Kai Zhang

List of Publications by Year
in descending order

201 papers	17,810 citations	14655 66 h-index	14208 128 g-index
208 all docs	208 docs citations	208 times ranked	15637 citing authors

#	Article	IF	Citations
1	Recent Advances and Prospects of Cathode Materials for Sodiumâ€Ion Batteries. Advanced Materials, 2015, 27, 5343-5364.	21.0	915
2	Nanostructured Mn-based oxides for electrochemical energy storage and conversion. Chemical Society Reviews, 2015, 44, 699-728.	38.1	740
3	MoS₂ Nanoflowers with Expanded Interlayers as Highâ€Performance Anodes for Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2014, 53, 12794-12798.	13.8	670
4	Pyrite FeS₂for high-rate and long-life rechargeable sodium batteries. Energy and Environmental Science, 2015, 8, 1309-1316.	30.8	628
5	FeSe₂ Microspheres as a Highâ€Performance Anode Material for Naâ€Ion Batteries. Advanced Materials, 2015, 27, 3305-3309.	21.0	581
6	Urchinâ€Like CoSe₂ as a Highâ€Performance Anode Material for Sodiumâ€Ion Batteries. Advanced Functional Materials, 2016, 26, 6728-6735.	14.9	471
7	Recent Developments on and Prospects for Electrode Materials with Hierarchical Structures for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1701415.	19.5	436
8	Modulating electrolyte structure for ultralow temperature aqueous zinc batteries. Nature Communications, 2020, 11, 4463.	12.8	431
9	Advances and Challenges for the Electrochemical Reduction of CO₂ to CO: From Fundamentals to Industrialization. Angewandte Chemie - International Edition, 2021, 60, 20627-20648.	13.8	408
10	Cobaltâ€Doped FeS₂ Nanospheres with Complete Solid Solubility as a Highâ€Performance Anode Material for Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2016, 55, 12822-12826.	13.8	394
11	Organic Li₄C₈H₂O₆ Nanosheets for Lithium-Ion Batteries. Nano Letters, 2013, 13, 4404-4409.	9.1	352
12	Na₃V₂(PO₄)₃@C coreâ€“shell nanocomposites for rechargeable sodium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 8668-8675.	10.3	348
13	MoS₂ Nanoflowers with Expanded Interlayers as Highâ€Performance Anodes for Sodiumâ€Ion Batteries. Angewandte Chemie, 2014, 126, 13008-13012.	2.0	310
14	Recent Developments of the Lithium Metal Anode for Rechargeable Nonâ€Aqueous Batteries. Advanced Energy Materials, 2016, 6, 1600811.	19.5	306
15	Cobaltâ€Doped FeS₂ Nanospheres with Complete Solid Solubility as a Highâ€Performance Anode Material for Sodiumâ€Ion Batteries. Angewandte Chemie, 2016, 128, 13014-13018.	2.0	268
16	Advanced Nanocelluloseâ€Based Composites for Flexible Functional Energy Storage Devices. Advanced Materials, 2021, 33, e2101368.	21.0	251
17	Structural and chemical synergistic effect of CoS nanoparticles and porous carbon nanorods for high-performance sodium storage. Nano Energy, 2017, 35, 281-289.	16.0	247
18	Thermoresponsive polymers and their biomedical application in tissue engineering â€“ a review. Journal of Materials Chemistry B, 2020, 8, 607-628.	5.8	237

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19	Comprehensive Profiling of Protein Lysine Acetylation in Escherichia coli. Journal of Proteome Research, 2013, 12, 844-851.	3.7	234
20	Porous CuO nanowires as the anode of rechargeable Na-ion batteries. Nano Research, 2014, 7, 199-208.	10.4	233
21	Composite of sulfur impregnated in porous hollow carbon spheres as the cathode of Li-S batteries with high performance. Nano Research, 2013, 6, 38-46.	10.4	232
22	Highâ€Voltage Chargingâ€Induced Strain, Heterogeneity, and Microâ€Cracks in Secondary Particles of a Nickelâ€Rich Layered Cathode Material. Advanced Functional Materials, 2019, 29, 1900247.	14.9	219
23	Antifreezing Hydrogel with High Zinc Reversibility for Flexible and Durable Aqueous Batteries by Cooperative Hydrated Cations. Advanced Functional Materials, 2020, 30, 1907218.	14.9	209
24	Manganese based layered oxides with modulated electronic and thermodynamic properties for sodium ion batteries. Nature Communications, 2019, 10, 5203.	12.8	202
25	Designing Anionâ€Type Waterâ€Free Zn²⁺ Solvation Structure for Robust Zn Metal Anode. Angewandte Chemie - International Edition, 2021, 60, 23357-23364.	13.8	179
26	Sulfur Nanodots Electrodeposited on Ni Foam as High-Performance Cathode for Liâ€“S Batteries. Nano Letters, 2015, 15, 721-726.	9.1	175
27	Recent breakthroughs and perspectives of high-energy layered oxide cathode materials for lithium ion batteries. Materials Today, 2021, 43, 132-165.	14.2	174
28	Interlayerâ€Spacingâ€Regulated VOPO₄ Nanosheets with Fast Kinetics for Highâ€Capacity and Durable Rechargeable Magnesium Batteries. Advanced Materials, 2018, 30, e1801984.	21.0	171
29	Potassiumâ€“Sulfur Batteries: A New Member of Room-Temperature Rechargeable Metalâ€“Sulfur Batteries. Inorganic Chemistry, 2014, 53, 9000-9005.	4.0	163
30	Stable Aqueous Anodeâ€Free Zinc Batteries Enabled by Interfacial Engineering. Advanced Functional Materials, 2021, 31, 2101886.	14.9	162
31	Cellulose Nanopaper: Fabrication, Functionalization, and Applications. Nano-Micro Letters, 2022, 14, 104.	27.0	161
32	Highâ€Performance Organic Lithium Batteries with an Etherâ€Based Electrolyte and 9,10â€Anthraquinone (AQ)/CMKâ€3 Cathode. Advanced Science, 2015, 2, 1500018.	11.2	155
33	Facile synthesis and electrochemical sodium storage of CoS2 micro/nano-structures. Nano Research, 2016, 9, 198-206.	10.4	142
34	Identification and Verification of Lysine Propionylation and Butyrylation in Yeast Core Histones Using PTMap Software. Journal of Proteome Research, 2009, 8, 900-906.	3.7	141
35	A 3D Hydroxylated MXene/Carbon Nanotubes Composite as a Scaffold for Dendriteâ€Free Sodiumâ€Metal Electrodes. Angewandte Chemie - International Edition, 2020, 59, 16705-16711.	13.8	138
36	Challenges and advances in wide-temperature rechargeable lithium batteries. Energy and Environmental Science, 2022, 15, 1711-1759.	30.8	138

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37	Nanooctahedra Particles Assembled FeSe₂Microspheres Embedded into Sulfur-Doped Reduced Graphene Oxide Sheets As a Promising Anode for Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 13849-13856.	8.0	135
38	Li3V2(PO4)3@C coreâ€“shell nanocomposite as a superior cathode material for lithium-ion batteries. Nanoscale, 2013, 5, 6485.	5.6	130
39	Designing Hybrid Chiral Photonic Films with Circularly Polarized Room-Temperature Phosphorescence. ACS Nano, 2020, 14, 11130-11139.	14.6	130
40	Bismuth Nanoparticles Embedded in Carbon Spheres as Anode Materials for Sodium/Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2016, 22, 2333-2338.	3.3	123
41	Stable organic radical polymers: synthesis and applications. Polymer Chemistry, 2016, 7, 5589-5614.	3.9	123
42	Ultrasmall Li2S Nanoparticles Anchored in Graphene Nanosheets for High-Energy Lithium-Ion Batteries. Scientific Reports, 2014, 4, 6467.	3.3	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.	13.7	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.	4.1	117
45	Facile polymer-assisted synthesis of LiNi0.5Mn1.5O4 with a hierarchical microâ€“nano structure and high rate capability. RSC Advances, 2012, 2, 5669.	3.6	111
46	FeS₂ microspheres with an ether-based electrolyte for high-performance rechargeable lithium batteries. Journal of Materials Chemistry A, 2015, 3, 12898-12904.	10.3	111
47	Construction of a hydrazone-linked chiral covalent organic frameworkâ€“silica composite as the stationary phase for high performance liquid chromatography. Journal of Chromatography A, 2017, 1519, 100-109.	3.7	110
48	Improved cyclability of lithiumâ€“sulfur battery cathode using encapsulated sulfur in hollow carbon nanofiber@nitrogen-doped porous carbon coreâ€“shell composite. Carbon, 2014, 78, 1-9.	10.3	108
49	Bifunctional Conducting Polymer Coated CoP Coreâ€“Shell Nanowires on Carbon Paper as a Freeâ€Standing Anode for Sodium Ion Batteries. Advanced Energy Materials, 2018, 8, 1800283.	19.5	104
50	Few-layered MoS₂/C with expanding d-spacing as a high-performance anode for sodium-ion batteries. Nanoscale, 2017, 9, 12189-12195.	5.6	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.	10.4	97
52	All Carbon Dual Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 35978-35983.	8.0	93
53	A Lowâ€Strain Potassiumâ€Rich Prussian Blue Analogue Cathode for High Power Potassiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 13050-13056.	13.8	90
54	A simple synthesis of hollow carbon nanofiber-sulfur composite via mixed-solvent process for lithiumâ€“sulfur batteries. Journal of Power Sources, 2014, 256, 137-144.	7.8	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.	6.7	86
56	Advances and Challenges for the Electrochemical Reduction of CO₂ to CO: From Fundamentals to Industrialization. Angewandte Chemie, 2021, 133, 20795-20816.	2.0	82
57	A Universal Graphene Quantum Dot Tethering Design Strategy to Synthesize Singleâ€Atom Catalysts. Angewandte Chemie - International Edition, 2020, 59, 21885-21889.	13.8	79
58	Inorganic & organic materials for rechargeable Li batteries with multi-electron reaction. Science China Materials, 2014, 57, 42-58.	6.3	78
59	The impact of the molecular weight on the electrochemical properties of poly(TEMPO methacrylate). Polymer Chemistry, 2017, 8, 1815-1823.	3.9	78
60	Electrochemically Derived Grapheneâ€Like Carbon Film as a Superb Substrate for Highâ€Performance Aqueous Znâ€Ion Batteries. Advanced Functional Materials, 2020, 30, 1907120.	14.9	78
61	Flowerâ€like MoSe₂/C Composite with Expanded (0â€‰0â€‰2) Planes of Fewâ€layer MoSe₂ as the Anode for Highâ€Performance Sodiumâ€Ion Batteries. Chemistry - A European Journal, 2017, 23, 14004-14010.	3.3	74
62	Regulating Electrocatalytic Oxygen Reduction Activity of a Metal Coordination Polymer via dâ€“Ï€ Conjugation. Angewandte Chemie - International Edition, 2021, 60, 16937-16941.	13.8	74
63	Intergrown Li2FeSiO4Â·LiFePO4â€“C nanocomposites as high-capacity cathode materials for lithium-ion batteries. Chemical Communications, 2013, 49, 3040.	4.1	73
64	Insights into the Ionic Conduction Mechanism of Quasiâ€Solid Polymer Electrolytes through Multispectral Characterization. Angewandte Chemie - International Edition, 2021, 60, 22672-22677.	13.8	72
65	Covalent Organic Frameworks and Their Derivatives for Better Metal Anodes in Rechargeable Batteries. ACS Nano, 2021, 15, 12741-12767.	14.6	71
66	Recent Progress on Celluloseâ€Based Ionic Compounds for Biomaterials. Advanced Materials, 2021, 33, e2000717.	21.0	70
67	Nitroxide radical polymers for emerging plastic energy storage and organic electronics: fundamentals, materials, and applications. Materials Horizons, 2021, 8, 803-829.	12.2	69
68	In Situ Polymerized Conjugated Poly(pyreneâ€4,5,9,10â€tetraone)/Carbon Nanotubes Composites for Highâ€Performance Cathode of Sodium Batteries. Advanced Energy Materials, 2021, 11, 2002917.	19.5	69
69	Stable Carbonâ€“Selenium Bonds for Enhanced Performance in Tremellaâ€Like 2D Chalcogenide Battery Anode. Advanced Energy Materials, 2018, 8, 1800927.	19.5	68
70	Impact of Viscous Droplets on Superamphiphobic Surfaces. Langmuir, 2017, 33, 144-151.	3.5	67
71	Dynamically Tunable All-Weather Daytime Cellulose Aerogel Radiative Supercooler for Energy-Saving Building. Nano Letters, 2022, 22, 4106-4114.	9.1	65
72	Mitigation of Jahnâ€“Teller distortion and Na⁺/vacancy ordering in a distorted manganese oxide cathode material by Li substitution. Chemical Science, 2021, 12, 1062-1067.	7.4	64

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73	Opportunities and challenges for aqueous metal-proton batteries. Matter, 2021, 4, 1252-1273.	10.0	63
74	Structural Engineering of Covalent Organic Frameworks for Rechargeable Batteries. Advanced Energy Materials, 2021, 11, 2003054.	19.5	61
75	Highâ€Energyâ€Density Quinoneâ€Based Electrodes with [Al(OTF)]²⁺ Storage Mechanism for Rechargeable Aqueous Aluminum Batteries. Advanced Functional Materials, 2021, 31, 2102063.	14.9	61
76	Rationally Designed 2D Covalent Organic Framework with a Brick-Wall Topology. ACS Macro Letters, 2016, 5, 1348-1352.	4.8	59
77	Critical design factors for kinetically favorable P-based compounds toward alloying with Na ions for high-power sodium-ion batteries. Energy and Environmental Science, 2019, 12, 1326-1333.	30.8	58
78	Exploring the Interfacial Chemistry between Zinc Anodes and Aqueous Electrolytes via an In Situ Visualized Characterization System. ACS Applied Materials & Interfaces, 2020, 12, 55476-55482.	8.0	58
79	Occurrence of organophosphate flame retardants in farmland soils from Northern China: Primary source analysis and risk assessment. Environmental Pollution, 2019, 247, 832-838.	7.5	57
80	Designing Anionâ€Type Waterâ€Free Zn²⁺ Solvation Structure for Robust Zn Metal Anode. Angewandte Chemie, 2021, 133, 23545-23552.	2.0	57
81	A reduced graphene oxide-encapsulated phosphorus/carbon composite as a promising anode material for high-performance sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 3683-3690.	10.3	54
82	Liquid-Behaviors-Assisted Fabrication of Multidimensional Birefringent Materials from Dynamic Hybrid Hydrogels. ACS Nano, 2019, 13, 3867-3874.	14.6	54
83	Hierarchical Ti₃C₂T_x MXene/Carbon Nanotubes for Low Overpotential and Long-Life Li-CO₂ Batteries. ACS Nano, 2021, 15, 8407-8417.	14.6	54
84	Self-assembly of 3D neat porous carbon aerogels with NaCl as template and flux for sodium-ion batteries. Journal of Power Sources, 2017, 359, 529-538.	7.8	53
85	Analysis of reasons for decline of bioleaching efficiency of spent Znâ€“Mn batteries at high pulp densities and exploration measure for improving performance. Bioresource Technology, 2012, 112, 186-192.	9.6	52
86	Formation of Uniform Multi-Stimuli-Responsive and Multiblock Hydrogels from Dialdehyde Cellulose. ACS Sustainable Chemistry and Engineering, 2017, 5, 5313-5319.	6.7	52
87	Functional porous carbon-based composite electrode materials for lithium secondary batteries. Journal of Energy Chemistry, 2013, 22, 214-225.	12.9	51
88	Impact Dynamics of Aqueous Polymer Droplets on Superhydrophobic Surfaces. Macromolecules, 2018, 51, 7817-7827.	4.8	50
89	Structure Selectivity of Alkaline Periodate Oxidation on Lignocellulose for Facile Isolation of Cellulose Nanocrystals. Angewandte Chemie - International Edition, 2020, 59, 3218-3225.	13.8	50
90	Submillimeter-Sized Bubble Entrapment and a High-Speed Jet Emission during Droplet Impact on Solid Surfaces. Langmuir, 2017, 33, 7225-7230.	3.5	49

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91	Salt-controlled dissolution in pigment cathode for high-capacity and long-life magnesium organic batteries. Nano Energy, 2019, 65, 103902.	16.0	49
92	A thermally and electrochemically stable organic hole-transporting material with an adamantane central core and triarylamine moieties. Synthetic Metals, 2012, 162, 490-496.	3.9	47
93	Novel and legacy per- and polyfluoroalkyl substances (PFASs) in a farmland environment: Soil distribution and biomonitoring with plant leaves and locusts. Environmental Pollution, 2020, 263, 114487.	7.5	46
94	On-Chip Integration of a Covalent Organic Framework-Based Catalyst into a Miniaturized Znâ€“Air Battery with High Energy Density. ACS Energy Letters, 2021, 6, 2491-2498.	17.4	46
95	Mechanistic insight into the displacement of CH₄ by CO₂ in calcite slit nanopores: the effect of competitive adsorption. RSC Advances, 2016, 6, 104456-104462.	3.6	44
96	Proton Inserted Manganese Dioxides as a Reversible Cathode for Aqueous Zn-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 319-327.	5.1	44
97	Self-assembled Î±-MnO2 urchin-like microspheres as a high-performance cathode for aqueous Zn-ion batteries. Science China Materials, 2020, 63, 1196-1204.	6.3	44
98	Stimuli-responsive nanoparticles from ionic cellulose derivatives. Nanoscale, 2016, 8, 648-657.	5.6	42
99	Super-swelling lignin-based biopolymer hydrogels for soil water retention from paper industry waste. International Journal of Biological Macromolecules, 2019, 135, 815-820.	7.5	42
100	Building Homogenous Li₂TiO₃ Coating Layer on Primary Particles to Stabilize Liâ€Rich Mnâ€Based Cathode Materials. Small, 2022, 18, e2106337.	10.0	42
101	Li2MnSiO4@C nanocomposite as a high-capacity cathode material for Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 12650.	10.3	41
102	Triclinic Off-Stoichiometric Na_{3.12}Mn_{2.44}(P₂O₇)₂/C Cathode Materials for High-Energy/Power Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 24564-24572.	8.0	41
103	Remarkable Enhancement in Sodiumâ€Ion Kinetics of NaFe₂(CN)₆ by Chemical Bonding with Graphene. Small Methods, 2018, 2, 1700346.	8.6	40
104	Effect of heteroatom and functionality substitution on the oxidation potential of cyclic nitroxide radicals: role of electrostatics in electrochemistry. Physical Chemistry Chemical Physics, 2018, 20, 2606-2614.	2.8	40
105	Fe/Fe₃C@graphitic carbon shell embedded in carbon nanotubes derived from Prussian blue as cathodes for Liâ€“O₂ batteries. Materials Chemistry Frontiers, 2018, 2, 376-384.	5.9	39
106	Molecular insight into the micro-behaviors of CH₄ and CO₂ in montmorillonite slit-nanopores. Molecular Simulation, 2017, 43, 1004-1011.	2.0	38
107	Spatial and temporal distributions of hexabromocyclododecanes in the vicinity of an expanded polystyrene material manufacturing plant in Tianjin, China. Environmental Pollution, 2017, 222, 338-347.	7.5	37
108	Multiâ€Responsive Bilayer Hydrogel Actuators with Programmable and Precisely Tunable Motions. Macromolecular Chemistry and Physics, 2019, 220, 1800562.	2.2	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. Journal of Materials Chemistry A, 2020, 8, 12424-12435.	10.3	37
110	Strategies for boosting carbon electrocatalysts for the oxygen reduction reaction in non-aqueous metalâ€“air battery systems. Journal of Materials Chemistry A, 2021, 9, 6671-6693.	10.3	37
111	The release and earthworm bioaccumulation of endogenous hexabromocyclododecanes (HBCDDs) from expanded polystyrene foam microparticles. Environmental Pollution, 2019, 255, 113163.	7.5	36
112	Electrodeposition Accelerates Metal-Based Batteries. Joule, 2020, 4, 10-11.	24.0	36
113	Molecular Design Strategy for Highâ€Redoxâ€Potential and Poorly Soluble nâ€Type Phenazine Derivatives as Cathode Materials for Lithium Batteries. ChemSusChem, 2020, 13, 2337-2344.	6.8	35
114	An MXeneâ€Based Metal Anode with Stepped Sodiophilic Gradient Structure Enables a Large Current Density for Rechargeable Naâ€“O₂ Batteries. Advanced Materials, 2022, 34, e2106565.	21.0	35
115	Comparative analysis of histone H3 and H4 post-translational modifications of esophageal squamous cell carcinoma with different invasive capabilities. Journal of Proteomics, 2015, 112, 180-189.	2.4	33
116	Conjugated Nitroxide Radical Polymers: Synthesis and Application in Flexible Energy Storage Devices. ACS Applied Materials & Interfaces, 2019, 11, 7096-7103.	8.0	32
117	High-capacity and small-polarization aluminum organic batteries based on sustainable quinone-based cathodes with Al3+ insertion. Cell Reports Physical Science, 2021, 2, 100354.	5.6	32
118	GeP3 with soft and tunable bonding nature enabling highly reversible alloying with Na ions. Materials Today Energy, 2018, 9, 126-136.	4.7	31
119	Hierarchical flower-like structures composed of cross-shaped vanadium dioxide nanobelts as superior performance anode for lithium and sodium ions batteries. Applied Surface Science, 2019, 480, 882-887.	6.1	31
120	Highly Reversible and Rapid Sodium Storage in GeP₃ with Synergistic Effect from Outside-In Optimization. ACS Nano, 2020, 14, 4352-4365.	14.6	31
121	Polyethylenimine Expanded Graphite Oxide Enables High Sulfur Loading and Longâ€Term Stability of Lithiumâ€“Sulfur Batteries. Small, 2019, 15, e1804578.	10.0	30
122	Engineering Solid Electrolyte Interphase on Red Phosphorus for Long-Term and High-Capacity Sodium Storage. Chemistry of Materials, 2020, 32, 448-458.	6.7	29
123	Covalent Organic Frameworks for Efficient Energy Electrocatalysis: Rational Design and Progress. Advanced Energy and Sustainability Research, 2021, 2, 2000090.	5.8	29
124	A supersensitive sensor for rutin detection based on multi-walled carbon nanotubes and gold nanoparticles modified carbon paste electrodes. Analytical Methods, 2012, 4, 1350.	2.7	28
125	Thermal oxidation of iron nanoparticles and its implication for chemicalâ€looping combustion. Journal of Chemical Technology and Biotechnology, 2011, 86, 375-380.	3.2	27
126	An unprecedented 2D covalent organic framework with an htb net topology. Chemical Communications, 2019, 55, 13454-13457.	4.1	26

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127	Structural Colors by Synergistic Birefringence and Surface Plasmon Resonance. ACS Nano, 2020, 14, 16832-16839.	14.6	26
128	Electrochemical sensor for Baicalein using a carbon paste electrode doped with carbon nanotubes. Mikrochimica Acta, 2012, 178, 179-186.	5.0	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.	6.1	25
130	Room-Temperature Flexible Quasi-Solid-State Rechargeable Naâ€“O₂ Batteries. ACS Central Science, 2020, 6, 1955-1963.	11.3	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.	8.0	25
132	Anion- and temperature-dependent assembly, crystal structures and luminescence properties of six new Cd(<scp>ii</scp>) coordination polymers based on 2,3,5,6-tetrakis(2-pyridyl)pyrazine. CrystEngComm, 2016, 18, 5164-5176.	2.6	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.	5.9	24
134	Interfacial Synthesis of Cellulose-Derived Solvent-Responsive Nanoparticles via Schiff Base Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 16595-16603.	6.7	24
135	Modular Nanocomposite Films with Tunable Physical Organization of Cellulose Nanocrystals for Photonic Encryption. Advanced Optical Materials, 2020, 8, 2000547.	7.3	23
136	Rechargeable Kâ€CO₂ Batteries with a KSn Anode and a Carboxylâ€Containing Carbon Nanotube Cathode Catalyst. Angewandte Chemie - International Edition, 2021, 60, 9540-9545.	13.8	23
137	Two-Phase Transition Induced Amorphous Metal Phosphides Enabling Rapid, Reversible Alkali-Metal Ion Storage. ACS Nano, 2021, 15, 13486-13494.	14.6	23
138	Celluloseâ€Based Soft Actuators. Macromolecular Materials and Engineering, 2022, 307, .	3.6	23
139	Quinone Electrodes for Alkaliâ€“Acid Hybrid Batteries. Journal of the American Chemical Society, 2022, 144, 8066-8072.	13.7	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.	12.9	22
141	Regulating Pseudo-Jahnâ€“Teller Effect and Superstructure in Layered Cathode Materials for Reversible Alkali-Ion Intercalation. Journal of the American Chemical Society, 2022, 144, 7929-7938.	13.7	22
142	Computational Investigation of a Turbulent Fluidized-bed FCC Regenerator. Industrial & Engineering Chemistry Research, 2013, 52, 4000-4010.	3.7	21
143	Ultrathin carbon-coated FeS₂ nanooctahedra for sodium storage with long cycling stability. Inorganic Chemistry Frontiers, 2019, 6, 459-464.	6.0	21
144	Multifunctional Reversible Selfâ€Assembled Structures of Celluloseâ€Derived Phaseâ€Change Nanocrystals. Advanced Materials, 2021, 33, e2005263.	21.0	21

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145	Efficient, Selfâ€Terminating Isolation of Cellulose Nanocrystals through Periodate Oxidation in Pickering Emulsions. ChemSusChem, 2018, 11, 3581-3585.	6.8	20
146	Benzoselenol as an organic electrolyte additive in Li-S battery. Nano Research, 2023, 16, 3814-3822.	10.4	20
147	Hydrothermal synthesis of spindle-like Li2FeSiO4-C composite as cathode materials for lithium-ion batteries. Journal of Energy Chemistry, 2014, 23, 274-281.	12.9	19
148	Thermoreversible Selfâ€Assembly of Perfluorinated Coreâ€Coronas Celluloseâ€Nanoparticles in Dry State. Advanced Materials, 2017, 29, 1702473.	21.0	19
149	Strong but reversible sorption on polar microplastics enhanced earthworm bioaccumulation of associated organic compounds. Journal of Hazardous Materials, 2022, 423, 127079.	12.4	19
150	Current separative strategies used for resveratrol determination from natural sources. Analytical Methods, 2011, 3, 2454.	2.7	17
151	Snâ€“Al coreâ€“shell nanocomposite as thin film anode for lithium-ion batteries. Journal of Alloys and Compounds, 2015, 644, 742-749.	5.5	17
152	Helical Fibers via Evaporationâ€Driven Selfâ€Assembly of Surfaceâ€Acylated Cellulose Nanowhiskers. Angewandte Chemie - International Edition, 2018, 57, 16323-16328.	13.8	17
153	In-situ growth poly(N-methylaniline) coating on sulfur cathode for lithium-sulfur battery. Journal of Electroanalytical Chemistry, 2020, 871, 114312.	3.8	17
154	A Lowâ€Strain Potassiumâ€Rich Prussian Blue Analogue Cathode for High Power Potassiumâ€Ion Batteries. Angewandte Chemie, 2021, 133, 13160-13166.	2.0	16
155	Fabrication of a hydrazoneâ€linked covalent organic frameworkâ€bound capillary column for gas chromatography separation. Separation Science Plus, 2019, 2, 120-128.	0.6	14
156	Interfacial structure design for triboelectric nanogenerators. , 2022, 1, .		14
157	Helical Fibers via Evaporationâ€Driven Selfâ€Assembly of Surfaceâ€Acylated Cellulose Nanowhiskers. Angewandte Chemie, 2018, 130, 16561-16566.	2.0	13
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