

# Yitai Qian

## List of Publications by Year in descending order

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422  
papers

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all docs

426  
docs citations

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times ranked

20596  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Molten-LiCl induced thermochemical prelithiation of SiOx: Regulating the active Si/O ratio for high initial Coulombic efficiency. Nano Research, 2022, 15, 230-237.  | 10.4 | 31        |
| 2  | A Friendly Soluble Protic Additive Enabling High Discharge Capability and Stabilizing Li Metal Anodes in Li <sub>2</sub> O Batteries. Advanced Functional Materials, 2022, 32, 2106984.                                    | 14.9 | 13        |
| 3  | Rational Design of Tungsten Selenide @ N-Doped Carbon Nanotube for High-Stable Potassium-Ion Batteries. Small, 2022, 18, e2104363.   | 10.0 | 20        |
| 4  | Single-atom catalyst cathodes for lithium-oxygen batteries: a review. Nano Futures, 2022, 6, 012002.   | 2.2  | 4         |
| 5  | Zero-Strain Structure for Efficient Potassium Storage: Nitrogen-Enriched Carbon Dual-Confinement CoP Composite. Advanced Energy Materials, 2022, 12, 2103341.  | 19.5 | 26        |
| 6  | Understanding electrolyte salt chemistry for advanced potassium storage performances of transition-metal sulfides. , 2022, 4, 332-345.   |      | 10        |
| 7  | Petroleum coke derived porous carbon/NiCoP with efficient reviving catalytic and adsorptive activity as sulfur host for high performance lithium-sulfur batteries. Nano Research, 2022, 15, 4058-4067.                     | 10.4 | 10        |
| 8  | Unravelling binder chemistry in sodium/potassium ion batteries for superior electrochemical performances. Journal of Materials Chemistry A, 2022, 10, 4060-4067.   | 10.3 | 25        |
| 9  | Cation-Dependent Hydrogel Template-Activation Strategy: Constructing 3D Anode and High Specific Surface Cathode for Dual-Carbon Potassium-Ion Hybrid Capacitor. Small, 2022, 18, e2106712.                                 | 10.0 | 7         |
| 10 | One-Step, Vacuum-Assisted Construction of Micrometer-Sized Nanoporous Silicon Confined by Uniform Two-Dimensional N-Doped Carbon toward Advanced Li Ion and MXene-Based Li Metal Batteries. ACS Nano, 2022, 16, 4560-4577. | 14.6 | 75        |
| 11 | Hierarchical Ion/Electron Networks Enable Efficient Red Phosphorus Anode with High Mass Loading for Sodium Ion Batteries. Advanced Functional Materials, 2022, 32, .   | 14.9 | 21        |
| 12 | Space-confined growth of Bi <sub>2</sub> Se <sub>3</sub> nanosheets encapsulated in N-doped carbon shell lollipop-like composite for full/half potassium-ion and lithium-ion batteries. Nano Today, 2022, 43, 101408.      | 11.9 | 30        |
| 13 | Site-Selective Adsorption on ZnF <sub>2</sub> /Ag Coated Zn for Advanced Aqueous Zinc-Metal Batteries at Low Temperature. Nano Letters, 2022, 22, 1750-1758.   | 9.1  | 95        |
| 14 | MXenes and their derivatives for advanced aqueous rechargeable batteries. Materials Today, 2022, 52, 225-249.  | 14.2 | 39        |
| 15 | Bimetallic Bi-Sn microspheres as high initial coulombic efficiency and long lifespan anodes for sodium-ion batteries. Chemical Communications, 2022, 58, 5140-5143.  | 4.1  | 15        |
| 16 | Intercalation of organics into layered structures enables superior interface compatibility and fast charge diffusion for dendrite-free Zn anodes. Energy and Environmental Science, 2022, 15, 1682-1693.                   | 30.8 | 105       |
| 17 | Iron Selenide-Based Heterojunction Construction and Defect Engineering for Fast Potassium/Sodium-Ion Storage. Small, 2022, 18, e2107252.   | 10.0 | 46        |
| 18 | Controlled Tin Oxide Nanoparticles Encapsulated in N-Doped Carbon Nanofibers for Superior Lithium-Ion Storage. ACS Applied Energy Materials, 2022, 5, 1840-1848.   | 5.1  | 4         |

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|----|---|------|-----------|
| 19 | Manipulating Electrocatalytic Polysulfide Redox Kinetics by 1D Core-Shell Like Composite for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .   | 19.5 | 47        |
| 20 | Bipolar electrode architecture enables high-energy aqueous rechargeable sodium ion battery. <i>Nano Research</i> , 2022, 15, 5072-5080.   | 10.4 | 7         |
| 21 | Niobium Diboride Nanoparticles Accelerating Polysulfide Conversion and Directing $\text{Li}_2\text{S}$ Nucleation Enabled High Areal Capacity Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2022, 16, 4947-4960.                                | 14.6 | 88        |
| 22 | Highly Reversible Zn Metal Anodes Enabled by Freestanding, Lightweight, and Zincophilic MXene/Nanoporous Oxide Heterostructure Engineered Separator for Flexible Zn-MnO <sub>2</sub> Batteries. <i>ACS Nano</i> , 2022, 16, 6755-6770.        | 14.6 | 103       |
| 23 | Towards High-Performance Aqueous Sodium Ion Batteries: Constructing Hollow $\text{NaTi}_2(\text{PO}_4)_3$ @C Nanocube Anode with Zn Metal-Induced Pre-Sodiation and Deep Eutectic Electrolyte. <i>Advanced Energy Materials</i> , 2022, 12, . | 19.5 | 30        |
| 24 | Highly reversible Mg metal anodes enabled by interfacial liquid metal engineering for high-energy Mg-S batteries. <i>Energy Storage Materials</i> , 2022, 48, 447-457.  | 18.0 | 46        |
| 25 | Highly reversible and safe lithium metal batteries enabled by Non-flammable All-fluorinated carbonate electrolyte conjugated with 3D flexible MXene-based lithium anode. <i>Chemical Engineering Journal</i> , 2022, 440, 135818.             | 12.7 | 23        |
| 26 | Chemical Buffer Layer Enabled Highly Reversible Zn Anode for Deeply Discharging and Long-Life Zn-Air Battery. <i>Small</i> , 2022, 18, e2106604.  | 10.0 | 16        |
| 27 | Synthesis of carbon nanotubes-supported porous silicon microparticles in low-temperature molten salt for high-performance Li-ion battery anodes. <i>Nano Research</i> , 2022, 15, 6184-6191.  | 10.4 | 22        |
| 28 | Review of room-temperature liquid metals for advanced metal anodes in rechargeable batteries. <i>Energy Storage Materials</i> , 2022, 50, 473-494.  | 18.0 | 35        |
| 29 | Constructing Reactive Micro-Environment in Basal Plane of $\text{MoS}_2$ for pH-Universal Hydrogen Evolution Catalysis. <i>Small</i> , 2022, 18, .  | 10.0 | 21        |
| 30 | Electron-redistributed Ni-Co oxide nanoarrays as an ORR/OER bifunctional catalyst for low overpotential and long lifespan $\text{Li}_2\text{O}$ batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 14613-14621.                   | 10.3 | 12        |
| 31 | MXenes for advanced separator in rechargeable batteries. <i>Materials Today</i> , 2022, 57, 146-179.  | 14.2 | 38        |
| 32 | One-pot synthesis of uniform $\text{MoSe}_2$ nanoparticles as high performance anode materials for lithium/sodium ion batteries. <i>Journal of Alloys and Compounds</i> , 2022, 922, 166306.  | 5.5  | 15        |
| 33 | Stable and dendrite-free lithium metal anodes enabled by carbon paper incorporated with ultrafine lithiophilic $\text{TiO}_2$ derived from MXene and carbon dioxide. <i>Chemical Engineering Journal</i> , 2021, 406, 126836.                 | 12.7 | 45        |
| 34 | Improved Na storage and Coulombic efficiency in $\text{TiP}_2\text{O}_7$ @C microflowers for sodium ion batteries. <i>Nano Research</i> , 2021, 14, 139-147.  | 10.4 | 18        |
| 35 | Interfacial passivation by room-temperature liquid metal enabling stable 5 V-class lithium-metal batteries in commercial carbonate-based electrolyte. <i>Energy Storage Materials</i> , 2021, 34, 12-21.                                      | 18.0 | 85        |
| 36 | 2D interspace confined growth of ultrathin $\text{MoS}_2$ -intercalated graphite hetero-layers for high-rate Li/K storage. <i>Nano Research</i> , 2021, 14, 1061-1068.  | 10.4 | 19        |

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|----|--|------|-----------|
| 37 | Revealing the Double-Edged Behaviors of Heteroatom Sulfur in Carbonaceous Materials for Balancing K <sup>+</sup> Storage Capacity and Stability. <i>Advanced Functional Materials</i> , 2021, 31, 2006875.     | 14.9 | 42        |
| 38 | Recent Advances and Perspectives of Zn-Metal Free "Rocking Chair" Type Zn-Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2002529.   | 19.5 | 111       |
| 39 | Quantum-Matter Bi/TiO <sub>2</sub> Heterostructure Embedded in N-Doped Porous Carbon Nanosheets for Enhanced Sodium Storage. <i>Small Structures</i> , 2021, 2, 2000085.                                       | 12.0 | 77        |
| 40 | Hierarchical interlayer-expanded MoSe <sub>2</sub> /N-C nanorods for high-rate and long-life sodium and potassium-ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1271-1278.                    | 6.0  | 22        |
| 41 | Carbon coated SiO nanoparticles embedded in hierarchical porous N-doped carbon nanosheets for enhanced lithium storage. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 4282-4290.                             | 6.0  | 18        |
| 42 | Yolk-shell structured CoSe <sub>2</sub> /C nanospheres as multifunctional anode materials for both full/half sodium-ion and full/half potassium-ion batteries. <i>Nanoscale</i> , 2021, 13, 10385-10392.       | 5.6  | 36        |
| 43 | A porous polycrystalline NiCo <sub>2</sub> P <sub>x</sub> as a highly efficient host for sulfur cathodes in Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23149-23156.                    | 10.3 | 19        |
| 44 | An aqueous rechargeable lithium ion battery with long cycle life and overcharge self-protection. <i>Materials Chemistry Frontiers</i> , 2021, 5, 2749-2757.  | 5.9  | 9         |
| 45 | Rocking Chair Batteries: Recent Advances and Perspectives of Zn-Metal Free "Rocking Chair" Type Zn-Ion Batteries ( <i>Adv. Energy Mater.</i> 5/2021). <i>Advanced Energy Materials</i> , 2021, 11, 2170023.    | 19.5 | 3         |
| 46 | Applications of MoS <sub>2</sub> in Li-O <sub>2</sub> Batteries: Development and Challenges. <i>Energy &amp; Fuels</i> , 2021, 35, 5613-5626.  | 5.1  | 20        |
| 47 | Dandelion-Like Bi <sub>2</sub> S <sub>3</sub> /rGO hierarchical microspheres as high-performance anodes for potassium-ion and half/full sodium-ion batteries. <i>Nano Research</i> , 2021, 14, 4696-4703.      | 10.4 | 39        |
| 48 | Dealloying: An effective method for scalable fabrication of 0D, 1D, 2D, 3D materials and its application in energy storage. <i>Nano Today</i> , 2021, 37, 101094.  | 11.9 | 93        |
| 49 | Molten Salt Derived "Graphene-Like" Carbon Nanosheets Wrapped "SiO <sub>x</sub> /Carbon Submicrospheres with Enhanced Lithium Storage". <i>Chinese Journal of Chemistry</i> , 2021, 39, 1233-1239.             | 4.9  | 9         |
| 50 | Hydrothermal "Disproportionation" of Biomass into Oriented Carbon Microsphere Anode and 3D Porous Carbon Cathode for Potassium Ion Hybrid Capacitor. <i>Advanced Functional Materials</i> , 2021, 31, 2103115. | 14.9 | 49        |
| 51 | Revealing Quasi-1D Volume Expansion in Na/K-Ion Battery Anodes: A Case Study of Sb <sub>2</sub> O <sub>3</sub> Microbelts. <i>CCS Chemistry</i> , 2021, 3, 1306-1315.  | 7.8  | 17        |
| 52 | Stable Aqueous Anode-Free Zinc Batteries Enabled by Interfacial Engineering. <i>Advanced Functional Materials</i> , 2021, 31, 2101886.   | 14.9 | 162       |
| 53 | High-Voltage and Super-Stable Aqueous Sodium-Zinc Hybrid Ion Batteries Enabled by Double Solvation Structures in Concentrated Electrolyte. <i>Small Methods</i> , 2021, 5, e2100418.                           | 8.6  | 22        |
| 54 | Coordinatively and Spatially Confining High-Loading Atomic Sb in Sulfur-Rich 2D Carbon Matrix for Fast K <sup>+</sup> Diffusion and Storage. , 2021, 3, 790-798.   |      | 10        |

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|----|---|------|-----------|
| 55 | Design of safe, long-cycling and high-energy lithium metal anodes in all working conditions: Progress, challenges and perspectives. <i>Energy Storage Materials</i> , 2021, 38, 157-189.  | 18.0 | 52        |
| 56 | Scalable and Controllable Synthesis of Interface-Engineered Nanoporous Host for Dendrite-Free and High Rate Zinc Metal Batteries. <i>ACS Nano</i> , 2021, 15, 11828-11842.  | 14.6 | 140       |
| 57 | Construction and electrochemical mechanism investigation of hierarchical core-shell like composite as high performance anode for potassium ion batteries. <i>Nano Research</i> , 2021, 14, 3552-3561.                           | 10.4 | 21        |
| 58 | Rational Design of Sulfur-Doped Three-Dimensional $\text{Ti}_3\text{C}_2\text{Tx}$ MXene/ZnS Heterostructure as Multifunctional Protective Layer for Dendrite-Free Zinc-Ion Batteries. <i>ACS Nano</i> , 2021, 15, 15259-15273. | 14.6 | 167       |
| 59 | Covalent Organic Frameworks and Their Derivatives for Better Metal Anodes in Rechargeable Batteries. <i>ACS Nano</i> , 2021, 15, 12741-12767.   | 14.6 | 71        |
| 60 | Reversible zinc-based anodes enabled by zincophilic antimony engineered MXene for stable and dendrite-free aqueous zinc batteries. <i>Energy Storage Materials</i> , 2021, 41, 343-353.   | 18.0 | 145       |
| 61 | Regulating polysulfide intermediates by ultrathin Co-Bi nanosheet electrocatalyst in lithium-sulfur batteries. <i>Nano Today</i> , 2021, 40, 101246.  | 11.9 | 34        |
| 62 | Ultra-long-life and highly reversible Zn metal anodes enabled by a desolvation and deanionization interface layer. <i>Energy and Environmental Science</i> , 2021, 14, 3120-3129.   | 30.8 | 250       |
| 63 | A large format aqueous rechargeable $\text{LiMn}_2\text{O}_4/\text{Zn}$ battery with high energy density and long cycle life. <i>Science China Materials</i> , 2021, 64, 783-788.   | 6.3  | 12        |
| 64 | Rational fabrication of $\text{CoS}_2/\text{Co}_4\text{S}_3@N$ -doped carbon microspheres as excellent cycling performance anode for half/full sodium ion batteries. <i>Energy Storage Materials</i> , 2020, 25, 679-686.       | 18.0 | 111       |
| 65 | Self-wrinkled graphene as a mechanical buffer: A rational design to boost the K-ion storage performance of $\text{Sb}_2\text{Se}_3$ nanoparticles. <i>Chemical Engineering Journal</i> , 2020, 379, 122352.                     | 12.7 | 49        |
| 66 | Isotropic Li nucleation and growth achieved by an amorphous liquid metal nucleation seed on MXene framework for dendrite-free Li metal anode. <i>Energy Storage Materials</i> , 2020, 26, 223-233.                              | 18.0 | 100       |
| 67 | Rational design of polar/nonpolar mediators toward efficient sulfur fixation and enhanced conductivity. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1010-1051.   | 10.3 | 32        |
| 68 | Porosity and Graphitization Controlled Fabrication of Nanoporous Silicon@Carbon for Lithium Storage and Its Conjugation with MXene for Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2020, 30, 1908721.           | 14.9 | 159       |
| 69 | High-Spin Sulfur-Mediated Phosphorous Activation Enables Safe and Fast Phosphorus Anodes for Sodium-Ion Batteries. <i>CheM</i> , 2020, 6, 221-233.  | 11.7 | 43        |
| 70 | N-induced lattice contraction generally boosts the hydrogen evolution catalysis of P-rich metal phosphides. <i>Science Advances</i> , 2020, 6, eaaw8113.  | 10.3 | 211       |
| 71 | Orbital-regulated interfacial electronic coupling endows $\text{Ni}_3\text{N}$ with superior catalytic surface for hydrogen evolution reaction. <i>Science China Chemistry</i> , 2020, 63, 1563-1569.                           | 8.2  | 22        |
| 72 | Recently advances and perspectives of anode-free rechargeable batteries. <i>Nano Energy</i> , 2020, 78, 105344.   | 16.0 | 108       |

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|----|---|------|-----------|
| 73 | Two-Dimensional Silicon/Carbon from Commercial Alloy and CO <sub>2</sub> for Lithium Storage and Flexible Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene-Based Lithium-Metal Batteries. ACS Nano, 2020, 14, 17574-17588. | 14.6 | 108       |
| 74 | Guiding Smooth Li Plating and Stripping by a Spherical Island Model for Lithium Metal Anodes. ACS Applied Materials & Interfaces, 2020, 12, 38098-38105.  | 8.0  | 17        |
| 75 | Recent advances and perspectives of 2D silicon: Synthesis and application for energy storage and conversion. Energy Storage Materials, 2020, 32, 115-150.   | 18.0 | 74        |
| 76 | Ultrahigh-Areal-Capacity Battery Anodes Enabled by Free-Standing Vanadium Nitride@N-Doped Carbon/Graphene Architecture. ACS Applied Materials & Interfaces, 2020, 12, 49607-49616.  | 8.0  | 24        |
| 77 | Nanoribbon Superstructures of Graphene Nanocages for Efficient Electrocatalytic Hydrogen Evolution. Nano Letters, 2020, 20, 7342-7349.  | 9.1  | 30        |
| 78 | Defect engineering on carbon black for accelerated Li-S chemistry. Nano Research, 2020, 13, 3315-3320.  | 10.4 | 52        |
| 79 | Aqueous Rechargeable Li <sup>+</sup> /Na <sup>+</sup> Hybrid Ion Battery with High Energy Density and Long Cycle Life. Small, 2020, 16, e2003585.   | 10.0 | 16        |
| 80 | Porous lithium cobalt oxide fabricated from metal-organic frameworks as a high-rate cathode for lithium-ion batteries. RSC Advances, 2020, 10, 31889-31893.   | 3.6  | 4         |
| 81 | NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Solid-State Electrolyte Protection Layer on Zn Metal Anode for Superior Long-Life Aqueous Zinc-Ion Batteries. Advanced Functional Materials, 2020, 30, 2004885.             | 14.9 | 115       |
| 82 | Recent Advances of Emerging 2D MXene for Stable and Dendrite-Free Metal Anodes. Advanced Functional Materials, 2020, 30, 2004613.   | 14.9 | 140       |
| 83 | Phosphorus-doped hard carbon with controlled active groups and microstructure for high-performance sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 20486-20492.  | 10.3 | 33        |
| 84 | Kirkendall effect modulated hollow red phosphorus nanospheres for high performance sodium-ion battery anodes. Chemical Communications, 2020, 56, 11795-11798.   | 4.1  | 17        |
| 85 | Chemical fixation of CO <sub>2</sub> on activated Si: Producing graphitic carbon-stabilized Si particles for Li-storage. Energy Storage Materials, 2020, 31, 36-43.   | 18.0 | 11        |
| 86 | N-Doped carbon nanotubes decorated with Fe/Ni sites to stabilize lithium metal anodes. Inorganic Chemistry Frontiers, 2020, 7, 2747-2752.   | 6.0  | 12        |
| 87 | A High-Energy and Long-Life Aqueous Zn/Birnessite Battery via Reversible Water and Zn <sup>2+</sup> Coinsertion. Small, 2020, 16, e2001228.   | 10.0 | 75        |
| 88 | Heteroatom-doped 3D porous carbon architectures for highly stable aqueous zinc metal batteries and non-aqueous lithium metal batteries. Chemical Engineering Journal, 2020, 400, 125843.                                      | 12.7 | 115       |
| 89 | Boosting Zinc-Ion Storage Capability by Effectively Suppressing Vanadium Dissolution Based on Robust Layered Barium Vanadate. Nano Letters, 2020, 20, 2899-2906.  | 9.1  | 208       |
| 90 | Hierarchical Fusiform Microrods Constructed by Parallely Arranged Nanoplatelets of LiCoO <sub>2</sub> Material with Ultrahigh Rate Performance. ACS Applied Materials & Interfaces, 2020, 12, 17376-17384.                    | 8.0  | 9         |

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|-----|---|------|-----------|
| 91  | Promoting spherical epitaxial deposition of solid sulfides for high-capacity Li-S batteries. Journal of Materials Chemistry A, 2020, 8, 7100-7108.  | 10.3 | 10        |
| 92  | Conductive cobalt doped niobium nitride porous spheres as an efficient polysulfide convertor for advanced lithium-sulfur batteries. Journal of Materials Chemistry A, 2020, 8, 6276-6282.                               | 10.3 | 58        |
| 93  | Electrolyte solvation structure manipulation enables safe and stable aqueous sodium ion batteries. Journal of Materials Chemistry A, 2020, 8, 14190-14197.  | 10.3 | 42        |
| 94  | Dual taming of polysulfides by phosphorus-doped carbon for improving electrochemical performances of lithium-sulfur battery. Electrochimica Acta, 2020, 354, 136648.  | 5.2  | 40        |
| 95  | Nanoporous Si@Carbon: Porosity and Graphitization Controlled Fabrication of Nanoporous Silicon@Carbon for Lithium Storage and Its Conjugation with MXene for Lithium-Metal Anode (Adv.) Tj ETQq1 1 0.4784314 2gBT /Over | 10.4 | 61        |
| 96  | Carbon-coated mesoporous Co <sub>9</sub> S <sub>8</sub> nanoparticles on reduced graphene oxide as a long-life and high-rate anode material for potassium-ion batteries. Nano Research, 2020, 13, 802-809.              | 10.4 | 61        |
| 97  | Construction of hierarchical MoSe <sub>2</sub> @C hollow nanospheres for efficient lithium/sodium ion storage. Inorganic Chemistry Frontiers, 2020, 7, 1691-1698.   | 6.0  | 22        |
| 98  | Silicothermic reduction reaction for fabricating interconnected Si-Ge nanocrystals with fast and stable Li-storage. Journal of Materials Chemistry A, 2020, 8, 6597-6606.   | 10.3 | 19        |
| 99  | Formation of Solid-Electrolyte Interfaces in Aqueous Electrolytes by Altering Cation-Solvation Shell Structure. Advanced Energy Materials, 2020, 10, 1903665.   | 19.5 | 59        |
| 100 | Stable Lithium Deposition Enabled by an Acid-Treated g-C <sub>3</sub> N <sub>4</sub> Interface Layer for a Lithium Metal Anode. ACS Applied Materials & Interfaces, 2020, 12, 11265-11272.                              | 8.0  | 24        |
| 101 | Amidation-Dominated Reassembly Strategy for Single-Atom Design/Nano-Engineering: Constructing Ni/S/C Nanotubes with Fast and Stable K-Storage. Angewandte Chemie - International Edition, 2020, 59, 6459-6465.          | 13.8 | 23        |
| 102 | Amidation-Dominated Reassembly Strategy for Single-Atom Design/Nano-Engineering: Constructing Ni/S/C Nanotubes with Fast and Stable K-Storage. Angewandte Chemie, 2020, 132, 6521-6527.                                 | 2.0  | 1         |
| 103 | ZIF-Derived Cobalt-Containing N-Doped Carbon-Coated SiO <sub>2</sub> Nanoparticles for Superior Lithium Storage. ACS Applied Materials & Interfaces, 2020, 12, 7206-7211.   | 8.0  | 43        |
| 104 | Micron-Sized Nanoporous Vanadium Pentoxide Arrays for High-Performance Gel Zinc-Ion Batteries and Potassium Batteries. Chemistry of Materials, 2020, 32, 4054-4064.   | 6.7  | 105       |
| 105 | Regulating the Interfacial Electronic Coupling of Fe <sub>2</sub> N via Orbital Steering for Hydrogen Evolution Catalysis. Advanced Materials, 2020, 32, e1904346.  | 21.0 | 86        |
| 106 | Recent advances and perspectives in stable and dendrite-free potassium metal anodes. Energy Storage Materials, 2020, 30, 206-227.   | 18.0 | 95        |
| 107 | Appropriately hydrophilic/hydrophobic cathode enables high-performance aqueous zinc-ion batteries. Energy Storage Materials, 2020, 30, 337-345.   | 18.0 | 92        |
| 108 | Edge-Plane Exposed N-Doped Carbon Nanofibers Toward Fast K-Ion Adsorption/Diffusion Kinetics for K-Ion Capacitors. CCS Chemistry, 2020, 2, 495-506.   | 7.8  | 17        |

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|-----|---|------|-----------|
| 109 | A flexible micro/nanostructured Si microsphere cross-linked by highly-elastic carbon nanotubes toward enhanced lithium ion battery anodes. <i>Energy Storage Materials</i> , 2019, 17, 93-100.                                      | 18.0 | 113       |
| 110 | An Al <sub>2</sub> O <sub>3</sub> coating layer on mesoporous Si nanospheres for stable solid electrolyte interphase and high-rate capacity for lithium ion batteries. <i>Nanoscale</i> , 2019, 11, 16781-16787.                    | 5.6  | 22        |
| 111 | Uniform Li deposition by regulating the initial nucleation barrier via a simple liquid-metal coating for a dendrite-free Li metal anode. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18861-18870.                            | 10.3 | 93        |
| 112 | Rechargeable aqueous hybrid ion batteries: developments and prospects. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18708-18734.  | 10.3 | 128       |
| 113 | Porosity controlled synthesis of nanoporous silicon by chemical dealloying as anode for high energy lithium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2019, 554, 674-681.                                    | 9.4  | 38        |
| 114 | Layered (NH <sub>4</sub> ) <sub>2</sub> V <sub>6</sub> O <sub>16</sub> ·1.5H <sub>2</sub> O nanobelts as a high-performance cathode for aqueous zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19130-19139. | 10.3 | 121       |
| 115 | In Situ Revealing the Electroactivity of Pi <sub>2</sub> O and Pi <sub>2</sub> C Bonds in Hard Carbon for High Capacity and Long Life Li/K-ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1901676.                      | 19.5 | 202       |
| 116 | Water-Induced Growth of a Highly Oriented Mesoporous Graphitic Carbon Nanospring for Fast Potassium-ion Adsorption/Intercalation Storage. <i>Angewandte Chemie</i> , 2019, 131, 18276-18283.  | 2.0  | 16        |
| 117 | Water-Induced Growth of a Highly Oriented Mesoporous Graphitic Carbon Nanospring for Fast Potassium-ion Adsorption/Intercalation Storage. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18108-18115.                 | 13.8 | 106       |
| 118 | Room-Temperature Liquid Metal Confined in MXene Paper as a Flexible, Freestanding, and Binder-Free Anode for Next-Generation Lithium-ion Batteries. <i>Small</i> , 2019, 15, e1903214.  | 10.0 | 79        |
| 119 | Scalable and Physical Synthesis of 2D Silicon from Bulk Layered Alloy for Lithium-Ion Batteries and Lithium Metal Batteries. <i>ACS Nano</i> , 2019, 13, 13690-13701.   | 14.6 | 143       |
| 120 | Co <sub>0.85</sub> Se hollow spheres constructed of ultrathin 2D mesoporous nanosheets as a novel bifunctional-electrode for supercapacitor and water splitting. <i>Nano Research</i> , 2019, 12, 2941-2946.                        | 10.4 | 25        |
| 121 | Green and tunable fabrication of graphene-like N-doped carbon on a 3D metal substrate as a binder-free anode for high-performance potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21966-21975.          | 10.3 | 48        |
| 122 | Converting Waste Polyethylene into ZnCCo <sub>3</sub> and ZnCNi <sub>3</sub> by a One-Step Thermal Reduction Process. <i>ACS Omega</i> , 2019, 4, 15729-15733.  | 3.5  | 11        |
| 123 | Passivation effect for current collectors enables high-voltage aqueous sodium ion batteries. <i>Materials Today Energy</i> , 2019, 14, 100337.  | 4.7  | 32        |
| 124 | Flexible and Free-Standing Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene@Zn Paper for Dendrite-Free Aqueous Zinc Metal Batteries and Nonaqueous Lithium Metal Batteries. <i>ACS Nano</i> , 2019, 13, 11676-11685.             | 14.6 | 420       |
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