

# Chuanxin He

## List of Publications by Year in descending order

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194  
papers

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citations

32410

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all docs

202  
docs citations

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times ranked

13220  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Pyrimidine donor induced built-in electric field between melon chains in crystalline carbon nitride to facilitate excitons dissociation. Chinese Chemical Letters, 2023, 34, 107383.                                 | 4.8  | 6         |
| 2  | Fluorine-induced dual defects in NiP <sub>2</sub> anode with robust sodium storage performance. Nano Research, 2022, 15, 2147-2156.  | 5.8  | 16        |
| 3  | A New Insight into Ultrastable Zn Metal Batteries Enabled by In Situ Built Multifunctional Metallic Interphase. Advanced Functional Materials, 2022, 32, 2109749.  | 7.8  | 113       |
| 4  | A Multiscale Strategy to Construct Cobalt Nanoparticles Confined within Hierarchical Carbon Nanofibers for Efficient CO <sub>2</sub> Electroreduction. Small, 2022, 18, e2104958.                                    | 5.2  | 4         |
| 5  | Efficient capture and conversion of polysulfides by zinc protoporphyrin framework-embedded triple-layer nanofiber separator for advanced Li-S batteries. Journal of Colloid and Interface Science, 2022, 609, 43-53. | 5.0  | 9         |
| 6  | Construction of single-atom copper sites with low coordination number for efficient CO <sub>2</sub> electroreduction to CH <sub>4</sub> . Journal of Materials Chemistry A, 2022, 10, 6187-6192.                     | 5.2  | 24        |
| 7  | Restricted diffusion preparation of fully-exposed Fe single-atom catalyst on carbon nanospheres for efficient oxygen reduction reaction. Applied Catalysis B: Environmental, 2022, 305, 121058.                      | 10.8 | 42        |
| 8  | Optical Properties of Few-Layer Ti <sub>3</sub> CN MXene: From Experimental Observations to Theoretical Calculations. ACS Nano, 2022, 16, 3059-3069.   | 7.3  | 46        |
| 9  | Band Engineering Induced Conducting 2H-Phase MoS <sub>2</sub> by Pd <sub>1-x</sub> Si <sub>x</sub> Re Sites Modification for Hydrogen Evolution Reaction. Advanced Energy Materials, 2022, 12, .                     | 10.2 | 37        |
| 10 | Novel Concept of Separator Design: Efficient Ions Transport Modulator Enabled by Dual-Interface Engineering Toward Ultra-Stable Zn Metal Anodes. Advanced Functional Materials, 2022, 32, .                          | 7.8  | 79        |
| 11 | In-Plane Charge Transport Dominates the Overall Charge Separation and Photocatalytic Activity in Crystalline Carbon Nitride. ACS Catalysis, 2022, 12, 4648-4658.   | 5.5  | 69        |
| 12 | Bio-inspired synthesis of transition-metal oxide hybrid ultrathin nanosheets for enhancing the cycling stability in lithium-ion batteries. Nano Research, 2022, 15, 5064-5071.                                       | 5.8  | 8         |
| 13 | Bimetallic two-dimensional materials for electrocatalytic oxygen evolution. Chinese Chemical Letters, 2022, 33, 3657-3671.   | 4.8  | 24        |
| 14 | Bimetallic Cobalt-Copper Nanoparticle-Decorated Hollow Carbon Nanofibers for Efficient CO <sub>2</sub> Electroreduction. Frontiers in Chemistry, 2022, 10, 904241.   | 1.8  | 3         |
| 15 | Earth-Abundant Metal-Based Electrocatalysts Promoted Anodic Reaction in Hybrid Water Electrolysis for Efficient Hydrogen Production: Recent Progress and Perspectives. Advanced Energy Materials, 2022, 12, .        | 10.2 | 87        |
| 16 | Confining ultrafine Ru clusters into TiO <sub>2</sub> lattice frameworks to yield efficient and ultrastable electrocatalysts towards practical hydrogen evolution. Chemical Engineering Journal, 2022, 446, 137248.  | 6.6  | 14        |
| 17 | Breaking the Limitation of Elevated Coulomb Interaction in Crystalline Carbon Nitride for Visible and Near-Infrared Light Photoactivity. Advanced Science, 2022, 9, .  | 5.6  | 22        |
| 18 | Cyanamide-defect-induced built-in electric field in crystalline carbon nitride for enhanced visible to near-infrared light photocatalytic activity. Inorganic Chemistry Frontiers, 2022, 9, 4320-4328.               | 3.0  | 14        |

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|----|---|------|-----------|
| 19 | Subnanometric Ru clusters with upshifted D band center improve performance for alkaline hydrogen evolution reaction. <i>Nature Communications</i> , 2022, 13, .   | 5.8  | 262       |
| 20 | Recent advances in spinel-type electrocatalysts for bifunctional oxygen reduction and oxygen evolution reactions. <i>Journal of Energy Chemistry</i> , 2021, 53, 290-302.   | 7.1  | 154       |
| 21 | Construction of cobalt-copper bimetallic oxide heterogeneous nanotubes for high-efficient and low-overpotential electrochemical CO <sub>2</sub> reduction. <i>Journal of Energy Chemistry</i> , 2021, 54, 1-6.            | 7.1  | 26        |
| 22 | Oxygen Vacancy Engineering in Titanium Dioxide for Sodium Storage. <i>Chemistry - an Asian Journal</i> , 2021, 16, 3-19.  | 1.7  | 27        |
| 23 | Understanding CO <sub>2</sub> electrochemical reduction kinetics of mixed-conducting cathodes by the electrical conductivity relaxation method. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 9646-9652.    | 3.8  | 12        |
| 24 | Ultrathin MoS <sub>2</sub> anchored on 3D carbon skeleton containing SnS quantum dots as a high-performance anode for advanced lithium ion batteries. <i>Chemical Engineering Journal</i> , 2021, 403, 126251.            | 6.6  | 105       |
| 25 | Amorphous MoS <sub>3</sub> decoration on 2D functionalized MXene as a bifunctional electrode for stable and robust lithium storage. <i>Chemical Engineering Journal</i> , 2021, 406, 126775.                              | 6.6  | 59        |
| 26 | Oxygen-doped crystalline carbon nitride with greatly extended visible-light-responsive range for photocatalytic H <sub>2</sub> generation. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119636.                 | 10.8 | 111       |
| 27 | Engineering defect-rich Fe-doped NiO coupled Ni cluster nanotube arrays with excellent oxygen evolution activity. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119809.  | 10.8 | 103       |
| 28 | Construction of cobalt oxyhydroxide nanosheets with rich oxygen vacancies as high-performance lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 453-462.                                     | 5.2  | 47        |
| 29 | Co-Mo-P carbon nanospheres derived from metal-organic frameworks as a high-performance electrocatalyst towards efficient water splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1143-1149.                   | 5.2  | 36        |
| 30 | Carbon nanotubes coupled with layered graphite to support SnTe nanodots as high-rate and ultra-stable lithium-ion battery anodes. <i>Nanoscale</i> , 2021, 13, 3782-3789.   | 2.8  | 23        |
| 31 | Reaction intermediate-mediated electrocatalyst synthesis favors specified facet and defect exposure for efficient nitrate-ammonia conversion. <i>Energy and Environmental Science</i> , 2021, 14, 4989-4997.              | 15.6 | 145       |
| 32 | Broadband Nonlinear Photonics in Few-Layer Borophene. <i>Small</i> , 2021, 17, e2006891.  | 5.2  | 42        |
| 33 | Ultra-Small 2D PbS Nanoplatelets: Liquid-Phase Exfoliation and Emerging Applications for Photo-Electrochemical Photodetectors. <i>Small</i> , 2021, 17, e2005913.   | 5.2  | 50        |
| 34 | Recent Progress in 2D Catalysts for Photocatalytic and Electrocatalytic Artificial Nitrogen Reduction to Ammonia. <i>Advanced Energy Materials</i> , 2021, 11, 2003294.   | 10.2 | 73        |
| 35 | Structural and electronic engineering of biomass-derived carbon nanosheet composite for electrochemical oxygen reduction. <i>Sustainable Energy and Fuels</i> , 2021, 5, 2114-2126.                                       | 2.5  | 8         |
| 36 | An aqueous polyethylene oxide-based solid-state electrolyte with high voltage stability for dendrite-free lithium deposition via a self-healing electrostatic shield. <i>Dalton Transactions</i> , 2021, 50, 14296-14302. | 1.6  | 7         |

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|----|--|------|-----------|
| 37 | Berlin Green Framework-Based Gas Sensor for Room-Temperature and High-Selectivity Detection of Ammonia. <i>Nano-Micro Letters</i> , 2021, 13, 63.  | 14.4 | 21        |
| 38 | Regulation of the adsorption sites of Ni <sub>2</sub> P by Ru and S co-doping for ultra-efficient alkaline hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15648-15653.   | 5.2  | 30        |
| 39 | Hetero-MXenes: Theory, Synthesis, and Emerging Applications. <i>Advanced Materials</i> , 2021, 33, e2004129.   | 11.1 | 150       |
| 40 | PbSe Nanocrystals Produced by Facile Liquid Phase Exfoliation for Efficient UV-Vis Photodetectors. <i>Advanced Functional Materials</i> , 2021, 31, 2010401.   | 7.8  | 35        |
| 41 | 2D Electrocatalysts: Recent Progress in 2D Catalysts for Photocatalytic and Electrocatalytic Artificial Nitrogen Reduction to Ammonia ( <i>Adv. Energy Mater.</i> 11/2021). <i>Advanced Energy Materials</i> , 2021, 11, 2170043.                      | 10.2 | 3         |
| 42 | Scallion-Inspired Graphene Scaffold Enabled High Rate Lithium Metal Battery. <i>Nano Letters</i> , 2021, 21, 2347-2355.  | 4.5  | 20        |
| 43 | Electrochemical Construction of Low-Crystalline CoOOH Nanosheets with Short-Range Ordered Grains to Improve Oxygen Evolution Activity. <i>ACS Catalysis</i> , 2021, 11, 6104-6112.   | 5.5  | 103       |
| 44 | A Self-Limited Free-Standing Sulfide Electrolyte Thin Film for All-Solid-State Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2101985.  | 7.8  | 77        |
| 45 | Integrating well-controlled core-shell structures into superaerophobic electrodes for water oxidation at large current densities. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119920.   | 10.8 | 59        |
| 46 | Broadband and ultrafast all-optical switching based on transition metal carbide. <i>Nanophotonics</i> , 2021, 10, 2617-2623.   | 2.9  | 9         |
| 47 | Construction of K <sup>+</sup> Ion Gradient in Crystalline Carbon Nitride to Accelerate Exciton Dissociation and Charge Separation for Visible Light H <sub>2</sub> Production. <i>ACS Catalysis</i> , 2021, 11, 6995-7005.                            | 5.5  | 100       |
| 48 | Ultra-low-loaded Ni <sup>2+</sup> Fe Dimer Anchored to Nitrogen/Oxygen Sites for Boosting Electroreduction of Carbon Dioxide. <i>ChemSusChem</i> , 2021, 14, 4499-4506.  | 3.6  | 9         |
| 49 | Microrheology of thermoresponsive poly(N-isopropylacrylamide) microgel dispersions near a substrate surface. <i>Journal of Colloid and Interface Science</i> , 2021, 597, 104-113.   | 5.0  | 4         |
| 50 | Broadband few-layer niobium carbide MXene as saturable absorber for solid-state lasers. <i>Optics and Laser Technology</i> , 2021, 142, 107199.  | 2.2  | 21        |
| 51 | Functionalized carbon nanofiber interlayer towards dendrite-free, Zn-ion batteries. <i>Chemical Engineering Journal</i> , 2021, 425, 131862.   | 6.6  | 53        |
| 52 | Multiple anionic Ni(SO <sub>4</sub> ) <sub>0.3</sub> (OH) <sub>1.4</sub> nanobelts/reduced graphene oxide enabled by enhanced multielectron reactions with superior lithium storage capacity. <i>Chemical Engineering Journal</i> , 2021, 426, 131863. | 6.6  | 3         |
| 53 | Tuning and understanding the electronic effect of Co-Mo-O sites in bifunctional electrocatalysts for ultralong-lasting rechargeable zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21716-21722.                                | 5.2  | 16        |
| 54 | Atomically dispersed nonmagnetic electron traps improve oxygen reduction activity of perovskite oxides. <i>Energy and Environmental Science</i> , 2021, 14, 1016-1028.   | 15.6 | 130       |

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|----|---|------|-----------|
| 55 | Applications of Few-Layer Nb <sub>2</sub> C MXene: Narrow-Band Photodetectors and Femtosecond Mode-Locked Fiber Lasers. <i>ACS Nano</i> , 2021, 15, 954-965.  | 7.3  | 176       |
| 56 | ZIF-derived $\alpha$ -sephenite-like Co <sub>9</sub> S <sub>8</sub> /CeO <sub>2</sub> /Co heterostructural nitrogen-doped carbon nanosheets as bifunctional oxygen electrocatalysts for Zn-air batteries. <i>Nanoscale</i> , 2021, 13, 3227-3236.         | 2.8  | 33        |
| 57 | Bifunctional oxygen electrocatalysis on ultra-thin Co <sub>9</sub> S <sub>8</sub> /MnS carbon nanosheets for all-solid-state zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22635-22642.  | 5.2  | 22        |
| 58 | A facile evanescent-field imaging approach for monitoring colloidal gel evolution near a surface. <i>Soft Matter</i> , 2021, 17, 4006-4010.   | 1.2  | 4         |
| 59 | Tailoring the ultrafast and nonlinear photonics of MXenes through elemental replacement. <i>Nanoscale</i> , 2021, 13, 15891-15898.  | 2.8  | 11        |
| 60 | Efficient reversible CO/CO <sub>2</sub> conversion in solid oxide cells with a phase-transformed fuel electrode. <i>Science China Materials</i> , 2021, 64, 1114-1126.  | 3.5  | 31        |
| 61 | Piezo-Photocatalysis over Metal-Organic Frameworks: Promoting Photocatalytic Activity by Piezoelectric Effect. <i>Advanced Materials</i> , 2021, 33, e2106308.  | 11.1 | 154       |
| 62 | Strategic Design of Intelligent-Responsive Nanogel Carriers for Cancer Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 54621-54647.  | 4.0  | 43        |
| 63 | Unveiling the reaction mechanism of an Sb <sub>2</sub> S <sub>3</sub> @Co <sub>9</sub> S <sub>8</sub> /NC anode for high-performance lithium-ion batteries. <i>Nanoscale</i> , 2021, 13, 20041-20051.   | 2.8  | 13        |
| 64 | Nonmetal Doping as a Robust Route for Boosting the Hydrogen Evolution of Metal-Based Electrocatalysts. <i>Chemistry - A European Journal</i> , 2020, 26, 3930-3942.   | 1.7  | 15        |
| 65 | Improved interfacial electronic contacts powering high sulfur utilization in all-solid-state lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2020, 25, 436-442.   | 9.5  | 85        |
| 66 | Enhancing oxygen reduction performance of oxide-CNT through in-situ generated nanoalloy bridging. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118297.  | 10.8 | 34        |
| 67 | Highly efficient utilization of single atoms via constructing 3D and free-standing electrodes for CO <sub>2</sub> reduction with ultrahigh current density. <i>Nano Energy</i> , 2020, 70, 104454.  | 8.2  | 106       |
| 68 | Unconventionally fabricating defect-rich NiO nanoparticles within ultrathin metal-organic framework nanosheets to enable high-output oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2140-2146.                                      | 5.2  | 66        |
| 69 | Boosting the alkaline hydrogen evolution of Ru nanoclusters anchored on B/N-doped graphene by accelerating water dissociation. <i>Nano Energy</i> , 2020, 68, 104301.   | 8.2  | 138       |
| 70 | Insight into high electrochemical activity of reduced La <sub>0.3</sub> Sr <sub>0.7</sub> Fe <sub>0.7</sub> Ti <sub>0.3</sub> O <sub>3</sub> electrode for high temperature CO <sub>2</sub> electrolysis. <i>Electrochimica Acta</i> , 2020, 332, 135464. | 2.6  | 19        |
| 71 | Constructing a tunable defect structure in TiO <sub>2</sub> for photocatalytic nitrogen fixation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 334-341.   | 5.2  | 73        |
| 72 | One-pot synthesis of N,S-doped pearl chain tube-loaded Ni <sub>3</sub> S <sub>2</sub> composite materials for high-performance lithium-air batteries. <i>Nanoscale</i> , 2020, 12, 21770-21779.   | 2.8  | 7         |

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|----|---|------|-----------|
| 73 | A unique space confined strategy to construct defective metal oxides within porous nanofibers for electrocatalysis. <i>Energy and Environmental Science</i> , 2020, 13, 5097-5103.  | 15.6 | 80        |
| 74 | Understanding the Design Principles of Advanced Aqueous Zinc-Ion Battery Cathodes: From Transport Kinetics to Structural Engineering, and Future Perspectives. <i>Advanced Energy Materials</i> , 2020, 10, 2002354.                          | 10.2 | 193       |
| 75 | Ultralight and robust aerogels based on nanochitin towards water-resistant thermal insulators. <i>Carbohydrate Polymers</i> , 2020, 248, 116755.  | 5.1  | 28        |
| 76 | Facile Synthesis of Sub-Nanometric Copper Clusters by Double Confinement Enables Selective Reduction of Carbon Dioxide to Methane. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19054-19059.                                  | 7.2  | 152       |
| 77 | Facile Synthesis of Sub-Nanometric Copper Clusters by Double Confinement Enables Selective Reduction of Carbon Dioxide to Methane. <i>Angewandte Chemie</i> , 2020, 132, 19216-19221.   | 1.6  | 11        |
| 78 | Removing the barrier to water dissociation on single-atom Pt sites decorated with a CoP mesoporous nanosheet array to achieve improved hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11246-11254.                    | 5.2  | 62        |
| 79 | High-Performance Overall CO <sub>2</sub> Splitting on Hierarchical Structured Cobalt Disulfide with Partially Removed Sulfur Edges. <i>Advanced Functional Materials</i> , 2020, 30, 2000154.   | 7.8  | 26        |
| 80 | Ultrafast Relaxation Dynamics and Nonlinear Response of Few-Layer Niobium Carbide MXene. <i>Small Methods</i> , 2020, 4, 2000250.   | 4.6  | 84        |
| 81 | A review on energy chemistry of fast-charging anodes. <i>Chemical Society Reviews</i> , 2020, 49, 3806-3833.  | 18.7 | 323       |
| 82 | Slower Removing Ligands of Metal Organic Frameworks Enables Higher Electrocatalytic Performance of Derived Nanomaterials. <i>Small</i> , 2020, 16, e2002210.  | 5.2  | 47        |
| 83 | Unconventional chemical graphitization and functionalization of graphene oxide toward nanocomposites by degradation of ZnSe[DETA]0.5 hybrid nanobelts. <i>Science China Materials</i> , 2020, 63, 1878-1888.                                  | 3.5  | 1         |
| 84 | Two dimensional ZIF-derived ultra-thin Cu <sub>2</sub> N/C nanosheets as high performance oxygen reduction electrocatalysts for high-performance Zn-air batteries. <i>Nanoscale</i> , 2020, 12, 14259-14266.                                  | 2.8  | 34        |
| 85 | Interfacial redox behaviors of sulfide electrolytes in fast-charging all-solid-state lithium metal batteries. <i>Energy Storage Materials</i> , 2020, 31, 267-273.  | 9.5  | 45        |
| 86 | In situ encapsulated and well dispersed Co <sub>3</sub> O <sub>4</sub> nanoparticles as efficient and stable electrocatalysts for high-performance CO <sub>2</sub> reduction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15675-15680. | 5.2  | 24        |
| 87 | Slurry-Coated Sulfur/Sulfide Cathode with Li Metal Anode for All-Solid-State Lithium-Sulfur Pouch Cells. <i>Batteries and Supercaps</i> , 2020, 3, 596-603.   | 2.4  | 50        |
| 88 | Regulating silver nanowire size enables efficient photoelectric conversion. <i>Science China Chemistry</i> , 2020, 63, 1046-1052.   | 4.2  | 4         |
| 89 | Controlling Dendrite Growth in Solid-State Electrolytes. <i>ACS Energy Letters</i> , 2020, 5, 833-843.  | 8.8  | 322       |
| 90 | Recent Progress in Self-Supported Catalysts for CO <sub>2</sub> Electrochemical Reduction. <i>Small Methods</i> , 2020, 4, 1900826.   | 4.6  | 48        |

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|-----|---|------|-----------|
| 91  | Facile Preparation of a Fluorine-Free, Robust, Superhydrophobic Coating through Dip Coating Combined with Non-Solvent Induced Phase Separation (Dip-Coating/NIPS) Method. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 2000023. | 1.1  | 13        |
| 92  | MXene/Polymer Membranes: Synthesis, Properties, and Emerging Applications. <i>Chemistry of Materials</i> , 2020, 32, 1703-1747.   | 3.2  | 429       |
| 93  | Nitrogen and sulfur dual-doped high-surface-area hollow carbon nanospheres for efficient CO <sub>2</sub> reduction. <i>Chinese Journal of Catalysis</i> , 2020, 41, 830-838.  | 6.9  | 49        |
| 94  | Carbon dioxide electroreduction on single-atom nickel decorated carbon membranes with industry compatible current densities. <i>Nature Communications</i> , 2020, 11, 593.  | 5.8  | 330       |
| 95  | Self-Catalyzed Growth of Co-Ni C Nanobrushes for Efficient Rechargeable Zn-Air Batteries. <i>Small</i> , 2020, 16, e2001171.  | 5.2  | 84        |
| 96  | Construction of tetrahedral CoO <sub>4</sub> vacancies for activating the high oxygen evolution activity of Co <sub>3</sub> xO <sub>4</sub> porous nanosheet arrays. <i>Nanoscale</i> , 2020, 12, 11079-11087.                              | 2.8  | 35        |
| 97  | Frontispiece: Nonmetal Doping as a Robust Route for Boosting the Hydrogen Evolution of Metal-Based Electrocatalysts. <i>Chemistry - A European Journal</i> , 2020, 26, .  | 1.7  | 0         |
| 98  | Unconventional molybdenum carbide phases with high electrocatalytic activity for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18030-18038.   | 5.2  | 64        |
| 99  | Bio-Inspired Synthesis of Hematite Mesocrystals by Using Xonotlite Nanowires as Growth Modifiers and Their Improved Oxygen Evolution Activity. <i>ChemSusChem</i> , 2019, 12, 3747-3752.  | 3.6  | 6         |
| 100 | Electronic structure engineering of single atomic Ru by Ru nanoparticles to enable enhanced activity for alkaline water reduction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19531-19538.  | 5.2  | 33        |
| 101 | Nanomeshes: General Synthesis of Ultrathin Metal Borate Nanomeshes Enabled by 3D Bark-Like N-Doped Carbon for Electrocatalysis ( <i>Adv. Energy Mater.</i> 28/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970109.                   | 10.2 | 3         |
| 102 | Scalable Production of Efficient Single-Atom Copper Decorated Carbon Membranes for CO <sub>2</sub> Electroreduction to Methanol. <i>Journal of the American Chemical Society</i> , 2019, 141, 12717-12723.                                  | 6.6  | 545       |
| 103 | Bioinspired Unidirectional Silk Fibroin-Silver Compound Nanowire Composite Scaffold via Interface-Mediated In Situ Synthesis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14152-14156.                                     | 7.2  | 19        |
| 104 | Bioinspired Unidirectional Silk Fibroin-Silver Compound Nanowire Composite Scaffold via Interface-Mediated In Situ Synthesis. <i>Angewandte Chemie</i> , 2019, 131, 14290-14294.  | 1.6  | 7         |
| 105 | Interconnected phosphorus-doped CoO-nanoparticles nanotube with three-dimensional accessible surface enables high-performance electrochemical oxidation. <i>Nano Energy</i> , 2019, 66, 104194.   | 8.2  | 35        |
| 106 | Å½ctitelbild: Bioinspired Unidirectional Silk Fibroin-Silver Compound Nanowire Composite Scaffold via Interface-Mediated In Situ Synthesis ( <i>Angew. Chem.</i> 40/2019). <i>Angewandte Chemie</i> , 2019, 131, 14528-14528.               | 1.6  | 2         |
| 107 | Highly stable single Pt atomic sites anchored on aniline-stacked graphene for hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2019, 12, 1000-1007.   | 15.6 | 392       |
| 108 | Coupling pentlandite nanoparticles and dual-doped carbon networks to yield efficient and stable electrocatalysts for acid water oxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 461-468.                                      | 5.2  | 54        |

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|-----|--|------|-----------|
| 109 | Superhydrophilic Phytic Acid-Doped Conductive Hydrogels as Metal-Free and Binder-Free Electrocatalysts for Efficient Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4318-4322.  | 7.2  | 168       |
| 110 | Recent progress in the hybrids of transition metals/carbon for electrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14380-14390.  | 5.2  | 111       |
| 111 | General Synthesis of Ultrathin Metal Borate Nanomeshes Enabled by 3D Bark-Like N-Doped Carbon for Electrocatalysis. <i>Advanced Energy Materials</i> , 2019, 9, 1901130.   | 10.2 | 46        |
| 112 | Fast Charging Lithium Batteries: Recent Progress and Future Prospects. <i>Small</i> , 2019, 15, e1805389.  | 5.2  | 277       |
| 113 | Zn-Air Batteries: Trifunctional Electrocatalysis on Dual-Doped Graphene Nanorings-Integrated Boxes for Efficient Water Splitting and Zn-Air Batteries ( <i>Adv. Energy Mater.</i> 14/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970045.                               | 10.2 | 3         |
| 114 | Facile synthesis of polyacrylonitrile-based N/S-codoped porous carbon as an efficient oxygen reduction electrocatalyst for zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11223-11233.   | 5.2  | 39        |
| 115 | Superhydrophilic Phytic Acid-Doped Conductive Hydrogels as Metal-Free and Binder-Free Electrocatalysts for Efficient Water Oxidation. <i>Angewandte Chemie</i> , 2019, 131, 4362-4366.   | 1.6  | 29        |
| 116 | Trifunctional Electrocatalysis on Dual-Doped Graphene Nanorings-Integrated Boxes for Efficient Water Splitting and Zn-Air Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1803867.  | 10.2 | 173       |
| 117 | Titanium-substituted ferrite perovskite: An excellent sulfur and coking tolerant anode catalyst for SOFCs. <i>Catalysis Today</i> , 2019, 330, 217-221.  | 2.2  | 27        |
| 118 | Platinum/nitrogen-doped carbon/carbon cloth: a bifunctional catalyst for the electrochemical reduction and carboxylation of CO <sub>2</sub> with excellent efficiency. <i>Chemical Communications</i> , 2018, 54, 4108-4111.   | 2.2  | 25        |
| 119 | Strongly coupled Sm <sub>0.2</sub> Ce <sub>0.8</sub> O <sub>2</sub> -Na <sub>2</sub> CO <sub>3</sub> nanocomposite for low temperature solid oxide fuel cells: One-step synthesis and super interfacial proton conduction. <i>Journal of Power Sources</i> , 2018, 386, 56-65. | 4.0  | 50        |
| 120 | BisGMA analogues as monomers and diluents for dental restorative composite materials. <i>Materials Science and Engineering C</i> , 2018, 88, 25-31.  | 3.8  | 25        |
| 121 | Intracellular glutathione-depleting polymeric micelles for cisplatin prodrug delivery to overcome cisplatin resistance of cancers. <i>Journal of Controlled Release</i> , 2018, 273, 30-39.  | 4.8  | 77        |
| 122 | High efficiency oxygen evolution reaction enabled by 3D network composed of nitrogen-doped graphitic carbon-coated metal/metal oxide heterojunctions. <i>Electrochimica Acta</i> , 2018, 265, 620-628.   | 2.6  | 23        |
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