# Xianluo Hu

## List of Publications by Citations



| 206 | 20,657 | 71 | 141 |
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| papers | citations | h-index | g-index |
| 211 | 22,466 | 9.9 | 7.13 |
| ext. papers | ext. citations | avg, IF | L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 206 | Nitrogen-doped porous carbon nanofiber webs as anodes for lithium ion batteries with a superhigh capacity and rate capability. *Advanced Materials*, **2012**, 24, 2047-50 | 24 | 1394 |
| 205 | Synthesis of functionalized 3D hierarchical porous carbon for high-performance supercapacitors. *Energy and Environmental Science*, **2013**, 6, 2497 | 35.4 | 935 |
| 204 | Development and challenges of LiFePO4 cathode material for lithium-ion batteries. *Energy and Environmental Science*, **2011**, 4, 269-284 | 35.4 | 898 |
| 203 | Na(+) intercalation pseudocapacitance in graphene-coupled titanium oxide enabling ultra-fast sodium storage and long-term cycling. *Nature Communications*, **2015**, 6, 6929 | 17.4 | 834 |
| 202 | Reconstruction of Conformal Nanoscale MnO on Graphene as a High-Capacity and Long-Life Anode Material for Lithium Ion Batteries. *Advanced Functional Materials*, **2013**, 23, 2436-2444 | 15.6 | 703 |
| 201 | MOF-derived porous ZnO/ZnFe2O4/C octahedra with hollow interiors for high-rate lithium-ion batteries. *Advanced Materials*, **2014**, 26, 6622-8 | 24 | 596 |
| 200 | α-Fe2O3 Nanorings Prepared by a Microwave-Assisted Hydrothermal Process and Their Sensing Properties. *Advanced Materials*, **2007**, 19, 2324-2329 | 24 | 563 |
| 199 | Self-assembled hierarchical MoO2/graphene nanoarchitectures and their application as a high-performance anode material for lithium-ion batteries. *ACS Nano*, **2011**, 5, 7100-7 | 16.7 | 548 |
| 198 | Functionalized N-doped interconnected carbon nanofibers as an anode material for sodium-ion storage with excellent performance. *Carbon*, **2013**, 55, 328-334 | 10.4 | 537 |
| 197 | Nanostructured Mo-based electrode materials for electrochemical energy storage. *Chemical Society Reviews*, **2015**, 44, 2376-404 | 58.5 | 498 |
| 196 | Microwave-assisted synthesis of single-crystalline tellurium nanorods and nanowires in ionic liquids. *Angewandte Chemie - International Edition*, **2004**, 43, 1410-4 | 16.4 | 471 |
| 195 | Design, fabrication, and modification of nanostructured semiconductor materials for environmental and energy applications. *Langmuir*, **2010**, 26, 3031-9 | 4 | 431 |
| 194 | Flexible Asymmetric Micro-Supercapacitors Based on Bi2O3 and MnO2 Nanoflowers: Larger Areal Mass Promises Higher Energy Density. *Advanced Energy Materials*, **2015**, 5, 1401882 | 21.8 | 408 |
| 193 | Electrospun porous ZnCo2O4 nanotubes as a high-performance anode material for lithium-ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 8916 | | 306 |
| 192 | α-Nickel Hydroxide Nanosheets and Their Thermal Decomposition to Nickel Oxide Nanosheets. *Journal of Physical Chemistry B*, **2004**, 108, 3488-3491 | 3.4 | 288 |
| 191 | A Bamboo-Inspired Nanostructure Design for Flexible, Foldable, and Twistable Energy Storage Devices. *Nano Letters*, **2015**, 15, 3899-906 | 11.5 | 257 |
| 190 | Constructing Hierarchical Tectorum-like α-Fe O /PPy Nanoarrays on Carbon Cloth for Solid-State Asymmetric Supercapacitors. *Angewandte Chemie - International Edition*, **2017**, 56, 1105-1110 | 16.4 | 247 |

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| 189 | Flexible membranes of MoS2/C nanofibers by electrospinning as binder-free anodes for high-performance sodium-ion batteries. *Scientific Reports*, **2015**, 5, 9254 | 4.9 | 235 |
| 188 | Continuous Aspect-Ratio Tuning and Fine Shape Control of Monodisperse Fe2O3 Nanocrystals by a Programmed Microwave Hydrothermal Method. *Advanced Functional Materials*, **2008**, 18, 880-887 | 15.6 | 235 |
| 187 | Sonochemical and microwave-assisted synthesis of linked single-crystalline ZnO rods. *Materials Chemistry and Physics*, **2004**, 88, 421-426 | 4.4 | 229 |
| 186 | Continuous Size Tuning of Monodisperse ZnO Colloidal Nanocrystal Clusters by a Microwave-Polyol Process and Their Application for Humidity Sensing. *Advanced Materials*, **2008**, 20, 4845-4850 | 24 | 226 |
| 185 | Morphosynthesis of a hierarchical MoO2 nanoarchitecture as a binder-free anode for lithium-ion batteries. *Energy and Environmental Science*, **2011**, 4, 2870 | 35.4 | 225 |
| 184 | Efficient removal of heavy metal ions from aqueous systems with the assembly of anisotropic layered double hydroxide nanocrystals@carbon nanosphere. *Environmental Science & Technology*, **2011**, 45, 6181-7 | 10.3 | 218 |
| 183 | Stripping voltammetric detection of mercury(II) based on a bimetallic Au-Pt inorganic-organic hybrid nanocomposite modified glassy carbon electrode. *Analytical Chemistry*, **2010**, 82, 567-73 | 7.8 | 193 |
| 182 | Flexible, High-Wettability and Fire-Resistant Separators Based on Hydroxyapatite Nanowires for Advanced Lithium-Ion Batteries. *Advanced Materials*, **2017**, 29, 1703548 | 24 | 192 |
| 181 | Sodium storage in Na-rich Na x FeFe(CN) 6 nanocubes. *Nano Energy*, **2015**, 12, 386-393 | 17.1 | 183 |
| 180 | Enhanced Cyclability for Sulfur Cathode Achieved by a Water-Soluble Binder. *Journal of Physical Chemistry C*, **2011**, 115, 15703-15709 | 3.8 | 175 |
| 179 | Emergent Pseudocapacitance of 2D Nanomaterials. *Advanced Energy Materials*, **2018**, 8, 1702930 | 21.8 | 172 |
| 178 | Flexible fiber-shaped supercapacitors based on hierarchically nanostructured composite electrodes. *Nano Research*, **2015**, 8, 1148-1158 | 10 | 165 |
| 177 | Flexible and Binder-Free Electrodes of Sb/rGO and Na3V2(PO4)3/rGO Nanocomposites for Sodium-Ion Batteries. *Small*, **2015**, 11, 3822-9 | 11 | 164 |
| 176 | Flexible Quasi-Solid-State Sodium-Ion Capacitors Developed Using 2D Metal Organic-Framework Array as Reactor. *Advanced Energy Materials*, **2018**, 8, 1702769 | 21.8 | 163 |
| 175 | Ultrafine MoO2 nanoparticles embedded in a carbon matrix as a high-capacity and long-life anode for lithium-ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 425-431 | | 163 |
| 174 | A Green and Facile Way to Prepare Granadilla-Like Silicon-Based Anode Materials for Li-Ion Batteries. *Advanced Functional Materials*, **2016**, 26, 440-446 | 15.6 | 161 |
| 173 | Bi4Ti3O12 nanofibers-BiOI nanosheets p-n junction: facile synthesis and enhanced visible-light photocatalytic activity. *Nanoscale*, **2013**, 5, 9764-72 | 7.7 | 155 |
| 172 | Controlled synthesis of mesoporous MnO/C networks by microwave irradiation and their enhanced lithium-storage properties. *ACS Applied Materials & Interfaces*, **2013**, 5, 1997-2003 | 9.5 | 152 |

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| 171 | Highly porous Li 4 Ti 5 O 12 /C nanofibers for ultrafast electrochemical energy storage. *Nano Energy* , **2014**, 10, 163-171 | 17.1 | 150 |
| 170 | Porous carbon-modified MnO disks prepared by a microwave-polyol process and their superior lithium-ion storage properties. *Journal of Materials Chemistry*, **2012**, 22, 19190 | | 143 |
| 169 | Ultrathin CoO/Graphene Hybrid Nanosheets: A Highly Stable Anode Material for Lithium-Ion Batteries. *Journal of Physical Chemistry C*, **2012**, 116, 20794-20799 | 3.8 | 142 |
| 168 | Superior lithium storage performance in nanoscaled MnO promoted by N-doped carbon webs. *Nano Energy*, **2013**, 2, 412-418 | 17.1 | 136 |
| 167 | Fast Production of Self-Assembled Hierarchical □Fe2O3Nanoarchitectures. *Journal of Physical Chemistry C*, **2007**, 111, 11180-11185 | 3.8 | 131 |
| 166 | Self-wrapped Sb/C nanocomposite as anode material for High-performance sodium-ion batteries. *Nano Energy*, **2015**, 16, 479-487 | 17.1 | 124 |
| 165 | Synthesis of porous Bi4Ti3O12 nanofibers by electrospinning and their enhanced visible-light-driven photocatalytic properties. *Nanoscale*, **2013**, 5, 2028-35 | 7.7 | 124 |
| 164 | Assembly of NiO/Ni(OH)2/PEDOT Nanocomposites on Contra Wires for Fiber-Shaped Flexible Asymmetric Supercapacitors. *ACS Applied Materials & Interfaces*, **2016**, 8, 1774-9 | 9.5 | 123 |
| 163 | Photochromism of WO3 Colloids Combined with TiO2 Nanoparticles. *Journal of Physical Chemistry B*, **2002**, 106, 12670-12676 | 3.4 | 123 |
| 162 | Encapsulation of MnO nanocrystals in electrospun carbon nanofibers as high-performance anode materials for lithium-ion batteries. *Scientific Reports*, **2014**, 4, 4229 | 4.9 | 121 |
| 161 | Layer-by-layer assembled MoO□graphene thin film as a high-capacity and binder-free anode for lithium-ion batteries. *Nanoscale*, **2012**, 4, 4707-11 | 7.7 | 121 |
| 160 | A SnO2@carbon nanocluster anode material with superior cyclability and rate capability for lithium-ion batteries. *Nanoscale*, **2013**, 5, 3298-305 | 7.7 | 120 |
| 159 | Conformal Conducting Polymer Shells on V2O5 Nanosheet Arrays as a High-Rate and Stable Zinc-Ion Battery Cathode. *Advanced Materials Interfaces*, **2019**, 6, 1801506 | 4.6 | 118 |
| 158 | High-performance aqueous sodium-ion batteries with K0.27MnO2 cathode and their sodium storage mechanism. *Nano Energy*, **2014**, 5, 97-104 | 17.1 | 115 |
| 157 | Coral-like □MnS composites with N-doped carbon as anode materials for high-performance lithium-ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 24026 | | 115 |
| 156 | An ordered cubic Im3m mesoporous Cr-TiO2 visible light photocatalyst. *Chemical Communications*, **2006**, 2717-9 | 5.8 | 113 |
| 155 | Rapid Mass Production of Hierarchically Porous ZnIn2S4 Submicrospheres via a Microwave-Solvothermal Process. *Crystal Growth and Design*, **2007**, 7, 2444-2448 | 3.5 | 110 |
| 154 | Nanostructured Ti-based anode materials for Na-ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 12001-12013 | 13 | 109 |

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| 153 | Electrospinning of carbon-coated MoO2 nanofibers with enhanced lithium-storage properties. *Physical Chemistry Chemical Physics*, **2011**, 13, 16735-40 | 3.6 | 109 |
| 152 | Self-assembled mesoporous CoO nanodisks as a long-life anode material for lithium-ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 13826 | | 108 |
| 151 | Conformal N-doped carbon on nanoporous TiO2 spheres as a high-performance anode material for lithium-ion batteries. *Journal of Materials Chemistry A*, **2013**, 1, 10375 | 13 | 103 |
| 150 | Effect of Vanadium Incorporation on Electrochemical Performance of LiFePO4 for Lithium-Ion Batteries. *Journal of Physical Chemistry C*, **2011**, 115, 13520-13527 | 3.8 | 102 |
| 149 | Synthesis of hierarchical MoS2 and its electrochemical performance as an anode material for lithium-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 3498-3504 | 13 | 99 |
| 148 | Mesopore-Induced Ultrafast Na -Storage in T-Nb O /Carbon Nanofiber Films toward Flexible High-Power Na-Ion Capacitors. *Small*, **2019**, 15, e1804539 | 11 | 95 |
| 147 | Morphology control of PbWO4 nano- and microcrystals via a simple, seedless, and high-yield wet chemical route. *Langmuir*, **2004**, 20, 1521-3 | 4 | 93 |
| 146 | Metal-organic framework derived ZnO/ZnFe2O4/C nanocages as stable cathode material for reversible lithium-oxygen batteries. *ACS Applied Materials & Interfaces*, **2015**, 7, 4947-54 | 9.5 | 92 |
| 145 | Electrospun sillenite Bi12MO20 (M = Ti, Ge, Si) nanofibers: general synthesis, band structure, and photocatalytic activity. *Physical Chemistry Chemical Physics*, **2013**, 15, 20698-705 | 3.6 | 92 |
| 144 | High-Yield Synthesis of Nickel and Nickel Phosphide Nanowires via Microwave-Assisted Processes. *Chemistry of Materials*, **2008**, 20, 6743-6749 | 9.6 | 89 |
| 143 | Facile synthesis of sandwiched Zn2GeO4-graphene oxide nanocomposite as a stable and high-capacity anode for lithium-ion batteries. *Nanoscale*, **2014**, 6, 924-30 | 7.7 | 84 |
| 142 | SiO2-Enhanced Structural Stability and Strong Adhesion with a New Binder of Konjac Glucomannan Enables Stable Cycling of Silicon Anodes for Lithium-Ion Batteries. *Advanced Energy Materials*, **2018**, 8, 1800434 | 21.8 | 83 |
| 141 | Microwave-Induced in situ synthesis of Zn2GeO4/N-doped graphene nanocomposites and their lithium-storage properties. *Chemistry - A European Journal*, **2013**, 19, 6027-33 | 4.8 | 79 |
| 140 | In Operando Mechanism Analysis on Nanocrystalline Silicon Anode Material for Reversible and Ultrafast Sodium Storage. *Advanced Materials*, **2017**, 29, 1604708 | 24 | 75 |
| 139 | Recent Advances in Porous Carbon Materials for Electrochemical Energy Storage. *Chemistry - an Asian Journal*, **2018**, 13, 1518-1529 | 4.5 | 73 |
| 138 | Facile fabrication of CuO nanosheets on Cu substrate as anode materials for electrochemical energy storage. *Journal of Alloys and Compounds*, **2014**, 586, 208-215 | 5.7 | 72 |
| 137 | Constructing Hierarchical Tectorum-like □Fe2O3/PPy Nanoarrays on Carbon Cloth for Solid-State Asymmetric Supercapacitors. *Angewandte Chemie*, **2017**, 129, 1125-1130 | 3.6 | 71 |
| 136 | Controllable growth of TiO2-B nanosheet arrays on carbon nanotubes as a high-rate anode material for lithium-ion batteries. *Carbon*, **2014**, 69, 302-310 | 10.4 | 71 |

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| 135 | Ultrahigh-Capacity and Fire-Resistant LiFePO4-Based Composite Cathodes for Advanced Lithium-Ion Batteries. *Advanced Energy Materials*, **2019**, 9, 1802930 | 21.8 | 67 |
| 134 | Hollow 0.3Li2MnO3□0.7LiNi(0.5)Mn(0.5)O2 microspheres as a high-performance cathode material for lithium-ion batteries. *Physical Chemistry Chemical Physics*, **2013**, 15, 2954-60 | 3.6 | 67 |
| 133 | Si-containing precursors for Si-based anode materials of Li-ion batteries: A review. *Energy Storage Materials*, **2016**, 4, 92-102 | 19.4 | 65 |
| 132 | Insight into the improvement of rate capability and cyclability in LiFePO4/polyaniline composite cathode. *Electrochimica Acta*, **2011**, 56, 2689-2695 | 6.7 | 63 |
| 131 | Enhanced electrochemical performance of LiNi 0.8 Co 0.15 Al 0.05 O 2 by nanoscale surface modification with Co 3 O 4. *Electrochimica Acta*, **2017**, 231, 294-299 | 6.7 | 62 |
| 130 | Synthesis and characterization of core-shell selenium/carbon colloids and hollow carbon capsules. *Chemistry - A European Journal*, **2005**, 12, 548-52 | 4.8 | 62 |
| 129 | Urchin-Like NiCo(CO)(OH)□0.11HO for Ultrahigh-Rate Electrochemical Supercapacitors: Structural Evolution from Solid to Hollow. *ACS Applied Materials & Interfaces*, **2017**, 9, 40655-40670 | 9.5 | 61 |
| 128 | Generalized Low-Temperature Synthesis of Nanocrystalline Rare-Earth Orthoferrites LnFeO3 (Ln = La, Pr, Nd, Sm, Eu, Gd). *Crystal Growth and Design*, **2008**, 8, 2061-2065 | 3.5 | 60 |
| 127 | A Si/C nanocomposite anode by ball milling for highly reversible sodium storage. *Electrochemistry Communications*, **2016**, 70, 8-12 | 5.1 | 57 |
| 126 | VO2/TiO2 Nanosponges as Binder-Free Electrodes for High-Performance Supercapacitors. *Scientific Reports*, **2015**, 5, 16012 | 4.9 | 56 |
| 125 | Surface modification of electrospun TiO2 nanofibers via layer-by-layer self-assembly for high-performance lithium-ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 4910 | | 56 |
| 124 | Mo2C-induced solid-phase synthesis of ultrathin MoS2 nanosheet arrays on bagasse-derived porous carbon frameworks for high-energy hybrid sodium-ion capacitors. *Journal of Materials Chemistry A*, **2018**, 6, 14742-14751 | 13 | 56 |
| 123 | TiO2-B nanosheets/anatase nanocrystals co-anchored on nanoporous graphene: in situ reduction-hydrolysis synthesis and their superior rate performance as an anode material. *Chemistry - A European Journal*, **2014**, 20, 1383-8 | 4.8 | 53 |
| 122 | Facile fabrication of porous Cr-doped SrTiO3 nanotubes by electrospinning and their enhanced visible-light-driven photocatalytic properties. *Journal of Materials Chemistry A*, **2015**, 3, 3935-3943 | 13 | 50 |
| 121 | Controlled hydrothermal synthesis and growth mechanism of various nanostructured films of copper and silver tellurides. *Chemistry - A European Journal*, **2006**, 12, 4185-90 | 4.8 | 50 |
| 120 | Microwave-assisted synthesis and in-situ self-assembly of coaxial Ag/C nanocables. *Chemical Communications*, **2005**, 2704-6 | 5.8 | 50 |
| 119 | Microwave-polyol Preparation of Single-crystalline Gold Nanorods and Nanowires. *Chemistry Letters*, **2003**, 32, 1140-1141 | 1.7 | 50 |
| 118 | Self-Assembling Hollow Carbon Nanobeads into Double-Shell Microspheres as a Hierarchical Sulfur Host for Sustainable Room-Temperature Sodium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 20422-20428 | 9.5 | 50 |

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| 117 | Coupling of bowl-like VS2 nanosheet arrays and carbon nanofiber enables ultrafast Na+-Storage and robust flexibility for sodium-ion hybrid capacitors. *Energy Storage Materials*, **2020**, 28, 91-100 | 19.4 | 49 |
| 116 | Li4Ti5O12 nanocrystallites for high-rate lithium-ion batteries synthesized by a rapid microwave-assisted solid-state process. *Electrochimica Acta*, **2012**, 63, 118-123 | 6.7 | 49 |
| 115 | Symmetric Electrodes for Electrochemical Energy-Storage Devices. *Advanced Science*, **2016**, 3, 1600115 | 13.6 | 49 |
| 114 | Adsorption of heavy metal ions by hierarchically structured magnetite-carbonaceous spheres. *Talanta*, **2012**, 101, 45-52 | 6.2 | 48 |
| 113 | Ultrafast Na+-storage in TiO2-coated MoS2@N-doped carbon for high-energy sodium-ion hybrid capacitors. *Energy Storage Materials*, **2019**, 23, 95-104 | 19.4 | 47 |
| 112 | Hierarchical self-assembly of Mn2Mo3O8□graphene nanostructures and their enhanced lithium-storage properties. *Journal of Materials Chemistry*, **2011**, 21, 17229 | | 47 |
| 111 | Architectural design and phase engineering of N/B-codoped TiO2(B)/anatase nanotube assemblies for high-rate and long-life lithium storage. *Journal of Materials Chemistry A*, **2015**, 3, 22591-22598 | 13 | 46 |
| 110 | Synthesis of amorphous FeOOH/reduced graphene oxide composite by infrared irradiation and its superior lithium storage performance. *ACS Applied Materials & Interfaces*, **2013**, 5, 10145-50 | 9.5 | 45 |
| 109 | Improved Electrochemical Performance in Li3V2(PO4)3 Promoted by Niobium-Incorporation. *Journal of the Electrochemical Society*, **2011**, 158, A924 | 3.9 | 44 |
| 108 | By what means should nanoscaled materials be constructed: molecule, medium, or human?. *Nanoscale*, **2010**, 2, 198-214 | 7.7 | 43 |
| 107 | Preparation of powders of selenium nanorods and nanowires by microwave-polyol method. *Materials Letters*, **2004**, 58, 1234-1236 | 3.3 | 43 |
| 106 | Binding TiO2-B nanosheets with N-doped carbon enables highly durable anodes for lithium-ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 8172-8179 | 13 | 43 |
| 105 | Highly Tough, Li-Metal Compatible Organic□Inorganic Double-Network Solvate Ionogel. *Advanced Energy Materials*, **2019**, 9, 1900257 | 21.8 | 42 |
| 104 | Bismuth oxyiodide nanosheets: a novel high-energy anode material for lithium-ion batteries. *Chemical Communications*, **2015**, 51, 2798-801 | 5.8 | 41 |
| 103 | SnO2-based composite coaxial nanocables with multi-walled carbon nanotube and polypyrrole as anode materials for lithium-ion batteries. *Electrochemistry Communications*, **2011**, 13, 1431-1434 | 5.1 | 41 |
| 102 | Microwave-Assisted Rapid Synthesis of Self-Assembled T-Nb O Nanowires for High-Energy Hybrid Supercapacitors. *Chemistry - A European Journal*, **2017**, 23, 4203-4209 | 4.8 | 40 |
| 101 | One-step synthesis of a silicon/hematite@carbon hybrid nanosheet/silicon sandwich-like composite as an anode material for Li-ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 4056-4061 | 13 | 40 |
| 100 | Facile synthesis of mesoporous 0.4Li2MnO3□0.6LiNi2/3Mn1/3O2 foams with superior performance for lithium-ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 14964 | | 40 |

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| 99 | Constructing Three-Dimensional Honeycombed Graphene/Silicon Skeletons for High-Performance Li-Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 31879-31886 | 9.5 | 39 |
| 98 | High-performance Li3V2(PO4)3/C cathode materials prepared via a sol–gel route with double carbon sources. *Journal of Alloys and Compounds*, **2012**, 513, 414-419 | 5.7 | 38 |
| 97 | Self-assembly of hybrid Fe2Mo3O8–reduced graphene oxide nanosheets with enhanced lithium storage properties. *Journal of Materials Chemistry A*, **2013**, 1, 4468 | 13 | 37 |
| 96 | Electrospun Conformal Li4Ti5O12/C Fibers for High-Rate Lithium-Ion Batteries. *ChemElectroChem*, **2014**, 1, 611-616 | 4.3 | 35 |
| 95 | Thermoregulating Separators Based on Phase-Change Materials for Safe Lithium-Ion Batteries. *Advanced Materials*, **2021**, 33, e2008088 | 24 | 35 |
| 94 | Lattice softening enables highly reversible sodium storage in anti-pulverization Bi–Sb alloy/carbon nanofibers. *Energy Storage Materials*, **2020**, 27, 270-278 | 19.4 | 34 |
| 93 | Electrospun porous LiNb3O8 nanofibers with enhanced lithium-storage properties. *Journal of Materials Chemistry A*, **2013**, 1, 15053 | 13 | 34 |
| 92 | Mass Production and Pore Size Control of Holey Carbon Microcages. *Angewandte Chemie - International Edition*, **2017**, 56, 13790-13794 | 16.4 | 34 |
| 91 | Poly(vinylpyrrolidone): a new reductant for preparation of tellurium nanorods, nanowires, and tubes from TeO2. *Nanotechnology*, **2006**, 17, 645-650 | 3.4 | 34 |
| 90 | Microwave-assisted synthesis of a superparamagnetic surface-functionalized porous Fe3O4/C nanocomposite. *Chemistry - an Asian Journal*, **2006**, 1, 605-10 | 4.5 | 33 |
| 89 | Facile synthesis of Si@void@C nanocomposites from low-cost microsized Si as anode materials for lithium-ion batteries. *Applied Surface Science*, **2019**, 479, 287-295 | 6.7 | 30 |
| 88 | Thermotolerant separators for safe lithium-ion batteries under extreme conditions. *Journal of Materials Chemistry A*, **2020**, 8, 20294-20317 | 13 | 30 |
| 87 | Sol-gel nanocasting synthesis of patterned hierarchical LaFeO3 fibers with enhanced catalytic CO oxidation activity. *Nanoscale*, **2011**, 3, 974-6 | 7.7 | 29 |
| 86 | Self-assembled chitosan nanotemplates for biomineralization of controlled calcite nanoarchitectures. *ACS Applied Materials & Interfaces*, **2009**, 1, 26-9 | 9.5 | 29 |
| 85 | Microwave-assisted polythiol reduction method: a new solid–liquid route to fast preparation of silver nanowires. *Materials Letters*, **2004**, 58, 1517-1519 | 3.3 | 29 |
| 84 | Microwave-induced solid-state synthesis of TiO2(B) nanobelts with enhanced lithium-storage properties. *Journal of Nanoparticle Research*, **2012**, 14, 1 | 2.3 | 28 |
| 83 | Bifunctional sensor of pentachlorophenol and copper ions based on nanostructured hybrid films of humic acid and exfoliated layered double hydroxide via a facile layer-by-layer assembly. *Analytica Chimica Acta*, **2013**, 785, 34-42 | 6.6 | 28 |
| 82 | Ionic-Liquid-Assisted Synthesis of Self-Assembled TiO2-B Nanosheets under Microwave Irradiation and Their Enhanced Lithium Storage Properties. *European Journal of Inorganic Chemistry*, **2013**, 2013, 5320-5328 | 2.3 | 28 |

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|---|---|---|---|
| 81 | Controlled synthesis of monodispersed hematite microcubes and their properties. *CrystEngComm*, **2011**, 13, 7114 | 3.3 | 28 |
| 80 | Holey Graphene for Electrochemical Energy Storage. *Cell Reports Physical Science*, **2020**, 1, 100215 | 6.1 | 28 |
| 79 | Morphosynthesis of 3D Macroporous Garnet Frameworks and Perfusion of Polymer-Stabilized Lithium Salts for Flexible Solid-State Hybrid Electrolytes. *Advanced Materials Interfaces*, **2019**, 6, 1900200 | 4.6 | 27 |
| 78 | A sulfurization-based oligomeric sodium salt as a high-performance organic anode for sodium ion batteries. *Chemical Communications*, **2016**, 52, 11207-10 | 5.8 | 27 |
| 77 | Chitosan Nanostructures with Controllable Morphology Produced by a Nonaqueous Electrochemical Approach. *Advanced Materials*, **2008**, 20, 2111-2115 | 24 | 27 |
| 76 | Rational Design of Three-Dimensional Hierarchical Nanomaterials for Asymmetric Supercapacitors. *ChemElectroChem*, **2017**, 4, 2428-2441 | 4.3 | 26 |
| 75 | Tellurium Nanorods and Nanowires Prepared by the Microwave-Polyol Method. *Chemistry Letters*, **2004**, 33, 760-761 | 1.7 | 26 |
| 74 | Tandem MoP nanocrystals with rich grain boundaries for efficient electrocatalytic hydrogen evolution. *Chemical Communications*, **2018**, 54, 2502-2505 | 5.8 | 25 |
| 73 | Top-Down Synthesis of Silicon/Carbon Composite Anode Materials for Lithium-Ion Batteries: Mechanical Milling and Etching. *ChemSusChem*, **2020**, 13, 1923-1946 | 8.3 | 25 |
| 72 | A facile way to fabricate double-shell pomegranate-like porous carbon microspheres for high-performance Li-ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 12073-12079 | 13 | 24 |
| 71 | Biomaterial-assisted synthesis of AgCl@Ag concave cubes with efficient visible-light-driven photocatalytic activity. *CrystEngComm*, **2014**, 16, 649-653 | 3.3 | 24 |
| 70 | Safer Lithium-Ion Batteries from the Separator Aspect: Development and Future Perspectives. *Energy and Environmental Materials*, **2021**, 4, 336-362 | 13 | 24 |
| 69 | Surface modification of MoOxSy on porous TiO2 nanospheres as an anode material with highly reversible and ultra-fast lithium storage properties. *Journal of Materials Chemistry A*, **2013**, 1, 15128 | 13 | 23 |
| 68 | WO3/TiO2 microstructures for enhanced photocatalytic oxidation. *Separation and Purification Technology*, **2012**, 91, 67-72 | 8.3 | 22 |
| 67 | Large-scale synthesis of WOx□DA nanobelts and their application as photoswitches. *CrystEngComm*, **2011**, 13, 2237 | 3.3 | 22 |
| 66 | A mesoporous TiO2□Nx photocatalyst prepared by sonication pretreatment and in situ pyrolysis. *Separation and Purification Technology*, **2009**, 67, 152-157 | 8.3 | 22 |
| 65 | Fabricating strongly coupled V2O5@PEDOT nanobelts/graphene hybrid films with high areal capacitance and facile transferability for transparent solid-state supercapacitors. *Energy Storage Materials*, **2020**, 27, 150-158 | 19.4 | 21 |
| 64 | Nanoengineering S-Doped TiO2 Embedded Carbon Nanosheets for Pseudocapacitance-Enhanced Li-Ion Capacitors. *ACS Applied Energy Materials*, **2018**, 1, 1708-1715 | 6.1 | 21 |

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| 63 | Thermally Durable Lithium-Ion Capacitors with High Energy Density from All Hydroxyapatite Nanowire-Enabled Fire-Resistant Electrodes and Separators. *Advanced Energy Materials*, **2019**, 9, 1902497 | 21.8 | 21 |
| 62 | Self-assembled 3D hierarchical sheaf-like Nb3O7(OH) nanostructures with enhanced photocatalytic activity. *Nanoscale*, **2015**, 7, 1963-9 | 7.7 | 20 |
| 61 | A Trojan Horse Camouflage Strategy for High-Performance Cellulose Paper and Separators. *Advanced Functional Materials*, **2020**, 30, 2002169 | 15.6 | 20 |
| 60 | Thermoelectric Solid-Oxide Fuel Cells with Extra Power Conversion from Waste Heat. *Chemistry of Materials*, **2012**, 24, 1401-1403 | 9.6 | 20 |
| 59 | Fast microwave-assisted synthesis of Nb-doped Li4Ti5O12 for high-rate lithium-ion batteries. *Journal of Nanoparticle Research*, **2014**, 16, 1 | 2.3 | 19 |
| 58 | Evaluation of Ca3Co2O6 as cathode material for high-performance solid-oxide fuel cell. *Scientific Reports*, **2013**, 3, 1125 | 4.9 | 19 |
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