

# Han Hu

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

196  
papers

17,667  
citations

67  
h-index

130  
g-index

214  
ext. papers

20,463  
ext. citations

12.3  
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7.28  
L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 196 | Ultralight and highly compressible graphene aerogels. <i>Advanced Materials</i> , <b>2013</b> , 25, 2219-23  | 24   | 1074      |
| 195 | Designed Formation of Co <sub>3</sub> NiCo <sub>3</sub> Double-Shelled Nanocages with Enhanced Pseudocapacitive and Electrocatalytic Properties. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 5590-5                           | 16.4 | 880       |
| 194 | Enhancing lithium-sulphur battery performance by strongly binding the discharge products on amino-functionalized reduced graphene oxide. <i>Nature Communications</i> , <b>2014</b> , 5, 5002  | 17.4 | 792       |
| 193 | Ultrathin MoS <sub>2</sub> Nanosheets Supported on N-doped Carbon Nanoboxes with Enhanced Lithium Storage and Electrocatalytic Properties. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 7395-8                                 | 16.4 | 548       |
| 192 | Electroactive edge site-enriched nickel-cobalt sulfide into graphene frameworks for high-performance asymmetric supercapacitors. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 1299-1307  | 35.4 | 540       |
| 191 | Complex Hollow Nanostructures: Synthesis and Energy-Related Applications. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604563  | 24   | 529       |
| 190 | Sustainable Synthesis and Assembly of Biomass-Derived B/N Co-Doped Carbon Nanosheets with Ultrahigh Aspect Ratio for High-Performance Supercapacitors. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 111-119                                | 15.6 | 492       |
| 189 | Double-Shelled Nanocages with Cobalt Hydroxide Inner Shell and Layered Double Hydroxides Outer Shell as High-Efficiency Polysulfide Mediator for Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 3982-6 | 16.4 | 447       |
| 188 | Metal-organic-framework-engaged formation of Co nanoparticle-embedded carbon@Co <sub>9</sub> S <sub>8</sub> double-shelled nanocages for efficient oxygen reduction. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 107-111                | 35.4 | 427       |
| 187 | Construction of Complex CoS Hollow Structures with Enhanced Electrochemical Properties for Hybrid Supercapacitors. <i>Chem</i> , <b>2016</b> , 1, 102-113  | 16.2 | 406       |
| 186 | Stabilizing the MXenes by Carbon Nanoplatelet for Developing Hierarchical Nanohybrids with Efficient Lithium Storage and Hydrogen Evolution Capability. <i>Advanced Materials</i> , <b>2017</b> , 29, 1607017  | 24   | 380       |
| 185 | Design and fabrication of carbon dots for energy conversion and storage. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 2315-2337   | 58.5 | 363       |
| 184 | Formation of Uniform Fe <sub>3</sub> O <sub>4</sub> Hollow Spheres Organized by Ultrathin Nanosheets and Their Excellent Lithium Storage Properties. <i>Advanced Materials</i> , <b>2015</b> , 27, 4097-101  | 24   | 346       |
| 183 | A flexible TiO <sub>2</sub> -based battery electrode with superior power rate and ultralong cycle life. <i>Advanced Materials</i> , <b>2013</b> , 25, 3462-7   | 24   | 274       |
| 182 | Unusual Formation of CoSe@carbon Nanoboxes, which have an Inhomogeneous Shell, for Efficient Lithium Storage. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 9514-8  | 16.4 | 270       |
| 181 | Carbon foam: Preparation and application. <i>Carbon</i> , <b>2015</b> , 87, 128-152  | 10.4 | 269       |
| 180 | Ultrafine MoO <sub>2</sub> -Carbon Microstructures Enable Ultralong-Life Power-Type Sodium Ion Storage by Enhanced Pseudocapacitance. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602880  | 21.8 | 237       |

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| 179 | A superhydrophilic nanoglue for stabilizing metal hydroxides onto carbon materials for high-energy and ultralong-life asymmetric supercapacitors. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1958-1965                     | 35.4  | 228 |
| 178 | Self-Sensing, Ultralight, and Conductive 3D Graphene/Iron Oxide Aerogel Elastomer Deformable in a Magnetic Field. <i>ACS Nano</i> , <b>2015</b> , 9, 3969-77  | 16.7  | 226 |
| 177 | 3D Architecture Materials Made of NiCoAl-LDH Nanoplates Coupled with NiCo-Carbonate Hydroxide Nanowires Grown on Flexible Graphite Paper for Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400761        | 21.8  | 220 |
| 176 | The role of microwave absorption on formation of graphene from graphite oxide. <i>Carbon</i> , <b>2012</b> , 50, 3267-3273  | 32.73 | 212 |
| 175 | Ultrafast Self-Assembly of Graphene Oxide-Induced Monolithic NiCo-Carbonate Hydroxide Nanowire Architectures with a Superior Volumetric Capacitance for Supercapacitors. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 2109-2116 | 15.6  | 199 |
| 174 | A Binder-Free and Free-Standing Cobalt Sulfide@Carbon Nanotube Cathode Material for Aluminum-Ion Batteries. <i>Advanced Materials</i> , <b>2018</b> , 30, 1703824   | 24    | 199 |
| 173 | Construction of hybrid bowl-like structures by anchoring NiO nanosheets on flat carbon hollow particles with enhanced lithium storage properties. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1707-1713                      | 35.4  | 194 |
| 172 | Compressible Carbon Nanotube-Graphene Hybrid Aerogels with Superhydrophobicity and Superoleophilicity for Oil Sorption. <i>Environmental Science and Technology Letters</i> , <b>2014</b> , 1, 214-220                                      | 11    | 192 |
| 171 | Naturally Dried Graphene Aerogels with Superelasticity and Tunable Poisson's Ratio. <i>Advanced Materials</i> , <b>2016</b> , 28, 9223-9230   | 24    | 187 |
| 170 | A Top-Down Strategy toward 3D Carbon Nanosheet Frameworks Decorated with Hollow Nanostructures for Superior Lithium Storage. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7590-7598   | 15.6  | 168 |
| 169 | Nitrogen-doped activated carbon derived from prawn shells for high-performance supercapacitors. <i>Electrochimica Acta</i> , <b>2016</b> , 190, 1134-1141   | 6.7   | 167 |
| 168 | Hierarchical tubular structures constructed from ultrathin TiO <sub>2</sub> (B) nanosheets for highly reversible lithium storage. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1480-1483                                      | 35.4  | 166 |
| 167 | Metal-Organic Frameworks Mediated Synthesis of One-Dimensional Molybdenum-Based/Carbon Composites for Enhanced Lithium Storage. <i>ACS Nano</i> , <b>2018</b> , 12, 1990-2000   | 16.7  | 166 |
| 166 | Highly efficient synthesis of graphene/MnO <sub>2</sub> hybrids and their application for ultrafast oxidative decomposition of methylene blue. <i>Carbon</i> , <b>2014</b> , 66, 485-492  | 10.4  | 166 |
| 165 | Engineering hollow polyhedrons structured from carbon-coated CoSe <sub>2</sub> nanospheres bridged by CNTs with boosted sodium storage performance. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 13591-13600                  | 13    | 160 |
| 164 | Highly Stretchable and Ultrasensitive Strain Sensor Based on Reduced Graphene Oxide Microtubes-Elastomer Composite. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 27432-9  | 9.5   | 159 |
| 163 | Mechanically robust honeycomb graphene aerogel multifunctional polymer composites. <i>Carbon</i> , <b>2015</b> , 93, 659-670  | 10.4  | 145 |
| 162 | A layered-template-nanospace-confinement strategy for production of corrugated graphene nanosheets from petroleum pitch for supercapacitors. <i>Chemical Engineering Journal</i> , <b>2016</b> , 297, 121-127                               | 14.7  | 142 |

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| 161 | NiCo-layered double hydroxides vertically assembled on carbon fiber papers as binder-free high-active electrocatalysts for water oxidation. <i>Carbon</i> , <b>2016</b> , 110, 1-7  | 10.4 | 137 |
| 160 | Ultrahigh Rate and Long-Life Sodium-Ion Batteries Enabled by Engineered Surface and Near-Surface Reactions. <i>Advanced Materials</i> , <b>2018</b> , 30, 1702486   | 24   | 130 |
| 159 | Nitrogen-Doped Graphene Nanoribbons with Surface Enriched Active Sites and Enhanced Performance for Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500180   | 21.8 | 126 |
| 158 | Polymer/graphene hybrid aerogel with high compressibility, conductivity, and "sticky" superhydrophobicity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 3242-9  | 9.5  | 125 |
| 157 | Freestanding Flexible Li <sub>2</sub> S Paper Electrode with High Mass and Capacity Loading for High-Energy LiS Batteries. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700018  | 21.8 | 122 |
| 156 | MXene-Based Electrode with Enhanced Pseudocapacitance and Volumetric Capacity for Power-Type and Ultra-Long Life Lithium Storage. <i>ACS Nano</i> , <b>2018</b> , 12, 3928-3937   | 16.7 | 120 |
| 155 | Sandwich-Like Ultrathin TiS <sub>2</sub> Nanosheets Confined within N, S Codoped Porous Carbon as an Effective Polysulfide Promoter in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901872              | 21.8 | 119 |
| 154 | Highly atom-economic synthesis of graphene/MnO <sub>2</sub> hybrid composites for electrochemical supercapacitors. <i>Nanoscale</i> , <b>2013</b> , 5, 2999-3005  | 7.7  | 115 |
| 153 | Effect of activation time on the properties of activated carbons prepared by microwave-assisted activation for electric double layer capacitors. <i>Carbon</i> , <b>2010</b> , 48, 1662-1669  | 10.4 | 114 |
| 152 | Mass and Charge Transfer Coenhanced Oxygen Evolution Behaviors in CoFe-Layered Double Hydroxide Assembled on Graphene. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1500782  | 4.6  | 113 |
| 151 | Synthesis of Biomass-Derived Nitrogen-Doped Porous Carbon Nanosheets for High-Performance Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 8405-8412  | 8.3  | 106 |
| 150 | Graphene Sheets from Graphitized Anthracite Coal: Preparation, Decoration, and Application. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 5186-5192   | 4.1  | 104 |
| 149 | Scrutinizing Defects and Defect Density of Selenium-Doped Graphene for High-Efficiency Triiodide Reduction in Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 4682-4686                  | 16.4 | 101 |
| 148 | Interlayer expanded MoS <sub>2</sub> enabled by edge effect of graphene nanoribbons for high performance lithium and sodium ion batteries. <i>Carbon</i> , <b>2016</b> , 109, 461-471   | 10.4 | 100 |
| 147 | Boron-doped graphene as a high-efficiency counter electrode for dye-sensitized solar cells. <i>Chemical Communications</i> , <b>2014</b> , 50, 3328-30  | 5.8  | 99  |
| 146 | A Polymetallic Metal-Organic Framework-Derived Strategy toward Synergistically Multidoped Metal Oxide Electrodes with Ultralong Cycle Life and High Volumetric Capacity. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605332 | 15.6 | 90  |
| 145 | Dually fixed SnO <sub>2</sub> nanoparticles on graphene nanosheets by polyaniline coating for superior lithium storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 2444-51  | 9.5  | 90  |
| 144 | Graphene-mediated highly-dispersed MoS <sub>2</sub> nanosheets with enhanced triiodide reduction activity for dye-sensitized solar cells. <i>Carbon</i> , <b>2016</b> , 100, 474-483  | 10.4 | 88  |

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| 143 | Low temperature plasma synthesis of mesoporous Fe <sub>3</sub> O <sub>4</sub> nanorods grafted on reduced graphene oxide for high performance lithium storage. <i>Nanoscale</i> , <b>2014</b> , 6, 2286-91                           | 7.7  | 87 |
| 142 | Ultrafast Fabrication of Covalently Cross-linked Multifunctional Graphene Oxide Monoliths. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 4915-4921  | 15.6 | 86 |
| 141 | Ultrathin MoS <sub>2</sub> Nanosheets Supported on N-doped Carbon Nanoboxes with Enhanced Lithium Storage and Electrocatalytic Properties. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 7503-7506                                   | 3.6  | 86 |
| 140 | Flexible Paper-like Free-Standing Electrodes by Anchoring Ultrafine SnS Nanocrystals on Graphene Nanoribbons for High-Performance Sodium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 15484-15491 | 9.5  | 84 |
| 139 | Ultrasound-assisted preparation of electrospun carbon fiber/graphene electrodes for capacitive deionization: Importance and unique role of electrical conductivity. <i>Carbon</i> , <b>2016</b> , 103, 311-317                       | 10.4 | 84 |
| 138 | Synthesis of a carbon nanofiber/carbon foam composite from coal liquefaction residue for the separation of oil and water. <i>Carbon</i> , <b>2013</b> , 59, 530-536  | 10.4 | 82 |
| 137 | Ultrasound-assisted preparation of electrospun carbon nanofiber/graphene composite electrode for supercapacitors. <i>Journal of Power Sources</i> , <b>2013</b> , 243, 350-353   | 8.9  | 81 |
| 136 | 3D self-assembly synthesis of hierarchical porous carbon from petroleum asphalt for supercapacitors. <i>Carbon</i> , <b>2018</b> , 134, 345-353  | 10.4 | 78 |
| 135 | Robust NiCoP/CoP Heterostructures for Highly Efficient Hydrogen Evolution Electrocatalysis in Alkaline Solution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 15528-15536                                       | 9.5  | 77 |
| 134 | Chemically grafting graphene oxide to B,N co-doped graphene via ionic liquid and their superior performance for triiodide reduction. <i>Nano Energy</i> , <b>2016</b> , 25, 184-192  | 17.1 | 75 |
| 133 | Synthesis of ultrathin hollow carbon shell from petroleum asphalt for high-performance anode material in lithium-ion batteries. <i>Chemical Engineering Journal</i> , <b>2016</b> , 286, 632-639                                     | 14.7 | 75 |
| 132 | Preparation of carbon nanosheets from petroleum asphalt via recyclable molten-salt method for superior lithium and sodium storage. <i>Carbon</i> , <b>2017</b> , 122, 344-351  | 10.4 | 70 |
| 131 | Nanopore-confined g-C <sub>3</sub> N <sub>4</sub> nanodots in N, S co-doped hollow porous carbon with boosted capacity for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 7133-7141            | 13   | 67 |
| 130 | Preparation of porous carbons from petroleum coke by different activation methods. <i>Fuel</i> , <b>2005</b> , 84, 1992-1997   | 7.1  | 67 |
| 129 | Nitrogen-rich carbon coupled multifunctional metal oxide/graphene nanohybrids for long-life lithium storage and efficient oxygen reduction. <i>Nano Energy</i> , <b>2015</b> , 12, 578-587   | 17.1 | 66 |
| 128 | Lithiation-Induced Vacancy Engineering of Co <sub>3</sub> O <sub>4</sub> with Improved Faradic Reactivity for High-Performance Supercapacitor. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004172                      | 15.6 | 63 |
| 127 | Three-dimensional ZnMn <sub>2</sub> O <sub>4</sub> /porous carbon framework from petroleum asphalt for high performance lithium-ion battery. <i>Electrochimica Acta</i> , <b>2015</b> , 180, 164-172                                 | 6.7  | 62 |
| 126 | Dual integration system endowing two-dimensional titanium disulfide with enhanced triiodide reduction performance in dye-sensitized solar cells. <i>Nano Energy</i> , <b>2016</b> , 22, 59-69  | 17.1 | 59 |

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| 125 | Highly efficient low-temperature plasma-assisted modification of TiO <sub>2</sub> nanosheets with exposed {001} facets for enhanced visible-light photocatalytic activity. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 14763-70                                      | 4.8  | 59 |
| 124 | Two-dimensional graphene-like N, Co-codoped carbon nanosheets derived from ZIF-67 polyhedrons for efficient oxygen reduction reactions. <i>Chemical Communications</i> , <b>2017</b> , 53, 7840-7843   | 5.8  | 58 |
| 123 | Low-temperature plasma-assisted preparation of graphene supported palladium nanoparticles with high hydrodesulfurization activity. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14363   |      | 56 |
| 122 | Toward commercial-level mass-loading electrodes for supercapacitors: opportunities, challenges and perspectives. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 576-601   | 35.4 | 56 |
| 121 | Nitrogen-doped carbon nanotubes decorated with cobalt nanoparticles derived from zeolitic imidazolate framework-67 for highly efficient oxygen reduction reaction electrocatalysis. <i>Carbon</i> , <b>2018</b> , 132, 580-588   | 10.4 | 52 |
| 120 | Double-Shelled Nanocages with Cobalt Hydroxide Inner Shell and Layered Double Hydroxides Outer Shell as High-Efficiency Polysulfide Mediator for Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 4050-4054   | 3.6  | 51 |
| 119 | Microwave-assisted synthesis of MoS <sub>2</sub> /graphene nanocomposites for efficient hydrodesulfurization. <i>Fuel</i> , <b>2014</b> , 119, 163-169   | 7.1  | 51 |
| 118 | Low temperature plasma-mediated synthesis of graphene nanosheets for supercapacitor electrodes. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 6061   |      | 51 |
| 117 | Highly controllable and green reduction of graphene oxide to flexible graphene film with high strength. <i>Materials Research Bulletin</i> , <b>2013</b> , 48, 4797-4803   | 5.1  | 50 |
| 116 | Nitrogen and phosphorus dual-doped graphene as a metal-free high-efficiency electrocatalyst for triiodide reduction. <i>Nanoscale</i> , <b>2016</b> , 8, 17458-17464   | 7.7  | 50 |
| 115 | Accelerating polysulfide redox conversion on bifunctional electrocatalytic electrode for stable Li-S batteries. <i>Energy Storage Materials</i> , <b>2019</b> , 20, 98-107   | 19.4 | 50 |
| 114 | A Universal Converse Voltage Process for Triggering Transition Metal Hybrids In Situ Phase Restruction toward Ultrahigh-Rate Supercapacitors. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901241   | 24   | 48 |
| 113 | Operando Revealing Dynamic Reconstruction of NiCo Carbonate Hydroxide for High-Rate Energy Storage. <i>Joule</i> , <b>2020</b> , 4, 673-687  | 27.8 | 48 |
| 112 | Nitrogen-doped hierarchical porous carbon derived from metal-organic aerogel for high performance lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , <b>2017</b> , 26, 1282-1290   | 12   | 47 |
| 111 | Supramolecular polymerization-assisted synthesis of nitrogen and sulfur dual-doped porous graphene networks from petroleum coke as efficient metal-free electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 11331-11339 | 13   | 45 |
| 110 | Laser Irradiation of Electrode Materials for Energy Storage and Conversion. <i>Matter</i> , <b>2020</b> , 3, 95-126  | 12.7 | 44 |
| 109 | A green and template recyclable approach to prepare Fe <sub>3</sub> O <sub>4</sub> /porous carbon from petroleum asphalt for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 695, 2612-2618  | 5.7  | 44 |
| 108 | Highly stable lithium-sulfur batteries based on p-n heterojunctions embedded on hollow sheath carbon propelling polysulfides conversion. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 9230-9240  | 13   | 43 |

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|-----|---|------|----|
| 107 | Electrochemical and Capacitive Properties of Carbon Dots/Reduced Graphene Oxide Supercapacitors. <i>Nanomaterials</i> , <b>2016</b> , 6,  | 5.4  | 43 |
| 106 | Synthesis of layered microporous carbons from coal tar by directing, space-confinement and self-sacrificed template strategy for supercapacitors. <i>Electrochimica Acta</i> , <b>2017</b> , 246, 634-642                                 | 6.7  | 42 |
| 105 | Polymer casting of ultralight graphene aerogels for the production of conductive nanocomposites with low filling content. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 3756-3760  | 13   | 42 |
| 104 | Intrinsic Defect-Rich Hierarchically Porous Carbon Architectures Enabling Enhanced Capture and Catalytic Conversion of Polysulfides. <i>ACS Nano</i> , <b>2020</b> , 14, 6222-6231  | 16.7 | 41 |
| 103 | Lattice distortion induced internal electric field in TiO photoelectrode for efficient charge separation and transfer. <i>Nature Communications</i> , <b>2020</b> , 11, 2129  | 17.4 | 41 |
| 102 | Graphene oxide-induced synthesis of button-shaped amorphous Fe <sub>2</sub> O <sub>3</sub> /rGO/CNFs films as flexible anode for high-performance lithium-ion batteries. <i>Chemical Engineering Journal</i> , <b>2019</b> , 369, 215-222 | 14.7 | 40 |
| 101 | Towards efficient electrocatalysts for oxygen reduction by doping cobalt into graphene-supported graphitic carbon nitride. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 19657-19661   | 13   | 40 |
| 100 | Green fabrication of magnetic recoverable graphene/MnFe <sub>2</sub> O <sub>4</sub> hybrids for efficient decomposition of methylene blue and the Mn/Fe redox synergetic mechanism. <i>RSC Advances</i> , <b>2016</b> , 6, 104549-104555  | 3.7  | 38 |
| 99  | Multifunctional nitrogen-doped graphene nanoribbon aerogels for superior lithium storage and cell culture. <i>Nanoscale</i> , <b>2016</b> , 8, 2159-67  | 7.7  | 38 |
| 98  | Graphene oxide liquid crystal Pickering emulsions and their assemblies. <i>Carbon</i> , <b>2015</b> , 85, 16-23   | 10.4 | 38 |
| 97  | Electrolysis removal of methyl orange dye from water by electrospun activated carbon fibers modified with carbon nanotubes. <i>Chemical Engineering Journal</i> , <b>2014</b> , 253, 73-77  | 14.7 | 36 |
| 96  | A Portable and Efficient Solar-Rechargeable Battery with Ultrafast Photo-Charge/Discharge Rate. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900872   | 21.8 | 35 |
| 95  | Self-Supported Amorphous SnO <sub>2</sub> /TiO <sub>2</sub> Nanocomposite Films with Improved Electrochemical Performance for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A3072-A3078       | 3.9  | 34 |
| 94  | Boosting the performance of hybrid supercapacitors through redox electrolyte-mediated capacity balancing. <i>Nano Energy</i> , <b>2020</b> , 68, 104226   | 17.1 | 33 |
| 93  | Sulfur bridges between Co <sub>9</sub> S <sub>8</sub> nanoparticles and carbon nanotubes enabling robust oxygen electrocatalysis. <i>Carbon</i> , <b>2019</b> , 144, 259-268  | 10.4 | 33 |
| 92  | An effective graphene confined strategy to construct active edge sites-enriched nanosheets with enhanced oxygen evolution. <i>Carbon</i> , <b>2018</b> , 126, 437-442   | 10.4 | 32 |
| 91  | Compressible graphene aerogel supported CoO nanostructures as a binder-free electrode for high-performance lithium-ion batteries. <i>RSC Advances</i> , <b>2015</b> , 5, 8929-8932  | 3.7  | 31 |
| 90  | Design and Fabrication of Hierarchical NiCoP-MOF Heterostructure with Enhanced Pseudocapacitive Properties. <i>Small</i> , <b>2021</b> , 17, e2100353   | 11   | 31 |

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|----|---|------|----|
| 89 | Unusual Formation of CoSe@carbon Nanoboxes, which have an Inhomogeneous Shell, for Efficient Lithium Storage. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 9666-9670   | 3.6  | 31 |
| 88 | Microwave-Assisted Ultrafast Synthesis of Molybdenum Carbide Nanoparticles Grown on Carbon Matrix for Efficient Hydrogen Evolution Reaction. <i>Small Methods</i> , <b>2019</b> , 3, 1900259                              | 12.8 | 30 |
| 87 | Heavy oil-derived carbon for energy storage applications. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 70661-7082   | 3.0  | 29 |
| 86 | Chemically patterned polyaniline arrays located on pyrolytic graphene for supercapacitors. <i>Carbon</i> , <b>2014</b> , 80, 799-807  | 10.4 | 28 |
| 85 | Influence of pore structures on the electrochemical performance of asphaltene-based ordered mesoporous carbons. <i>Microporous and Mesoporous Materials</i> , <b>2013</b> , 174, 67-73                                    | 5.3  | 28 |
| 84 | Promoting the electroreduction of CO <sub>2</sub> with oxygen vacancies on a plasma-activated SnO <sub>x</sub> /carbon foam monolithic electrode. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 1779-1786    | 13   | 28 |
| 83 | Reacquainting the Electrochemical Conversion Mechanism of FeS Sodium-Ion Batteries by Operando Magnetometry. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 12800-12808                             | 16.4 | 28 |
| 82 | Rational design of metal oxide hollow nanostructures decorated carbon nanosheets for superior lithium storage. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 17718-17725                                     | 13   | 27 |
| 81 | Green and scalable synthesis of porous carbon nanosheet-assembled hierarchical architectures for robust capacitive energy harvesting. <i>Carbon</i> , <b>2019</b> , 152, 537-544  | 10.4 | 26 |
| 80 | Nitrogen-doped tubular/porous carbon channels implanted on graphene frameworks for multiple confinement of sulfur and polysulfides. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 10380-10386                | 13   | 25 |
| 79 | Polyethyleneimine-Mediated Fabrication of Two-Dimensional Cobalt Sulfide/Graphene Hybrid Nanosheets for High-Performance Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 26235-26242   | 9.5  | 25 |
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| 77 | Manipulation of interlayer spacing and surface charge of carbon nanosheets for robust lithium/sodium storage. <i>Carbon</i> , <b>2019</b> , 153, 372-380  | 10.4 | 24 |
| 76 | Facile Fabrication of Bicomponent CoO/CoFe <sub>2</sub> O <sub>4</sub> -N-Doped Graphene Hybrids with Ultrahigh Lithium Storage Capacity. <i>Particle and Particle Systems Characterization</i> , <b>2015</b> , 32, 91-97 | 3.1  | 24 |
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| 74 | Covalent bonds-integrated graphene foam with superb electromechanical properties as elastic conductor and compressive sensor. <i>Carbon</i> , <b>2019</b> , 147, 206-213  | 10.4 | 23 |
| 73 | SnO <sub>2</sub> nanoflower arrays on an amorphous buffer layer as binder-free electrodes for flexible lithium-ion batteries. <i>Applied Surface Science</i> , <b>2020</b> , 527, 146910                                  | 6.7  | 23 |
| 72 | Nitrogen-doped carbon microfibers with porous textures. <i>Carbon</i> , <b>2013</b> , 58, 128-133   | 10.4 | 23 |



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| 68 | Self-supported transition metal oxide electrodes for electrochemical energy storage. <i>Tungsten</i> , <b>2020</b> , 2, 337-361  | 4.6  | 22 |
| 67 | In-situ growth of highly uniform and single crystalline Co <sub>3</sub> O <sub>4</sub> nanocubes on graphene for efficient oxygen evolution. <i>Catalysis Communications</i> , <b>2017</b> , 88, 81-84                   | 3.2  | 21 |
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| 63 | Boosting the Pseudocapacitive and High Mass-Loaded Lithium/Sodium Storage through Bonding Polyoxometalate Nanoparticles on MXene Nanosheets. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2007636            | 15.6 | 19 |
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| 60 | Carbon-enabled microwave chemistry: From interaction mechanisms to nanomaterial manufacturing. <i>Nano Energy</i> , <b>2021</b> , 85, 106027   | 17.1 | 17 |
| 59 | An amorphous tin-based nanohybrid for ultra-stable sodium storage. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 18920-18927  | 13   | 16 |
| 58 | Recyclable catalyst for catalytic hydrogenation of phenylacetylene by coupling Pd nanoparticles with highly compressible graphene aerogels. <i>RSC Advances</i> , <b>2014</b> , 4, 59977-59980                           | 3.7  | 16 |
| 57 | Nitrogen-doped porous carbon with well-balanced charge conduction and electrocatalytic activity for dye-sensitized solar cells. <i>Carbon</i> , <b>2018</b> , 128, 201-204   | 10.4 | 16 |
| 56 | Layered double hydroxides derived NiCo-sulfide as a cathode material for aluminum ion batteries. <i>Electrochimica Acta</i> , <b>2020</b> , 344, 136174  | 6.7  | 15 |
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| 51 | Small graphite nanoflakes as an advanced cathode material for aluminum ion batteries. <i>Chemical Communications</i> , <b>2020</b> , 56, 1593-1596  | 5.8  | 13 |
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| 43 | Non-corrosive and low-cost synthesis of hierarchically porous carbon frameworks for high-performance lithium-ion capacitors. <i>Carbon</i> , <b>2021</b> , 173, 646-654   | 10.4 | 12 |
| 42 | Water-Soluble Salt Template-Assisted Anchor of Hollow FeS <sub>2</sub> Nanoparticle Inside 3D Carbon Skeleton to Achieve Fast Potassium-Ion Storage. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101343                       | 21.8 | 12 |
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| 38 | Three-dimensional hierarchical Na <sub>3</sub> Fe <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C with superior and fast sodium uptake for efficient hybrid capacitive deionization. <i>Desalination</i> , <b>2021</b> , 520, 115341    | 10.3 | 10 |
| 37 | Folding of graphene into elastic nanobelts. <i>Carbon</i> , <b>2014</b> , 76, 46-53   | 10.4 | 9  |
| 36 | Theoretical design and experimental synthesis of counter electrode for dye-sensitized solar cells: Amino-functionalized graphene. <i>Journal of Energy Chemistry</i> , <b>2016</b> , 25, 861-867  | 12   | 9  |

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| 34 | Imine-functionalized polysiloxanes for supramolecular elastomers with tunable mechanical properties. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 7721-7728   | 4.9  | 8 |
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| 12 | In Situ Construction of Nickel Sulfide Nano-Heterostructures for Highly Efficient Overall Urea Electrolysis. <i>ACS Sustainable Chemistry and Engineering</i> ,   | 8.3  | 2 |
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| 1  | Innentitelbild: Fe/Fe <sub>3</sub> C Boosts H <sub>2</sub> O <sub>2</sub> Utilization for Methane Conversion Overwhelming O <sub>2</sub> Generation (Angew. Chem. 16/2021). <i>Angewandte Chemie</i> , <b>2021</b> , 133, 8642-8642 | 3.6  |   |