

# Junwu Zhu

## List of Publications by Year in descending order

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199  
papers

15,168  
citations

23567

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h-index

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118  
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202  
all docs

202  
docs citations

202  
times ranked

18400  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Graphene Oxide~MnO <sub>2</sub> Nanocomposites for Supercapacitors. ACS Nano, 2010, 4, 2822-2830.  | 14.6 | 1,983     |
| 2  | Graphene~Metal Particle Nanocomposites. Journal of Physical Chemistry C, 2008, 112, 19841-19845.   | 3.1  | 1,466     |
| 3  | Bioinspired Effective Prevention of Restacking in Multilayered Graphene Films: Towards the Next Generation of High~Performance Supercapacitors. Advanced Materials, 2011, 23, 2833-2838.           | 21.0 | 954       |
| 4  | High~Performance 2.6 V Aqueous Asymmetric Supercapacitors based on In Situ Formed Na <sub>0.5</sub> MnO <sub>2</sub> Nanosheet Assembled Nanowall Arrays. Advanced Materials, 2017, 29, 1700804.   | 21.0 | 526       |
| 5  | One-Step Synthesis of Graphene~Cobalt Hydroxide Nanocomposites and Their Electrochemical Properties. Journal of Physical Chemistry C, 2010, 114, 11829-11834.                                      | 3.1  | 313       |
| 6  | Preparation of NiO nanoparticles and their catalytic activity in the thermal decomposition of ammonium perchlorate. Thermochimica Acta, 2005, 437, 106-109.  | 2.7  | 298       |
| 7  | Deposition of Co <sub>3</sub> O <sub>4</sub> nanoparticles onto exfoliated graphite oxide sheets. Journal of Materials Chemistry, 2008, 18, 5625.  | 6.7  | 290       |
| 8  | Reduction of nitrophenols to aminophenols under concerted catalysis by Au/g-C <sub>3</sub> N <sub>4</sub> contact system. Applied Catalysis B: Environmental, 2017, 202, 430-437.                  | 20.2 | 253       |
| 9  | Highly dispersed CuO nanoparticles prepared by a novel quick-precipitation method. Materials Letters, 2004, 58, 3324-3327.   | 2.6  | 243       |
| 10 | 2D Fe-containing cobalt phosphide/cobalt oxide lateral heterostructure with enhanced activity for oxygen evolution reaction. Nano Energy, 2019, 56, 109-117.                                       | 16.0 | 223       |
| 11 | Ag/g-C <sub>3</sub> N <sub>4</sub> catalyst with superior catalytic performance for the degradation of dyes: a borohydride-generated superoxide radical approach. Nanoscale, 2015, 7, 13723-13733. | 5.6  | 216       |
| 12 | Synthesis of amphiphilic graphite oxide. Carbon, 2008, 46, 386-389.  | 10.3 | 197       |
| 13 | Covalently coupled hybrid of graphitic carbon nitride with reduced graphene oxide as a superior performance lithium-ion battery anode. Nanoscale, 2014, 6, 12555-12564.                            | 5.6  | 194       |
| 14 | Decorating graphene oxide with CuO nanoparticles in a water~isopropanol system. Nanoscale, 2010, 2, 988.   | 5.6  | 175       |
| 15 | Ternary manganese ferrite/graphene/polyaniline nanostructure with enhanced electrochemical capacitance performance. Journal of Power Sources, 2014, 266, 384-392.                                  | 7.8  | 169       |
| 16 | Shape-Controlled Synthesis of One-Dimensional MnO <sub>2</sub> via a Facile Quick-Precipitation Procedure and its Electrochemical Properties. Crystal Growth and Design, 2009, 9, 4356-4361.       | 3.0  | 167       |
| 17 | Perfluoroalkyl-Functionalized Covalent Organic Frameworks with Superhydrophobicity for Anhydrous Proton Conduction. Journal of the American Chemical Society, 2020, 142, 14357-14364.              | 13.7 | 167       |
| 18 | Self-standing porous LiMn <sub>2</sub> O <sub>4</sub> nanowall arrays as promising cathodes for advanced 3D microbatteries and flexible lithium-ion batteries. Nano Energy, 2016, 22, 475-482.     | 16.0 | 166       |

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|----|--|------|-----------|
| 19 | Reduced graphene oxide decorated with CuO@ZnO hetero-junctions: towards high selective gas-sensing property to acetone. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18635-18643.  | 10.3 | 150       |
| 20 | Optimizing Hybridization of 1T and 2H Phases in MoS <sub>2</sub> Monolayers to Improve Capacitances of Supercapacitors. <i>Materials Research Letters</i> , 2015, 3, 177-183.  | 8.7  | 149       |
| 21 | In situ fabrication of novel Z-scheme Bi <sub>2</sub> WO <sub>6</sub> quantum dots/g-C <sub>3</sub> N <sub>4</sub> ultrathin nanosheets heterostructures with improved photocatalytic activity. <i>Applied Surface Science</i> , 2015, 355, 379-387. | 6.1  | 141       |
| 22 | Yolk-shell-structured MnO <sub>2</sub> microspheres with oxygen vacancies for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1601-1611.  | 10.3 | 135       |
| 23 | Iron-Cluster-Directed Synthesis of 2D/2D Fe@C/MXene Superlattice-like Heterostructure with Enhanced Oxygen Reduction Electrocatalysis. <i>ACS Nano</i> , 2020, 14, 2436-2444.  | 14.6 | 130       |
| 24 | From Graphene to Metal Oxide Nanolamellas: A Phenomenon of Morphology Transmission. <i>ACS Nano</i> , 2010, 4, 6212-6218.  | 14.6 | 116       |
| 25 | Design and fabrication of highly open nickel cobalt sulfide nanosheets on Ni foam for asymmetric supercapacitors with high energy density and long cycle-life. <i>Journal of Power Sources</i> , 2018, 378, 31-39.                                   | 7.8  | 115       |
| 26 | Preparation and characterization of perovskite LaFeO <sub>3</sub> nanocrystals. <i>Materials Letters</i> , 2006, 60, 1767-1770.  | 2.6  | 110       |
| 27 | Recent advances on multi-component hybrid nanostructures for electrochemical capacitors. <i>Journal of Power Sources</i> , 2015, 294, 31-50.   | 7.8  | 107       |
| 28 | Cobalt Sulfide/Graphene Composite Hydrogel as Electrode for High-Performance Pseudocapacitors. <i>Scientific Reports</i> , 2016, 6, 21717.   | 3.3  | 105       |
| 29 | Self-Assembly of Ir-Based Nanosheets with Ordered Interlayer Space for Enhanced Electrocatalytic Water Oxidation. <i>Journal of the American Chemical Society</i> , 2022, 144, 2208-2217.  | 13.7 | 103       |
| 30 | NbS <sub>2</sub> Nanosheets with M/Se (M = Fe, Co, Ni) Codopants for Li <sup>+</sup> and Na <sup>+</sup> Storage. <i>ACS Nano</i> , 2017, 11, 10599-10607.   | 14.6 | 95        |
| 31 | Dense films formed during Ti anodization in NH <sub>4</sub> F electrolyte: Evidence against the field-assisted dissolution reactions of fluoride ions. <i>Electrochemistry Communications</i> , 2020, 111, 106663.                                   | 4.7  | 95        |
| 32 | Recent development and applications of electrical conductive MOFs. <i>Nanoscale</i> , 2021, 13, 485-509.   | 5.6  | 95        |
| 33 | Strong Chemical Interaction between Lithium Polysulfides and Flame-Retardant Polyphosphazene for Lithium-Sulfur Batteries with Enhanced Safety and Electrochemical Performance. <i>Advanced Materials</i> , 2021, 33, e2007549.                      | 21.0 | 93        |
| 34 | Recent advances in graphene-based hybrid nanostructures for electrochemical energy storage. <i>Nanoscale Horizons</i> , 2016, 1, 340-374.  | 8.0  | 92        |
| 35 | Switchable encapsulation of polysulfides in the transition between sulfur and lithium sulfide. <i>Nature Communications</i> , 2020, 11, 845.   | 12.8 | 92        |
| 36 | Depositing ZnO nanoparticles onto graphene in a polyol system. <i>Materials Chemistry and Physics</i> , 2011, 125, 617-620.  | 4.0  | 91        |

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|----|---|------|-----------|
| 37 | Cadmium Sulfide@Ferrite Nanocomposite as a Magnetically Recyclable Photocatalyst with Enhanced Visible-Light-Driven Photocatalytic Activity and Photostability. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 17126-17133. | 3.7  | 90        |
| 38 | Fabrication of a low defect density graphene-nickel hydroxide nanosheet hybrid with enhanced electrochemical performance. <i>Nano Research</i> , 2012, 5, 11-19.  | 10.4 | 89        |
| 39 | Graphene-based 3D composite hydrogel by anchoring Co <sub>3</sub> O <sub>4</sub> nanoparticles with enhanced electrochemical properties. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12940.  | 2.8  | 89        |
| 40 | Salt-Assisted Synthesis of 3D Porous g-C <sub>3</sub> N <sub>4</sub> as a Bifunctional Photo- and Electrocatalyst. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 27226-27232.   | 8.0  | 89        |
| 41 | Rambutan-Like Hybrid Hollow Spheres of Carbon Confined Co <sub>3</sub> O <sub>4</sub> Nanoparticles as Advanced Anode Materials for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1807377.                             | 14.9 | 89        |
| 42 | Needle-shaped nanocrystalline CuO prepared by liquid hydrolysis of Cu(OAc) <sub>2</sub> . <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 384, 172-176.                   | 5.6  | 85        |
| 43 | Preparation and characterization of Ln <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> (Ln=La and Nd) nanocrystals and their photocatalytic properties. <i>Journal of Alloys and Compounds</i> , 2008, 465, 280-284.                                | 5.5  | 85        |
| 44 | Synthesis and characterization of graphene paper with controllable properties via chemical reduction. <i>Journal of Materials Chemistry</i> , 2011, 21, 14631.  | 6.7  | 85        |
| 45 | Fabrication of Fe <sub>2</sub> O <sub>3</sub> @graphene nanostructures for enhanced gas-sensing property to ethanol. <i>Applied Surface Science</i> , 2014, 292, 278-284.   | 6.1  | 85        |
| 46 | 2D/2D heterostructures of nickel molybdate and MXene with strong coupled synergistic effect towards enhanced supercapacitor performance. <i>Journal of Power Sources</i> , 2019, 414, 540-546.  | 7.8  | 83        |
| 47 | TiO <sub>2</sub> nanotube arrays with a volume expansion factor greater than 2.0: Evidence against the field-assisted ejection theory. <i>Electrochemistry Communications</i> , 2020, 114, 106717.  | 4.7  | 82        |
| 48 | MnO <sub>2</sub> based sandwich structure electrode for supercapacitor with large voltage window and high mass loading. <i>Chemical Engineering Journal</i> , 2019, 368, 525-532.   | 12.7 | 72        |
| 49 | Synthesis of flower-like CuO nanostructures via a simple hydrolysis route. <i>Materials Letters</i> , 2007, 61, 5236-5238.  | 2.6  | 71        |
| 50 | One-step synthesis of low defect density carbon nanotube-doped Ni(OH) <sub>2</sub> nanosheets with improved electrochemical performances. <i>RSC Advances</i> , 2011, 1, 484.   | 3.6  | 70        |
| 51 | Synthesis of ZnO@Ag Hybrids and Their Gas-Sensing Performance toward Ethanol. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 8947-8953.   | 3.7  | 70        |
| 52 | Catalytic Activity of Nanometer-Sized CuO/Fe <sub>2</sub> O <sub>3</sub> on Thermal Decomposition of AP and Combustion of AP-Based Propellant. <i>Combustion Science and Technology</i> , 2010, 183, 154-162.                                   | 2.3  | 66        |
| 53 | Self-assembled hydrothermal synthesis for producing a MnCO <sub>3</sub> /graphene hydrogel composite and its electrochemical properties. <i>RSC Advances</i> , 2013, 3, 4400.   | 3.6  | 66        |
| 54 | Synthesis of Cu-Fe <sub>3</sub> O <sub>4</sub> @graphene composite: A magnetically separable and efficient catalyst for the reduction of 4-nitrophenol. <i>Materials Research Bulletin</i> , 2014, 57, 190-196.                                 | 5.2  | 65        |

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|----|---|------|-----------|
| 55 | Two-dimensional organic-inorganic superlattice-like heterostructures for energy storage applications. <i>Energy and Environmental Science</i> , 2020, 13, 4834-4853.  | 30.8 | 64        |
| 56 | In-situ synthesis of MnCo <sub>2</sub> O <sub>4.5</sub> nanosheets on reduced graphene oxide for a great promotion in the thermal decomposition of ammonium perchlorate. <i>Applied Surface Science</i> , 2019, 483, 496-505.           | 6.1  | 63        |
| 57 | Pressure difference-induced synthesis of P-doped carbon nanobowls for high-performance supercapacitors. <i>Chemical Engineering Journal</i> , 2020, 385, 123858.  | 12.7 | 60        |
| 58 | Identifying electrocatalytic activity and mechanism of Ce <sub>1/3</sub> NbO <sub>3</sub> perovskite for nitrogen reduction to ammonia at ambient conditions. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119419.            | 20.2 | 60        |
| 59 | Construction of triple-shelled hollow nanostructure by confining amorphous Ni-Co-S/crystalline MnS on/in hollow carbon nanospheres for all-solid-state hybrid supercapacitors. <i>Chemical Engineering Journal</i> , 2021, 416, 129500. | 12.7 | 60        |
| 60 | Biomimetic assembly to superplastic metal-organic framework aerogels for hydrogen evolution from seawater electrolysis. <i>Exploration</i> , 2021, 1, 217.  | 11.0 | 59        |
| 61 | Synthesis of Bi nanowire networks and their superior photocatalytic activity for Cr(VI) reduction. <i>Nanoscale</i> , 2014, 6, 10062-10070.   | 5.6  | 57        |
| 62 | Ultrathin molybdenum disulfide/carbon nitride nanosheets with abundant active sites for enhanced hydrogen evolution. <i>Nanoscale</i> , 2018, 10, 1766-1773.  | 5.6  | 57        |
| 63 | Atomic-scale regulation of anionic and cationic migration in alkali metal batteries. <i>Nature Communications</i> , 2021, 12, 4184.   | 12.8 | 57        |
| 64 | One-pot hydrothermal route to synthesize the ZnIn <sub>2</sub> S <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> composites with enhanced photocatalytic activity. <i>Journal of Materials Science</i> , 2015, 50, 8142-8152.             | 3.7  | 56        |
| 65 | A safe and efficient liquid-solid synthesis for copper azide films with excellent electrostatic stability. <i>Nano Energy</i> , 2019, 66, 104135.   | 16.0 | 56        |
| 66 | CuO nanocrystals with controllable shapes grown from solution without any surfactants. <i>Materials Chemistry and Physics</i> , 2008, 109, 34-38.   | 4.0  | 55        |
| 67 | Two-Dimensional Nanomesh Arrays as Bifunctional Catalysts for N <sub>2</sub> Electrolysis. <i>ACS Catalysis</i> , 2020, 10, 11371-11379.  | 11.2 | 55        |
| 68 | Dynamic Transformation between Covalent Organic Frameworks and Discrete Organic Cages. <i>Journal of the American Chemical Society</i> , 2020, 142, 21279-21284.  | 13.7 | 54        |
| 69 | Efficient removal of methylene blue over composite-phase BiVO <sub>4</sub> fabricated by hydrothermal control synthesis. <i>Materials Chemistry and Physics</i> , 2012, 136, 897-902.   | 4.0  | 52        |
| 70 | Ultrathin two-dimensional Cd conjugated coordination polymer Co <sub>3</sub> (hexaaminobenzene) <sub>2</sub> nanosheets for highly efficient oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 369-379.              | 10.3 | 50        |
| 71 | Synthesis, characterization and enhanced gas sensing performance of WO <sub>3</sub> nanotube bundles. <i>New Journal of Chemistry</i> , 2013, 37, 4241.   | 2.8  | 49        |
| 72 | Graphene-based cobalt sulfide composite hydrogel with enhanced electrochemical properties for supercapacitors. <i>New Journal of Chemistry</i> , 2016, 40, 2843-2849.   | 2.8  | 49        |

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|----|---|------|-----------|
| 73 | Effect of the counter ions on composition and morphology of bismuth oxyhalides and their photocatalytic performance. <i>Chemical Engineering Journal</i> , 2016, 299, 217-226.  | 12.7 | 48        |
| 74 | The enhanced adhesion between overlong TiN <sub>x</sub> O <sub>y</sub> /MnO <sub>2</sub> nanoarrays and Ti substrate: Towards flexible supercapacitors with high energy density and long service life. <i>Nano Energy</i> , 2018, 43, 91-102.                   | 16.0 | 48        |
| 75 | Spinel-type FeNi <sub>2</sub> S <sub>4</sub> with rich sulfur vacancies grown on reduced graphene oxide toward enhanced supercapacitive performance. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 2271-2279.   | 6.0  | 48        |
| 76 | Synthesis of $\hat{\Gamma}$ -Bi <sub>2</sub> O <sub>3</sub> microflowers and nanosheets using CH <sub>3</sub> COO(BiO) self-sacrifice precursor. <i>Materials Letters</i> , 2016, 162, 218-221.   | 2.6  | 47        |
| 77 | Synthesis of Unique Flowerlike Bi <sub>2</sub> O <sub>3</sub> (OH)(NO <sub>3</sub> ) Hierarchical Microstructures with High Surface Area and Superior Photocatalytic Performance. <i>Chemistry - A European Journal</i> , 2017, 23, 3891-3897.                  | 3.3  | 47        |
| 78 | A Facile Hydrothermal Synthesis of a MnCo <sub>2</sub> O <sub>4</sub> @Reduced Graphene Oxide Nanocomposite for Application in Supercapacitors. <i>Chemistry Letters</i> , 2014, 43, 83-85.   | 1.3  | 45        |
| 79 | Two-dimensional transition metal diborides: promising Dirac electrocatalysts with large reaction regions toward efficient N <sub>2</sub> fixation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25887-25893.  | 10.3 | 45        |
| 80 | Preparing Bi <sub>12</sub> SiO <sub>20</sub> crystals at low temperature through nontopotactic solid-state transformation and improving its photocatalytic activity by etching. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7413-7421.                   | 10.3 | 44        |
| 81 | Controlled synthesis of bismuth-containing compounds ( $\hat{\Gamma}$ , $\hat{\Gamma}^2$ - and $\hat{\Gamma}$ -Bi <sub>2</sub> O <sub>3</sub> ), Tj ETQq1 1 0.784314 rgBT / O and their photocatalytic performance. <i>CrystEngComm</i> , 2015, 17, 9185-9192.  | 2.6  | 44        |
| 82 | Hollow mesoporous carbon spheres enwrapped by small-sized and ultrathin nickel hydroxide nanosheets for high-performance hybrid supercapacitors. <i>Journal of Power Sources</i> , 2018, 402, 43-52.  | 7.8  | 44        |
| 83 | Sustainable Electrosynthesis of Porous CuN <sub>3</sub> Films for Functional Energetic Chips. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3969-3975.  | 6.7  | 44        |
| 84 | Band Engineering and Morphology Control of Oxygen-Incorporated Graphitic Carbon Nitride Porous Nanosheets for Highly Efficient Photocatalytic Hydrogen Evolution. <i>Nano-Micro Letters</i> , 2021, 13, 48.   | 27.0 | 43        |
| 85 | Highly efficient removal of aqueous chromate and organic dyes by ultralong HCOOBiO nanowires. <i>Chemical Engineering Journal</i> , 2015, 262, 169-178.   | 12.7 | 42        |
| 86 | Evidence of oxygen bubbles forming nanotube embryos in porous anodic oxides. <i>Nanoscale Advances</i> , 2021, 3, 4659-4668.  | 4.6  | 42        |
| 87 | Catalytic hydrogenation of p-nitrophenol using a metal-free catalyst of porous crimped graphitic carbon nitride. <i>Applied Surface Science</i> , 2019, 480, 888-895.   | 6.1  | 41        |
| 88 | Scalable synthesis of a foam-like FeS <sub>2</sub> nanostructure by a solution combustion-sulfurization process for high-capacity sodium-ion batteries. <i>Nanoscale</i> , 2019, 11, 178-184.   | 5.6  | 40        |
| 89 | Carbon-Induced Generation of Hierarchical Structured Ni <sub>0.75</sub> Co <sub>0.25</sub> (CO <sub>3</sub> ) <sub>0.125</sub> (OH) <sub>2</sub> for Enhanced Supercapacitor Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 44441-44451. | 8.0  | 39        |
| 90 | Labyrinth-inspired nitrogen-sulfur co-doped reduced holey graphene oxide/carbonized cellulose paper: A permselective and multifunctional interlayer for high-performance lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2019, 434, 226728.         | 7.8  | 39        |

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|-----|--|------|-----------|
| 91  | Surface pore-containing NiCo <sub>2</sub> O <sub>4</sub> nanobelts with preferred (311) plane supported on reduced graphene oxide: A high-performance anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2018, 271, 137-145.   | 5.2  | 38        |
| 92  | Preparation, electrochemical properties, and adsorption kinetics of Ni <sub>3</sub> S <sub>2</sub> /graphene nanocomposites using alkylthiocarbonato complexes of nickel (SCPT) as single-source precursors. <i>New Journal of Chemistry</i> , 2013, 37, 654-662.  | 2.8  | 37        |
| 93  | Biomass-derived C/N co-doped Ni(OH) <sub>2</sub> /Ni <sub>x</sub> S <sub>y</sub> with a sandwich structure for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17417-17425.  | 10.3 | 37        |
| 94  | Synthesis of Bi <sub>2</sub> O <sub>3</sub> architectures in DMF/H <sub>2</sub> O solution by precipitation method and their photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2014, 614, 353-359.   | 5.5  | 36        |
| 95  | Recent advances in the heteroatom doping of perovskite oxides for efficient electrocatalytic reactions. <i>Nanoscale</i> , 2021, 13, 19840-19856.  | 5.6  | 36        |
| 96  | Mesoporous transition metal oxides quasi-nanospheres with enhanced electrochemical properties for supercapacitor applications. <i>Journal of Colloid and Interface Science</i> , 2016, 483, 73-83.   | 9.4  | 35        |
| 97  | Two basic bismuth nitrates: [Bi <sub>6</sub> O <sub>6</sub> (OH) <sub>2</sub> ](NO <sub>3</sub> ) <sub>4</sub> ·2H <sub>2</sub> O with superior photodegradation activity for rhodamine B and [Bi <sub>6</sub> O <sub>5</sub> (OH) <sub>3</sub> ](NO <sub>3</sub> ) <sub>5</sub> ·3H <sub>2</sub> O with ultrahigh adsorption capacity for methyl orange. <i>Applied Surface Science</i> , 2017, 422, 283-294. | 6.1  | 35        |
| 98  | Debunking the effect of water content on anodizing current: Evidence against the traditional dissolution theory. <i>Electrochemistry Communications</i> , 2020, 119, 106815.   | 4.7  | 35        |
| 99  | Ultrafine silver nanoparticles obtained from ethylene glycol at room temperature: catalyzed by tungstate ions. <i>Dalton Transactions</i> , 2014, 43, 132-137.   | 3.3  | 34        |
| 100 | Deposition of cocoon-like ZnO on graphene sheets for improving gas-sensing properties to ethanol. <i>Applied Surface Science</i> , 2015, 357, 1593-1600.   | 6.1  | 34        |
| 101 | Hexagonal prism arrays constructed using ultrathin porous nanoflakes of carbon doped mixed-valence Co-Mn-Fe phosphides for ultrahigh areal capacitance and remarkable cycling stability. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4431-4437.   | 10.3 | 34        |
| 102 | Fe <sub>3</sub> O <sub>4</sub> -CoP Nanoflowers Vertically Grown on TiN Nanoarrays as Efficient and Stable Electrocatalysts for Overall Water Splitting. <i>ACS Applied Nano Materials</i> , 2019, 2, 40-47.   | 5.0  | 34        |
| 103 | Gas expansion-assisted preparation of 3D porous carbon nanosheet for high-performance sodium ion hybrid capacitor. <i>Journal of Power Sources</i> , 2020, 475, 228679.  | 7.8  | 34        |
| 104 | Facet Engineering in Ultrathin Two-Dimensional NiFe Metal-Organic Frameworks by Coordination Modulation for Enhanced Electrocatalytic Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 10892-10901.  | 6.7  | 34        |
| 105 | Task-Specific Synthesis of 3D Porous Carbon Nitrides from the Cycloaddition Reaction and Sequential Self-Assembly Strategy toward Photocatalytic Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 40433-40442.  | 8.0  | 33        |
| 106 | Construction of N-doped carbon@MoSe <sub>2</sub> core/branch nanostructure via simultaneous formation of core and branch for high-performance lithium-ion batteries. <i>Electrochimica Acta</i> , 2017, 256, 19-27.  | 5.2  | 32        |
| 107 | Hierarchically Structured Two-Dimensional Bimetallic CoNi-Hexaaminobenzene Coordination Polymers Derived from Co(OH) <sub>2</sub> for Enhanced Oxygen Evolution Catalysis. <i>Small</i> , 2020, 16, e1907043.  | 10.0 | 32        |
| 108 | Battery-Driven N <sub>2</sub> Electrolysis Enabled by High-Entropy Catalysts: From Theoretical Prediction to Prototype Model. <i>Small</i> , 2022, 18, e2106358.   | 10.0 | 32        |

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|-----|--|------|-----------|
| 109 | Room-temperature synthesis from molecular precursors and photocatalytic activities of ultralong Sb <sub>2</sub> S <sub>3</sub> nanowires. <i>RSC Advances</i> , 2011, 1, 1364.   | 3.6  | 31        |
| 110 | MXene-based porous and robust 2D/2D hybrid architectures with dispersed Li <sub>3</sub> Ti <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> as superior anodes for lithium-ion battery. <i>Chemical Engineering Journal</i> , 2021, 405, 127049. | 12.7 | 31        |
| 111 | An ion exchange strategy to BiOI/CH <sub>3</sub> COO(BiO) heterojunction with enhanced visible-light photocatalytic activity. <i>Applied Surface Science</i> , 2017, 403, 103-111.   | 6.1  | 30        |
| 112 | Three-dimensional nickel hydroxide/graphene composite hydrogels and their transformation to NiO/graphene composites for energy storage. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21682-21689.                                      | 10.3 | 29        |
| 113 | Well-dispersed ultrafine nitrogen-doped TiO <sub>2</sub> with polyvinylpyrrolidone (PVP) acted as N-source and stabilizer for water splitting. <i>Journal of Energy Chemistry</i> , 2016, 25, 1-9.   | 12.9 | 28        |
| 114 | A facile and rapid room-temperature route to hierarchical bismuth oxyhalide solid solutions with composition-dependent photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2016, 477, 25-33.                          | 9.4  | 27        |
| 115 | Quantitative Analysis of Oxide Growth During Ti Galvanostatic Anodization. <i>Journal of the Electrochemical Society</i> , 2020, 167, 113501.  | 2.9  | 27        |
| 116 | Preparation and characterization of LaNiO <sub>3</sub> nanocrystals. <i>Materials Research Bulletin</i> , 2006, 41, 1565-1570.   | 5.2  | 26        |
| 117 | Synthesis of nanosheet-based hierarchical BiO <sub>2</sub> microtubes and its photocatalytic performance. <i>Applied Surface Science</i> , 2018, 455, 616-621.   | 6.1  | 26        |
| 118 | Great influence of a small amount of capping agents on the morphology of SnS particles using xanthate as precursor. <i>Journal of Alloys and Compounds</i> , 2011, 509, 2180-2185.   | 5.5  | 25        |
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