

# Kai Zhang

## List of Publications by Year in descending order

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201  
papers

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14655

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h-index

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128  
g-index

208  
all docs

208  
docs citations

208  
times ranked

15637  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Benzoselenol as an organic electrolyte additive in Li-S battery. Nano Research, 2023, 16, 3814-3822.  | 10.4 | 20        |
| 2  | Strong but reversible sorption on polar microplastics enhanced earthworm bioaccumulation of associated organic compounds. Journal of Hazardous Materials, 2022, 423, 127079.                  | 12.4 | 19        |
| 3  | Building Homogenous $\text{Li}_2\text{TiO}_3$ Coating Layer on Primary Particles to Stabilize Li-Rich Mn-Based Cathode Materials. Small, 2022, 18, e2106337.                                  | 10.0 | 42        |
| 4  | Biomimetic confined self-assembly of chitin nanocrystals. Nano Today, 2022, 43, 101420.   | 11.9 | 7         |
| 5  | An All-Organic battery with 2.8V output voltage. Chemical Engineering Journal, 2022, 434, 134651.   | 12.7 | 8         |
| 6  | An MXene-Based Metal Anode with Stepped Sodiophilic Gradient Structure Enables a Large Current Density for Rechargeable $\text{NaO}_2$ Batteries. Advanced Materials, 2022, 34, e2106565.     | 21.0 | 35        |
| 7  | Direct nitrogen interception from chitin/chitosan for imidazo[1,5-a]pyridines. Chemical Communications, 2022, 58, 6068-6071.  | 4.1  | 8         |
| 8  | Challenges and advances in wide-temperature rechargeable lithium batteries. Energy and Environmental Science, 2022, 15, 1711-1759.  | 30.8 | 138       |
| 9  | Cellulose-Based Soft Actuators. Macromolecular Materials and Engineering, 2022, 307, .  | 3.6  | 23        |
| 10 | Anomeric Stereoauxiliary Cleavage of the C~N Bond of $\alpha$ -Glucosamine for the Preparation of Imidazo[1,5-a]pyridines. Chemistry - A European Journal, 2022, 28, .                        | 3.3  | 10        |
| 11 | Cellulose Nanopaper: Fabrication, Functionalization, and Applications. Nano-Micro Letters, 2022, 14, 104.   | 27.0 | 161       |
| 12 | 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. | 13.7 | 22        |
| 13 | Quinone Electrodes for Alkali-Acid Hybrid Batteries. Journal of the American Chemical Society, 2022, 144, 8066-8072.  | 13.7 | 23        |
| 14 | Dynamically Tunable All-Weather Daytime Cellulose Aerogel Radiative Supercooler for Energy-Saving Building. Nano Letters, 2022, 22, 4106-4114.  | 9.1  | 65        |
| 15 | Interfacial structure design for triboelectric nanogenerators. , 2022, 1, .   |      | 14        |
| 16 | Hysteresis Induced by Incomplete Cationic Redox in Li-Rich 3d-Transition-Metal Layered Oxides Cathodes. Advanced Science, 2022, 9, .  | 11.2 | 7         |
| 17 | Recent Progress on Cellulose-Based Ionic Compounds for Biomaterials. Advanced Materials, 2021, 33, e2000717.  | 21.0 | 70        |
| 18 | Multifunctional Reversible Self-Assembled Structures of Cellulose-Derived Phase-Change Nanocrystals. Advanced Materials, 2021, 33, e2005263.  | 21.0 | 21        |

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|----|--|------|-----------|
| 19 | Recent breakthroughs and perspectives of high-energy layered oxide cathode materials for lithium ion batteries. <i>Materials Today</i> , 2021, 43, 132-165.  | 14.2 | 174       |
| 20 | Mitigation of Jahn–Teller distortion and Na <sup>+</sup> /vacancy ordering in a distorted manganese oxide cathode material by Li substitution. <i>Chemical Science</i> , 2021, 12, 1062-1067.  | 7.4  | 64        |
| 21 | Nitroxide radical polymers for emerging plastic energy storage and organic electronics: fundamentals, materials, and applications. <i>Materials Horizons</i> , 2021, 8, 803-829.   | 12.2 | 69        |
| 22 | Interfacial engineering facilitating robust Li <sub>0.35</sub> Ga <sub>0.15</sub> La <sub>3</sub> Zr <sub>1.8</sub> Nb <sub>0.2</sub> O <sub>12</sub> for all-solid-state lithium batteries. <i>Sustainable Energy and Fuels</i> , 2021, 5, 2077-2084. | 4.9  | 10        |
| 23 | Electroless Formation of a Fluorinated Li/Na Hybrid Interphase for Robust Lithium Anodes. <i>Journal of the American Chemical Society</i> , 2021, 143, 2829-2837.  | 13.7 | 119       |
| 24 | Covalent Organic Frameworks for Efficient Energy Electrocatalysis: Rational Design and Progress. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000090.  | 5.8  | 29        |
| 25 | Structural Engineering of Covalent Organic Frameworks for Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003054.  | 19.5 | 61        |
| 26 | Aromaticity/Antiaromaticity Effect on Activity of Transition Metal Macrocyclic Complexes towards Electrocatalytic Oxygen Reduction. <i>ChemSusChem</i> , 2021, 14, 1835-1839.  | 6.8  | 10        |
| 27 | Rechargeable K <sub>2</sub> CO <sub>2</sub> Batteries with a KSn Anode and a Carboxyl-Containing Carbon Nanotube Cathode Catalyst. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9540-9545.   | 13.8 | 23        |
| 28 | Rechargeable K <sub>2</sub> CO <sub>2</sub> Batteries with a KSn Anode and a Carboxyl-Containing Carbon Nanotube Cathode Catalyst. <i>Angewandte Chemie</i> , 2021, 133, 9626-9631.  | 2.0  | 5         |
| 29 | High-capacity and small-polarization aluminum organic batteries based on sustainable quinone-based cathodes with Al <sup>3+</sup> insertion. <i>Cell Reports Physical Science</i> , 2021, 2, 100354.   | 5.6  | 32        |
| 30 | High-Energy-Density Quinone-Based Electrodes with [Al(OTf)] <sup>2+</sup> Storage Mechanism for Rechargeable Aqueous Aluminum Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2102063.   | 14.9 | 61        |
| 31 | Opportunities and challenges for aqueous metal-proton batteries. <i>Matter</i> , 2021, 4, 1252-1273.   | 10.0 | 63        |
| 32 | A Low-Strain Potassium-Rich Prussian Blue Analogue Cathode for High Power Potassium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13050-13056.   | 13.8 | 90        |
| 33 | Stable Aqueous Anode-Free Zinc Batteries Enabled by Interfacial Engineering. <i>Advanced Functional Materials</i> , 2021, 31, 2101886.   | 14.9 | 162       |
| 34 | A Low-Strain Potassium-Rich Prussian Blue Analogue Cathode for High Power Potassium-Ion Batteries. <i>Angewandte Chemie</i> , 2021, 133, 13160-13166.  | 2.0  | 16        |
| 35 | Advances and Challenges for the Electrochemical Reduction of CO <sub>2</sub> to CO: From Fundamentals to Industrialization. <i>Angewandte Chemie</i> , 2021, 133, 20795-20816.   | 2.0  | 82        |
| 36 | Hierarchical Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene/Carbon Nanotubes for Low Overpotential and Long-Life Li-CO <sub>2</sub> Batteries. <i>ACS Nano</i> , 2021, 15, 8407-8417.   | 14.6 | 54        |

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|----|--|------|-----------|
| 37 | Advances and Challenges for the Electrochemical Reduction of CO <sub>2</sub> to CO: From Fundamentals to Industrialization. Angewandte Chemie - International Edition, 2021, 60, 20627-20648.                                | 13.8 | 408       |
| 38 | Self-Compounded Nanocomposites: toward Multifunctional Membranes with Superior Mechanical, Gas/Oil Barrier, UV-Shielding, and Photothermal Conversion Properties. ACS Applied Materials & Interfaces, 2021, 13, 28668-28678. | 8.0  | 7         |
| 39 | Regulating Electrocatalytic Oxygen Reduction Activity of a Metal Coordination Polymer via dâ€ƒ Conjugation. Angewandte Chemie, 2021, 133, 17074-17078.   | 2.0  | 9         |
| 40 | On-Chip Integration of a Covalent Organic Framework-Based Catalyst into a Miniaturized Znâ€ƒAir Battery with High Energy Density. ACS Energy Letters, 2021, 6, 2491-2498.  | 17.4 | 46        |
| 41 | Regulating Electrocatalytic Oxygen Reduction Activity of a Metal Coordination Polymer via dâ€ƒ Conjugation. Angewandte Chemie - International Edition, 2021, 60, 16937-16941.  | 13.8 | 74        |
| 42 | 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        |
| 43 | Covalent Organic Frameworks and Their Derivatives for Better Metal Anodes in Rechargeable Batteries. ACS Nano, 2021, 15, 12741-12767.  | 14.6 | 71        |
| 44 | Two-Phase Transition Induced Amorphous Metal Phosphides Enabling Rapid, Reversible Alkali-Metal Ion Storage. ACS Nano, 2021, 15, 13486-13494.  | 14.6 | 23        |
| 45 | Tuning Sugarâ€ƒBased Chiral and Flowerâ€ƒLike Microparticles. Small, 2021, 17, 2102938.  | 10.0 | 1         |
| 46 | Insights into the Ionic Conduction Mechanism of Quasiâ€ƒSolid Polymer Electrolytes through Multispectral Characterization. Angewandte Chemie, 2021, 133, 22854-22859.  | 2.0  | 5         |
| 47 | Designing Anionâ€ƒType Waterâ€ƒFree Zn <sup>2+</sup> Solvation Structure for Robust Zn Metal Anode. Angewandte Chemie - International Edition, 2021, 60, 23357-23364.  | 13.8 | 179       |
| 48 | Advanced Nanocelluloseâ€ƒBased Composites for Flexible Functional Energy Storage Devices. Advanced Materials, 2021, 33, e2101368.  | 21.0 | 251       |
| 49 | Designing Anionâ€ƒType Waterâ€ƒFree Zn <sup>2+</sup> Solvation Structure for Robust Zn Metal Anode. Angewandte Chemie, 2021, 133, 23545-23552.   | 2.0  | 57        |
| 50 | Tuning Sugarâ€ƒBased Chiral and Flowerâ€ƒLike Microparticles (Small 38/2021). Small, 2021, 17, 2170198.  | 10.0 | 0         |
| 51 | Insights into the Ionic Conduction Mechanism of Quasiâ€ƒSolid Polymer Electrolytes through Multispectral Characterization. Angewandte Chemie - International Edition, 2021, 60, 22672-22677.                                 | 13.8 | 72        |
| 52 | Changes and release risk of typical pharmaceuticals and personal care products in sewage sludge during hydrothermal carbonization process. Chemosphere, 2021, 284, 131313.   | 8.2  | 9         |
| 53 | Strategies for boosting carbon electrocatalysts for the oxygen reduction reaction in non-aqueous metalâ€ƒair battery systems. Journal of Materials Chemistry A, 2021, 9, 6671-6693.  | 10.3 | 37        |
| 54 | In Situ Polymerized Conjugated Poly(pyreneâ€ƒ4,5,9,10â€ƒtetraone)/Carbon Nanotubes Composites for Highâ€ƒPerformance Cathode of Sodium Batteries. Advanced Energy Materials, 2021, 11, 2002917.                              | 19.5 | 69        |

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|----|---|------|-----------|
| 55 | Temperature-Responsive, Manipulable Cavitory Hydrogel Containers by Macroscopic Spatial Surface-Interior Separation. ACS Applied Materials & Interfaces, 2021, 13, 1573-1580.   | 8.0  | 6         |
| 56 | 3D Hollow Xerogels with Ordered Cellulose Nanocrystals for Tailored Mechanical Properties. Small, 2021, 17, e2104702.   | 10.0 | 7         |
| 57 | 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        |
| 58 | Mannosylated fluorescent cellulose-based glycopolymers for stable uniform nanoparticles. Journal of Polymer Science, 2021, 59, 170-181.   | 3.8  | 2         |
| 59 | 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        |
| 60 | Electrochemically Derived Graphene-Like Carbon Film as a Superb Substrate for High-Performance Aqueous Zn-Ion Batteries. Advanced Functional Materials, 2020, 30, 1907120.  | 14.9 | 78        |
| 61 | 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       |
| 62 | Thermoresponsive polymers and their biomedical application in tissue engineering – a review. Journal of Materials Chemistry B, 2020, 8, 607-628.  | 5.8  | 237       |
| 63 | 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        |
| 64 | Proton Inserted Manganese Dioxides as a Reversible Cathode for Aqueous Zn-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 319-327.  | 5.1  | 44        |
| 65 | 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        |
| 66 | Featuring surface sodium storage properties of confined MoS <sub>2</sub> /bacterial cellulose-derived carbon nanofibers anode. Applied Surface Science, 2020, 530, 147261.  | 6.1  | 13        |
| 67 | Room-Temperature Flexible Quasi-Solid-State Rechargeable Na <sub>2</sub> O Batteries. ACS Central Science, 2020, 6, 1955-1963.  | 11.3 | 25        |
| 68 | Multifunctionalities of Graphene for Exploiting a Facile Conversion Reaction Route of Perovskite CoSnO <sub>3</sub> for Highly Reversible Na Ion Storage. Journal of Physical Chemistry Letters, 2020, 11, 7988-7995. | 4.6  | 5         |
| 69 | Modulating electrolyte structure for ultralow temperature aqueous zinc batteries. Nature Communications, 2020, 11, 4463.  | 12.8 | 431       |
| 70 | Designing Hybrid Chiral Photonic Films with Circularly Polarized Room-Temperature Phosphorescence. ACS Nano, 2020, 14, 11130-11139.   | 14.6 | 130       |
| 71 | A Universal Graphene Quantum Dot Tethering Design Strategy to Synthesize Single-Atom Catalysts. Angewandte Chemie - International Edition, 2020, 59, 21885-21889.   | 13.8 | 79        |
| 72 | A Universal Graphene Quantum Dot Tethering Design Strategy to Synthesize Single-Atom Catalysts. Angewandte Chemie, 2020, 132, 22069-22073.  | 2.0  | 9         |

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|----|--|------|-----------|
| 73 | Structural Colors by Synergistic Birefringence and Surface Plasmon Resonance. ACS Nano, 2020, 14, 16832-16839.   | 14.6 | 26        |
| 74 | In-situ growth poly(N-methylaniline) coating on sulfur cathode for lithium-sulfur battery. Journal of Electroanalytical Chemistry, 2020, 871, 114312.  | 3.8  | 17        |
| 75 | 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        |
| 76 | A 3D Hydroxylated MXene/Carbon Nanotubes Composite as a Scaffold for Dendrite-free Sodium-Metal Electrodes. Angewandte Chemie - International Edition, 2020, 59, 16705-16711.                          | 13.8 | 138       |
| 77 | A 3D Hydroxylated MXene/Carbon Nanotubes Composite as a Scaffold for Dendrite-free Sodium-Metal Electrodes. Angewandte Chemie, 2020, 132, 16848.   | 2.0  | 11        |
| 78 | Electrodeposition Accelerates Metal-Based Batteries. Joule, 2020, 4, 10-11.  | 24.0 | 36        |
| 79 | Molecular Design Strategy for High-Redox-Potential and Poorly Soluble n-Type Phenazine Derivatives as Cathode Materials for Lithium Batteries. ChemSusChem, 2020, 13, 2337-2344.                       | 6.8  | 35        |
| 80 | Self-assembled $\gamma$ -MnO <sub>2</sub> urchin-like microspheres as a high-performance cathode for aqueous Zn-ion batteries. Science China Materials, 2020, 63, 1196-1204.                           | 6.3  | 44        |
| 81 | 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        |
| 82 | Highly Reversible and Rapid Sodium Storage in GeP <sub>3</sub> with Synergistic Effect from Outside-In Optimization. ACS Nano, 2020, 14, 4352-4365.  | 14.6 | 31        |
| 83 | Modular Nanocomposite Films with Tunable Physical Organization of Cellulose Nanocrystals for Photonic Encryption. Advanced Optical Materials, 2020, 8, 2000547.  | 7.3  | 23        |
| 84 | Copper(I)-catalyzed azide-alkyne cycloaddition-assisted polymerization of linear glucose-derived copolymers. Journal of Polymer Science, 2020, 58, 1535-1543.  | 3.8  | 5         |
| 85 | Thermoresponsive Water Transportation in Dually Electrostatically Crosslinked Nanocomposite Hydrogels. Macromolecular Rapid Communications, 2019, 40, e1900317.  | 3.9  | 4         |
| 86 | Salt-controlled dissolution in pigment cathode for high-capacity and long-life magnesium organic batteries. Nano Energy, 2019, 65, 103902.   | 16.0 | 49        |
| 87 | The release and earthworm bioaccumulation of endogenous hexabromocyclododecanes (HBCDDs) from expanded polystyrene foam microparticles. Environmental Pollution, 2019, 255, 113163.                    | 7.5  | 36        |
| 88 | Interfacial Synthesis of Cellulose-Derived Solvent-Responsive Nanoparticles via Schiff Base Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 16595-16603.                                 | 6.7  | 24        |
| 89 | Ultrathin carbon-coated FeS <sub>2</sub> nanooctahedra for sodium storage with long cycling stability. Inorganic Chemistry Frontiers, 2019, 6, 459-464.  | 6.0  | 21        |
| 90 | 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        |

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|-----|---|------|-----------|
| 91  | Conjugated Nitroxide Radical Polymers: Synthesis and Application in Flexible Energy Storage Devices. ACS Applied Materials & Interfaces, 2019, 11, 7096-7103.   | 8.0  | 32        |
| 92  | Polyethylenimine Expanded Graphite Oxide Enables High Sulfur Loading and Long-Term Stability of Lithium-Sulfur Batteries. Small, 2019, 15, e1804578.  | 10.0 | 30        |
| 93  | 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        |
| 94  | Dialdehyde Cellulose as a Bio-Based Robust Adhesive for Wood Bonding. ACS Sustainable Chemistry and Engineering, 2019, 7, 10452-10459.  | 6.7  | 86        |
| 95  | Pseudocapacitive Behavior and Ultrafast Kinetics from Solvated Ion Cointercalation into MoS <sub>2</sub> for Its Alkali Ion Storage. ACS Applied Energy Materials, 2019, 2, 3726-3735.                    | 5.1  | 9         |
| 96  | High-Voltage Charging-Induced Strain, Heterogeneity, and Micro-Cracks in Secondary Particles of a Nickel-Rich Layered Cathode Material. Advanced Functional Materials, 2019, 29, 1900247.                 | 14.9 | 219       |
| 97  | Fabrication of a hydrazone-linked covalent organic framework-bound capillary column for gas chromatography separation. Separation Science Plus, 2019, 2, 120-128.   | 0.6  | 14        |
| 98  | 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        |
| 99  | Multi-Responsive Bilayer Hydrogel Actuators with Programmable and Precisely Tunable Motions. Macromolecular Chemistry and Physics, 2019, 220, 1800562.  | 2.2  | 37        |
| 100 | MoSe <sub>2</sub> nanosheets embedded in mesoporous carbon as anode materials for sodium ion batteries. Ionics, 2019, 25, 3143-3152.  | 2.4  | 10        |
| 101 | Liquid-Behaviors-Assisted Fabrication of Multidimensional Birefringent Materials from Dynamic Hybrid Hydrogels. ACS Nano, 2019, 13, 3867-3874.  | 14.6 | 54        |
| 102 | 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        |
| 103 | An unprecedented 2D covalent organic framework with an htb net topology. Chemical Communications, 2019, 55, 13454-13457.  | 4.1  | 26        |
| 104 | Manganese based layered oxides with modulated electronic and thermodynamic properties for sodium ion batteries. Nature Communications, 2019, 10, 5203.  | 12.8 | 202       |
| 105 | Efficient synthesis of organosoluble 6-azido-6-deoxy-2,3-O-trimethylsilyl cellulose for click reactions. Carbohydrate Polymers, 2019, 206, 174-178.   | 10.2 | 5         |
| 106 | Remarkable Enhancement in Sodium-Ion Kinetics of NaFe <sub>2</sub> (CN) <sub>6</sub> by Chemical Bonding with Graphene. Small Methods, 2018, 2, 1700346.  | 8.6  | 40        |
| 107 | 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.                           | 19.5 | 104       |
| 108 | Dually Heterogeneous Hydrogels via Dynamic and Supramolecular Cross-Links Tuning Discontinuous Spatial Ruptures. ACS Sustainable Chemistry and Engineering, 2018, 6, 4294-4301.                           | 6.7  | 6         |



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|-----|--|------|-----------|
| 109 | Interfacial molecular array behaviors of mixed surfactant systems based on sodium laurylglutamate and the effect on the foam properties. Journal of Dispersion Science and Technology, 2018, 39, 1427-1434.                                  | 2.4  | 8         |
| 110 | Fe/Fe <sub>3</sub> C@graphitic carbon shell embedded in carbon nanotubes derived from Prussian blue as cathodes for Li <sup>+</sup> /O <sub>2</sub> batteries. Materials Chemistry Frontiers, 2018, 2, 376-384.                              | 5.9  | 39        |
| 111 | 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        |
| 112 | Recent Developments on and Prospects for Electrode Materials with Hierarchical Structures for Lithium-Ion Batteries. Advanced Energy Materials, 2018, 8, 1701415.  | 19.5 | 436       |
| 113 | Helical Fibers via Evaporation-Driven Self-Assembly of Surface-Acylated Cellulose Nanowhiskers. Angewandte Chemie, 2018, 130, 16561-16566.   | 2.0  | 13        |
| 114 | Helical Fibers via Evaporation-Driven Self-Assembly of Surface-Acylated Cellulose Nanowhiskers. Angewandte Chemie - International Edition, 2018, 57, 16323-16328.  | 13.8 | 17        |
| 115 | Impact Dynamics of Aqueous Polymer Droplets on Superhydrophobic Surfaces. Macromolecules, 2018, 51, 7817-7827.   | 4.8  | 50        |
| 116 | All Carbon Dual Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 35978-35983.  | 8.0  | 93        |
| 117 | Glycosylated cellulose derivatives with regioselective distributions of pendant glucose moieties. Carbohydrate Polymers, 2018, 196, 154-161.   | 10.2 | 2         |
| 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 | Interlayer-Spacing-Regulated VOPO <sub>4</sub> Nanosheets with Fast Kinetics for High-Capacity and Durable Rechargeable Magnesium Batteries. Advanced Materials, 2018, 30, e1801984.   | 21.0 | 171       |
| 120 | Triclinic Off-Stoichiometric Na <sub>3.12</sub> Mn <sub>2.44</sub> (P <sub>2</sub> O <sub>7</sub> ) <sub>2</sub> /C Cathode Materials for High-Energy/Power Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 24564-24572. | 8.0  | 41        |
| 121 | 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        |
| 122 | Preparation of hydrogels with uniform and gradient chemical structures using dialdehyde cellulose and diamine by aerating ammonia gas. Frontiers of Chemical Science and Engineering, 2018, 12, 383-389.                                     | 4.4  | 6         |
| 123 | Efficient, Self-Terminating Isolation of Cellulose Nanocrystals through Periodate Oxidation in Pickering Emulsions. ChemSusChem, 2018, 11, 3581-3585.  | 6.8  | 20        |
| 124 | Stable Carbon-Selenium Bonds for Enhanced Performance in Tremella-Like 2D Chalcogenide Battery Anode. Advanced Energy Materials, 2018, 8, 1800927.   | 19.5 | 68        |
| 125 | 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        |
| 126 | The impact of the molecular weight on the electrochemical properties of poly(TEMPO methacrylate). Polymer Chemistry, 2017, 8, 1815-1823.   | 3.9  | 78        |



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|-----|--|------|-----------|
| 127 | Construction of Four Coordination Polymers based on 2-[4-(Pyridine-4-yl)phenyl]-1 <i>H</i> -imidazole-4,5-dicarboxylic Acid. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 593-600.                               | 1.2  | 8         |
| 128 | Molecular insight into the micro-behaviors of CH <sub>4</sub> and CO <sub>2</sub> in montmorillonite slit-nanopores. Molecular Simulation, 2017, 43, 1004-1011.  | 2.0  | 38        |
| 129 | Formation of Uniform Multi-Stimuli-Responsive and Multiblock Hydrogels from Dialdehyde Cellulose. ACS Sustainable Chemistry and Engineering, 2017, 5, 5313-5319.   | 6.7  | 52        |
| 130 | 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        |
| 131 | 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       |
| 132 | Robust Heterogeneous Hydrogels with Dynamic Nanocrystal-Polymer Interface. Macromolecular Rapid Communications, 2017, 38, 1600810.   | 3.9  | 8         |
| 133 | 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        |
| 134 | Probing the Binding Interfaces of Histone-Aptamer by Photo Cross-Linking Mass Spectrometry. ACS Chemical Biology, 2017, 12, 57-62.   | 3.4  | 6         |
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| 136 | Thermoreversible Self-Assembly of Perfluorinated Core-Shell Nanoparticles in Dry State. Advanced Materials, 2017, 29, 1702473.   | 21.0 | 19        |
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