Radiative Supercooler for Energy-Saving Building. Nano Letters, 2022, 22, 4106-4114.	4.5	65
72	Mitigation of Jahn-Teller distortion and Na ⁺ /vacancy ordering in a distorted manganese oxide cathode material by Li substitution. Chemical Science, 2021, 12, 1062-1067.	3.7	64

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73	Opportunities and challenges for aqueous metal-proton batteries. <i>Matter</i> , 2021, 4, 1252-1273.	5.0	63
74	Structural Engineering of Covalent Organic Frameworks for Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003054.	10.2	61
75	High-Energy-Density Quinone-Based Electrodes with $[Al(OTf)]^{2+}$ Storage Mechanism for Rechargeable Aqueous Aluminum Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2102063.	7.8	61
76	Rationally Designed 2D Covalent Organic Framework with a Brick-Wall Topology. <i>ACS Macro Letters</i> , 2016, 5, 1348-1352.	2.3	59
77	Critical design factors for kinetically favorable P-based compounds toward alloying with Na ions for high-power sodium-ion batteries. <i>Energy and Environmental Science</i> , 2019, 12, 1326-1333.	15.6	58
78	Exploring the Interfacial Chemistry between Zinc Anodes and Aqueous Electrolytes via an In Situ Visualized Characterization System. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55476-55482.	4.0	58
79	Occurrence of organophosphate flame retardants in farmland soils from Northern China: Primary source analysis and risk assessment. <i>Environmental Pollution</i> , 2019, 247, 832-838.	3.7	57
80	Designing Anion-Free Zn^{2+} Solvation Structure for Robust Zn Metal Anode. <i>Angewandte Chemie</i> , 2021, 133, 23545-23552.	1.6	57
81	A reduced graphene oxide-encapsulated phosphorus/carbon composite as a promising anode material for high-performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3683-3690.	5.2	54
82	Liquid-Behaviors-Assisted Fabrication of Multidimensional Birefringent Materials from Dynamic Hybrid Hydrogels. <i>ACS Nano</i> , 2019, 13, 3867-3874.	7.3	54
83	Hierarchical Ti_3C_2Tx MXene/Carbon Nanotubes for Low Overpotential and Long-Life $Li-CO_2$ Batteries. <i>ACS Nano</i> , 2021, 15, 8407-8417.	7.3	54
84	Self-assembly of 3D neat porous carbon aerogels with NaCl as template and flux for sodium-ion batteries. <i>Journal of Power Sources</i> , 2017, 359, 529-538.	4.0	53
85	Analysis of reasons for decline of bioleaching efficiency of spent $Zn-Mn$ batteries at high pulp densities and exploration measure for improving performance. <i>Bioresource Technology</i> , 2012, 112, 186-192.	4.8	52
86	Formation of Uniform Multi-Stimuli-Responsive and Multiblock Hydrogels from Dialdehyde Cellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5313-5319.	3.2	52
87	Functional porous carbon-based composite electrode materials for lithium secondary batteries. <i>Journal of Energy Chemistry</i> , 2013, 22, 214-225.	7.1	51
88	Impact Dynamics of Aqueous Polymer Droplets on Superhydrophobic Surfaces. <i>Macromolecules</i> , 2018, 51, 7817-7827.	2.2	50
89	Structure Selectivity of Alkaline Periodate Oxidation on Lignocellulose for Facile Isolation of Cellulose Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3218-3225.	7.2	50
90	Submillimeter-Sized Bubble Entrapment and a High-Speed Jet Emission during Droplet Impact on Solid Surfaces. <i>Langmuir</i> , 2017, 33, 7225-7230.	1.6	49

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91	Salt-controlled dissolution in pigment cathode for high-capacity and long-life magnesium organic batteries. <i>Nano Energy</i> , 2019, 65, 103902.	8.2	49
92	A thermally and electrochemically stable organic hole-transporting material with an adamantane central core and triarylamine moieties. <i>Synthetic Metals</i> , 2012, 162, 490-496.	2.1	47
93	Novel and legacy per- and polyfluoroalkyl substances (PFASs) in a farmland environment: Soil distribution and biomonitoring with plant leaves and locusts. <i>Environmental Pollution</i> , 2020, 263, 114487.	3.7	46
94	On-Chip Integration of a Covalent Organic Framework-Based Catalyst into a Miniaturized Zn-Air Battery with High Energy Density. <i>ACS Energy Letters</i> , 2021, 6, 2491-2498.	8.8	46
95	Mechanistic insight into the displacement of CH ₄ by CO ₂ in calcite slit nanopores: the effect of competitive adsorption. <i>RSC Advances</i> , 2016, 6, 104456-104462.	1.7	44
96	Proton Inserted Manganese Dioxides as a Reversible Cathode for Aqueous Zn-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 319-327.	2.5	44
97	Self-assembled MnO ₂ urchin-like microspheres as a high-performance cathode for aqueous Zn-ion batteries. <i>Science China Materials</i> , 2020, 63, 1196-1204.	3.5	44
98	Stimuli-responsive nanoparticles from ionic cellulose derivatives. <i>Nanoscale</i> , 2016, 8, 648-657.	2.8	42
99	Super-swelling lignin-based biopolymer hydrogels for soil water retention from paper industry waste. <i>International Journal of Biological Macromolecules</i> , 2019, 135, 815-820.	3.6	42
100	Building Homogenous Li ₂ TiO ₃ Coating Layer on Primary Particles to Stabilize Mn-Based Cathode Materials. <i>Small</i> , 2022, 18, e2106337.	5.2	42
101	Li ₂ MnSiO ₄ @C nanocomposite as a high-capacity cathode material for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12650.	5.2	41
102	Triclinic Off-Stoichiometric Na _{3.12} Mn _{2.44} (P ₂ O ₇) ₂ /C Cathode Materials for High-Energy/Power Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24564-24572.	4.0	41
103	Remarkable Enhancement in Sodium-Ion Kinetics of NaFe ₂ (CN) ₆ by Chemical Bonding with Graphene. <i>Small Methods</i> , 2018, 2, 1700346.	4.6	40
104	Effect of heteroatom and functionality substitution on the oxidation potential of cyclic nitroxide radicals: role of electrostatics in electrochemistry. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 2606-2614.	1.3	40
105	Fe/Fe ₃ C@graphitic carbon shell embedded in carbon nanotubes derived from Prussian blue as cathodes for Li-O ₂ batteries. <i>Materials Chemistry Frontiers</i> , 2018, 2, 376-384.	3.2	39
106	Molecular insight into the micro-behaviors of CH ₄ and CO ₂ in montmorillonite slit-nanopores. <i>Molecular Simulation</i> , 2017, 43, 1004-1011.	0.9	38
107	Spatial and temporal distributions of hexabromocyclododecanes in the vicinity of an expanded polystyrene material manufacturing plant in Tianjin, China. <i>Environmental Pollution</i> , 2017, 222, 338-347.	3.7	37
108	Multi-Responsive Bilayer Hydrogel Actuators with Programmable and Precisely Tunable Motions. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1800562.	1.1	37

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109	The origin of heavy element doping to relieve the lattice thermal vibration of layered materials for high energy density Li ion cathodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12424-12435.	5.2	37
110	Strategies for boosting carbon electrocatalysts for the oxygen reduction reaction in non-aqueous metal-air battery systems. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6671-6693.	5.2	37
111	The release and earthworm bioaccumulation of endogenous hexabromocyclododecanes (HBCDDs) from expanded polystyrene foam microparticles. <i>Environmental Pollution</i> , 2019, 255, 113163.	3.7	36
112	Electrodeposition Accelerates Metal-Based Batteries. <i>Joule</i> , 2020, 4, 10-11.	11.7	36
113	Molecular Design Strategy for High-Redox Potential and Poorly Soluble n-Type Phenazine Derivatives as Cathode Materials for Lithium Batteries. <i>ChemSusChem</i> , 2020, 13, 2337-2344.	3.6	35
114	An MXene-Based Metal Anode with Stepped Sodiophilic Gradient Structure Enables a Large Current Density for Rechargeable Na-O ₂ Batteries. <i>Advanced Materials</i> , 2022, 34, e2106565.	11.1	35
115	Comparative analysis of histone H3 and H4 post-translational modifications of esophageal squamous cell carcinoma with different invasive capabilities. <i>Journal of Proteomics</i> , 2015, 112, 180-189.	1.2	33
116	Conjugated Nitroxide Radical Polymers: Synthesis and Application in Flexible Energy Storage Devices. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7096-7103.	4.0	32
117	High-capacity and small-polarization aluminum organic batteries based on sustainable quinone-based cathodes with Al ³⁺ insertion. <i>Cell Reports Physical Science</i> , 2021, 2, 100354.	2.8	32
118	GeP ₃ with soft and tunable bonding nature enabling highly reversible alloying with Na ions. <i>Materials Today Energy</i> , 2018, 9, 126-136.	2.5	31
119	Hierarchical flower-like structures composed of cross-shaped vanadium dioxide nanobelts as superior performance anode for lithium and sodium ions batteries. <i>Applied Surface Science</i> , 2019, 480, 882-887.	3.1	31
120	Highly Reversible and Rapid Sodium Storage in GeP ₃ with Synergistic Effect from Outside-In Optimization. <i>ACS Nano</i> , 2020, 14, 4352-4365.	7.3	31
121	Polyethylenimine Expanded Graphite Oxide Enables High Sulfur Loading and Long-Term Stability of Lithium-Sulfur Batteries. <i>Small</i> , 2019, 15, e1804578.	5.2	30
122	Engineering Solid Electrolyte Interphase on Red Phosphorus for Long-Term and High-Capacity Sodium Storage. <i>Chemistry of Materials</i> , 2020, 32, 448-458.	3.2	29
123	Covalent Organic Frameworks for Efficient Energy Electrocatalysis: Rational Design and Progress. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000090.	2.8	29
124	A supersensitive sensor for rutin detection based on multi-walled carbon nanotubes and gold nanoparticles modified carbon paste electrodes. <i>Analytical Methods</i> , 2012, 4, 1350.	1.3	28
125	Thermal oxidation of iron nanoparticles and its implication for chemical looping combustion. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 375-380.	1.6	27
126	An unprecedented 2D covalent organic framework with an htb net topology. <i>Chemical Communications</i> , 2019, 55, 13454-13457.	2.2	26

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127	Structural Colors by Synergistic Birefringence and Surface Plasmon Resonance. ACS Nano, 2020, 14, 16832-16839.	7.3	26
128	Electrochemical sensor for Baicalein using a carbon paste electrode doped with carbon nanotubes. Mikrochimica Acta, 2012, 178, 179-186.	2.5	25
129	Improvement on electrochemical performance by electrodeposition of polyaniline nanowires at the top end of sulfur electrode. Applied Surface Science, 2013, 285, 900-906.	3.1	25
130	Room-Temperature Flexible Quasi-Solid-State Rechargeable Na ⁺ O ₂ Batteries. ACS Central Science, 2020, 6, 1955-1963.	5.3	25
131	High-Safety and Dendrite-Free Lithium Metal Batteries Enabled by Building a Stable Interface in a Nonflammable Medium-Concentration Phosphate Electrolyte. ACS Applied Materials & Interfaces, 2021, 13, 50869-50877.	4.0	25
132	Anion- and temperature-dependent assembly, crystal structures and luminescence properties of six new Cd(^{II} /SCP) coordination polymers based on 2,3,5,6-tetrakis(2-pyridyl)pyrazine. CrystEngComm, 2016, 18, 5164-5176.	1.3	24
133	Molecular-level anchoring of polymer cathodes on carbon nanotubes towards rapid-rate and long-cycle sodium-ion storage. Materials Chemistry Frontiers, 2018, 2, 1805-1810.	3.2	24
134	Interfacial Synthesis of Cellulose-Derived Solvent-Responsive Nanoparticles via Schiff Base Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 16595-16603.	3.2	24
135	Modular Nanocomposite Films with Tunable Physical Organization of Cellulose Nanocrystals for Photonic Encryption. Advanced Optical Materials, 2020, 8, 2000547.	3.6	23
136	Rechargeable K ⁺ O ₂ Batteries with a KSn Anode and a Carboxyl ⁻ -Containing Carbon Nanotube Cathode Catalyst. Angewandte Chemie - International Edition, 2021, 60, 9540-9545.	7.2	23
137	Two-Phase Transition Induced Amorphous Metal Phosphides Enabling Rapid, Reversible Alkali-Metal Ion Storage. ACS Nano, 2021, 15, 13486-13494.	7.3	23
138	Cellulose ⁻ -Based Soft Actuators. Macromolecular Materials and Engineering, 2022, 307, .	1.7	23
139	Quinone Electrodes for Alkali ⁺ -Acid Hybrid Batteries. Journal of the American Chemical Society, 2022, 144, 8066-8072.	6.6	23
140	Sulfur-linked carbonyl polymer as a robust organic cathode for rapid and durable aluminum batteries. Journal of Energy Chemistry, 2021, 63, 320-327.	7.1	22
141	Regulating Pseudo-Jahn ⁻ Teller Effect and Superstructure in Layered Cathode Materials for Reversible Alkali-Ion Intercalation. Journal of the American Chemical Society, 2022, 144, 7929-7938.	6.6	22
142	Computational Investigation of a Turbulent Fluidized-bed FCC Regenerator. Industrial & Engineering Chemistry Research, 2013, 52, 4000-4010.	1.8	21
143	Ultrathin carbon-coated FeS ₂ nanooctahedra for sodium storage with long cycling stability. Inorganic Chemistry Frontiers, 2019, 6, 459-464.	3.0	21
144	Multifunctional Reversible Self ⁻ Assembled Structures of Cellulose ⁻ -Derived Phase ⁻ Change Nanocrystals. Advanced Materials, 2021, 33, e2005263.	11.1	21

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145	Efficient, Self-Terminating Isolation of Cellulose Nanocrystals through Periodate Oxidation in Pickering Emulsions. <i>ChemSusChem</i> , 2018, 11, 3581-3585.	3.6	20
146	Benzoselenol as an organic electrolyte additive in Li-S battery. <i>Nano Research</i> , 2023, 16, 3814-3822.	5.8	20
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