

Yu-Liang Cao

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247
papers

21,718
citations

76
h-index

143
g-index

258
ext. papers

24,936
ext. citations

10.7
avg, IF

7.17
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 247 | Sodium ion insertion in hollow carbon nanowires for battery applications. <i>Nano Letters</i> , 2012 , 12, 3783-711.5 | 11.5 | 1322 |
| 246 | A soft approach to encapsulate sulfur: polyaniline nanotubes for lithium-sulfur batteries with long cycle life. <i>Advanced Materials</i> , 2012 , 24, 1176-81 | 24 | 881 |
| 245 | Reversible sodium ion insertion in single crystalline manganese oxide nanowires with long cycle life. <i>Advanced Materials</i> , 2011 , 23, 3155-60 | 24 | 581 |
| 244 | High capacity Na-storage and superior cyclability of nanocomposite Sb/C anode for Na-ion batteries. <i>Chemical Communications</i> , 2012 , 48, 7070-2 | 5.8 | 560 |
| 243 | High capacity, reversible alloying reactions in SnSb/C nanocomposites for Na-ion battery applications. <i>Chemical Communications</i> , 2012 , 48, 3321-3 | 5.8 | 538 |
| 242 | Sb ₂ S ₃ nanofibers with long cycle life as an anode material for high-performance sodium-ion batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 323-328 | 35.4 | 536 |
| 241 | High capacity and rate capability of amorphous phosphorus for sodium ion batteries. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 4633-6 | 16.4 | 535 |
| 240 | TiO ₂ -Coated Multilayered SnO ₂ Hollow Microspheres for Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2009 , 21, 3663-3667 | 24 | 512 |
| 239 | Manipulating Adsorption/Insertion Mechanisms in Nanostructured Carbon Materials for High-Efficiency Sodium Ion Storage. <i>Advanced Energy Materials</i> , 2017 , 7, 1700403 | 21.8 | 486 |
| 238 | Optimization of mesoporous carbon structures for lithium-sulfur battery applications. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16603 | | 382 |
| 237 | Hierarchical carbon framework wrapped Na ₃ V ₂ (PO ₄) ₃ as a superior high-rate and extended lifespan cathode for sodium-ion batteries. <i>Advanced Materials</i> , 2015 , 27, 5895-900 | 24 | 372 |
| 236 | Non-flammable electrolytes with high salt-to-solvent ratios for Li-ion and Li-metal batteries. <i>Nature Energy</i> , 2018 , 3, 674-681 | 62.3 | 357 |
| 235 | Synergistic Na-storage reactions in Sn ₄ P ₃ as a high-capacity, cycle-stable anode of Na-ion batteries. <i>Nano Letters</i> , 2014 , 14, 1865-9 | 11.5 | 353 |
| 234 | Routes to High Energy Cathodes of Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1501727 | 21.8 | 331 |
| 233 | Sandwich-type functionalized graphene sheet-sulfur nanocomposite for rechargeable lithium batteries. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 7660-5 | 3.6 | 324 |
| 232 | Prussian Blue Cathode Materials for Sodium-Ion Batteries and Other Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1702619 | 21.8 | 299 |
| 231 | Hard carbon nanoparticles as high-capacity, high-stability anodic materials for Na-ion batteries. <i>Nano Energy</i> , 2016 , 19, 279-288 | 17.1 | 289 |

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| 230 | Low-Defect and Low-Porosity Hard Carbon with High Coulombic Efficiency and High Capacity for Practical Sodium Ion Battery Anode. <i>Advanced Energy Materials</i> , 2018 , 8, 1703238 | 21.8 | 262 |
| 229 | Bridging the academic and industrial metrics for next-generation practical batteries. <i>Nature Nanotechnology</i> , 2019 , 14, 200-207 | 28.7 | 255 |
| 228 | High Capacity and Rate Capability of Amorphous Phosphorus for Sodium Ion Batteries. <i>Angewandte Chemie</i> , 2013 , 125, 4731-4734 | 3.6 | 245 |
| 227 | A low-cost and environmentally benign aqueous rechargeable sodium-ion battery based on NaTi ₂ (PO ₄) ₃ Na ₂ NiFe(CN) ₆ intercalation chemistry. <i>Electrochemistry Communications</i> , 2013 , 31, 145-148 | 5.1 | 238 |
| 226 | P2-type Na _{0.67} Mn _{0.65} Fe _{0.2} Ni _{0.15} O ₂ Cathode Material with High-capacity for Sodium-ion Battery. <i>Electrochimica Acta</i> , 2014 , 116, 300-305 | 6.7 | 236 |
| 225 | Single-crystal FeFe(CN) ₆ nanoparticles: a high capacity and high rate cathode for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10130 | 13 | 236 |
| 224 | Nanosized Na ₄ Fe(CN) ₆ /C Composite as a Low-Cost and High-Rate Cathode Material for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2012 , 2, 410-414 | 21.8 | 228 |
| 223 | Highly Crystallized Na _{0.5} Fe(CN) ₆ with Suppressed Lattice Defects as Superior Cathode Material for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5393-9 | 9.5 | 220 |
| 222 | A honeycomb-layered Na ₃ Ni ₂ SbO ₆ : a high-rate and cycle-stable cathode for sodium-ion batteries. <i>Advanced Materials</i> , 2014 , 26, 6301-6 | 24 | 217 |
| 221 | In Situ Generation of Few-Layer Graphene Coatings on SnO ₂ -SiC Core-Shell Nanoparticles for High-Performance Lithium-Ion Storage. <i>Advanced Energy Materials</i> , 2012 , 2, 95-102 | 21.8 | 216 |
| 220 | Synthesis and electrochemical behaviors of layered Na _{0.67} [Mn _{0.65} Co _{0.2} Ni _{0.15}]O ₂ microflakes as a stable cathode material for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3895 | 13 | 215 |
| 219 | Mesoporous amorphous FePO ₄ nanospheres as high-performance cathode material for sodium-ion batteries. <i>Nano Letters</i> , 2014 , 14, 3539-43 | 11.5 | 210 |
| 218 | Phosphate Framework Electrode Materials for Sodium Ion Batteries. <i>Advanced Science</i> , 2017 , 4, 1600392 | 13.6 | 200 |
| 217 | A low cost, all-organic Na-ion battery based on polymeric cathode and anode. <i>Scientific Reports</i> , 2013 , 3, 2671 | 4.9 | 197 |
| 216 | Low-defect Prussian blue nanocubes as high capacity and long life cathodes for aqueous Na-ion batteries. <i>Nano Energy</i> , 2015 , 13, 117-123 | 17.1 | 196 |
| 215 | Enhanced high-rate capability and cycling stability of Na-stabilized layered Li _{1.2} [Co _{0.13} Ni _{0.13} Mn _{0.54}]O ₂ cathode material. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11397 | 13 | 194 |
| 214 | Template-Free Hydrothermal Synthesis of Nanoembossed Mesoporous LiFePO ₄ Microspheres for High-Performance Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3477-3482 | 3.8 | 192 |
| 213 | Energetic aqueous rechargeable sodium-ion battery based on Na ₂ CuFe(CN) ₆ -NaTi ₂ (PO ₄) ₃ intercalation chemistry. <i>ChemSusChem</i> , 2014 , 7, 407-11 | 8.3 | 182 |

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| 212 | 3D Graphene Decorated NaTi ₂ (PO ₄) ₃ Microspheres as a Superior High-Rate and Ultracycle-Stable Anode Material for Sodium Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1502197 | 21.8 | 177 |
| 211 | Reversible 3-Li storage reactions of amorphous phosphorus as high capacity and cycling-stable anodes for Li-ion batteries. <i>Chemical Communications</i> , 2012 , 48, 8931-3 | 5.8 | 174 |
| 210 | High-Performance Flexible Freestanding Anode with Hierarchical 3D Carbon-Networks/Fe S /Graphene for Applicable Sodium-Ion Batteries. <i>Advanced Materials</i> , 2019 , 31, e1806664 | 24 | 173 |
| 209 | Extended Adsorption-Insertion Model: A New Insight into the Sodium Storage Mechanism of Hard Carbons. <i>Advanced Energy Materials</i> , 2019 , 9, 1901351 | 21.8 | 165 |
| 208 | Recent Advances in Sodium-Ion Battery Materials. <i>Electrochemical Energy Reviews</i> , 2018 , 1, 294-323 | 29.3 | 154 |
| 207 | Recent Progress in Rechargeable Sodium-Ion Batteries: toward High-Power Applications. <i>Small</i> , 2019 , 15, e1805427 | 11 | 149 |
| 206 | Electrodeposited polypyrrole/carbon nanotubes composite films electrodes for neural interfaces. <i>Biomaterials</i> , 2010 , 31, 5169-81 | 15.6 | 149 |
| 205 | Conductive rigid skeleton supported silicon as high-performance Li-ion battery anodes. <i>Nano Letters</i> , 2012 , 12, 4124-30 | 11.5 | 146 |
| 204 | Improved electrochemical performances of nanocrystalline Li[Li _{0.2} Mn _{0.54} Ni _{0.13} Co _{0.13}]O ₂ cathode material for Li-ion batteries. <i>RSC Advances</i> , 2012 , 2, 3423 | 3.7 | 144 |
| 203 | Poly(vinyl alcohol)/poly(acrylic acid) hydrogel coatings for improving electrode-neural tissue interface. <i>Biomaterials</i> , 2009 , 30, 4143-51 | 15.6 | 143 |
| 202 | Enhanced electrochemical stability of Al-doped LiMn ₂ O ₄ synthesized by a polymer-pyrolysis method. <i>Electrochimica Acta</i> , 2008 , 54, 545-550 | 6.7 | 140 |
| 201 | A Sn ₂ SnS ₄ nanocomposite as anode host materials for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7181 | 13 | 126 |
| 200 | Graphene-Scaffolded NaV(PO) ₄ Microsphere Cathode with High Rate Capability and Cycling Stability for Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7177-7184 | 9.5 | 123 |
| 199 | Recent Progress in Iron-Based Electrode Materials for Grid-Scale Sodium-Ion Batteries. <i>Small</i> , 2018 , 14, 1703116 | 11 | 118 |
| 198 | A tin(II) sulfide-carbon anode material based on combined conversion and alloying reactions for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16424-16428 | 13 | 118 |
| 197 | Sulfur/carbon nanocomposite-filled polyacrylonitrile nanofibers as a long life and high capacity cathode for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7406-7412 | 13 | 115 |
| 196 | Vacancy-Free Prussian Blue Nanocrystals with High Capacity and Superior Cyclability for Aqueous Sodium-Ion Batteries. <i>ChemNanoMat</i> , 2015 , 1, 188-193 | 3.5 | 115 |
| 195 | Electrochromic Metal Oxides: Recent Progress and Prospect. <i>Advanced Electronic Materials</i> , 2018 , 4, 1806185 | 18.5 | 114 |

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| 194 | TiO ₂ ceramic-grafted polyethylene separators for enhanced thermostability and electrochemical performance of lithium-ion batteries. <i>Journal of Membrane Science</i> , 2016 , 504, 97-103 | 9.6 | 113 |
| 193 | High-Performance Olivine NaFePO ₄ Microsphere Cathode Synthesized by Aqueous Electrochemical Displacement Method for Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 17977-845 | 9.5 | 108 |
| 192 | Electrochemical behavior of biphenyl as polymerizable additive for overcharge protection of lithium ion batteries. <i>Electrochimica Acta</i> , 2004 , 49, 4189-4196 | 6.7 | 108 |
| 191 | Electrospun TiO ₂ /C Nanofibers As a High-Capacity and Cycle-Stable Anode for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16684-9 | 9.5 | 107 |
| 190 | Hierarchical porous Li ₂ FeSiO ₄ /C composite with 2 Li storage capacity and long cycle stability for advanced Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4988 | 13 | 98 |
| 189 | Stable Li Metal Anode with Non-Solvent-Coordinated Nonflammable Electrolyte for Safe Li Metal Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 483-488 | 20.1 | 95 |
| 188 | An aniline-nitroaniline copolymer as a high capacity cathode for Na-ion batteries. <i>Electrochemistry Communications</i> , 2012 , 21, 36-38 | 5.1 | 94 |
| 187 | A Fully Sodiated NaVOPO ₄ with Layered Structure for High-Voltage and Long-Lifespan Sodium-Ion Batteries. <i>Chem</i> , 2018 , 4, 1167-1180 | 16.2 | 92 |
| 186 | Electrochemical properties and morphological evolution of pitaya-like Sb@C microspheres as high-performance anode for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5708-5713 | 13 | 92 |
| 185 | A Highly Thermostable Ceramic-Grafted Microporous Polyethylene Separator for Safer Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24119-26 | 9.5 | 91 |
| 184 | A solar rechargeable flow battery based on photoregeneration of two soluble redox couples. <i>ChemSusChem</i> , 2013 , 6, 802-6 | 8.3 | 91 |
| 183 | Green synthesis and stable li-storage performance of FeSi(2)/Si@C nanocomposite for lithium-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3753-8 | 9.5 | 87 |
| 182 | SiC@C nanocomposites as high-capacity and cycling-stable anode for sodium-ion batteries. <i>Electrochimica Acta</i> , 2013 , 87, 41-45 | 6.7 | 84 |
| 181 | A Li ⁺ -conductive microporous carbon@sulfur composite for Li-S batteries. <i>Electrochimica Acta</i> , 2013 , 87, 497-502 | 6.7 | 84 |
| 180 | A Safer Sodium-Ion Battery Based on Nonflammable Organic Phosphate Electrolyte. <i>Advanced Science</i> , 2016 , 3, 1600066 | 13.6 | 84 |
| 179 | A Perylene Diimide Crystal with High Capacity and Stable Cyclability for Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21095-9 | 9.5 | 82 |
| 178 | Low Defect FeFe(CN) ₆ Framework as Stable Host Material for High Performance Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23706-12 | 9.5 | 82 |
| 177 | Improved sodium-storage performance of stannous sulfide@reduced graphene oxide composite as high capacity anodes for sodium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 293, 784-789 | 8.9 | 79 |

- 176 Effective Chemical Prelithiation Strategy for Building a Silicon/Sulfur Li-Ion Battery. *ACS Energy Letters*, **2019**, 4, 1717-1724 20.1 78
- 175 Suppression of Dendritic Lithium Growth by in Situ Formation of a Chemically Stable and Mechanically Strong Solid Electrolyte Interphase. *ACS Applied Materials & Interfaces*, **2018**, 10, 593-605 78
- 174 Surface-oriented and nanoflake-stacked LiNi_{0.5}Mn_{1.5}O₄ spinel for high-rate and long-cycle-life lithium ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 17768 77
- 173 Surface-Modified Graphite as an Improved Intercalating Anode for Lithium-Ion Batteries. *Electrochemical and Solid-State Letters*, **2003**, 6, A30 77
- 172 Self-doped polypyrrole with ionizable sodium sulfonate as a renewable cathode material for sodium ion batteries. *Chemical Communications*, **2013**, 49, 11370-2 5.8 76
- 171 3D graphene decorated Na₄Fe₃(PO₄)₂(P₂O₇) microspheres as low-cost and high-performance cathode materials for sodium-ion batteries. *Nano Energy*, **2019**, 56, 160-168 17.1 75
- 170 Exploring Sodium-Ion Storage Mechanism in Hard Carbons with Different Microstructure Prepared by Ball-Milling Method. *Small*, **2018**, 14, e1802694 11 74
- 169 Dual Core-Shell Structured Si@SiO₂@C Nanocomposite Synthesized via a One-Step Pyrolysis Method as a Highly Stable Anode Material for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 31611-31616 9.5 72
- 168 Li(+)-conductive polymer-embedded nano-Si particles as anode material for advanced Li-ion batteries. *ACS Applied Materials & Interfaces*, **2014**, 6, 3508-12 9.5 72
- 167 Novel Ceramic-Grafted Separator with Highly Thermal Stability for Safe Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 25970-25975 9.5 72
- 166 A Nonflammable Na⁺-Based Dual-Carbon Battery with Low-Cost, High Voltage, and Long Cycle Life. *Advanced Energy Materials*, **2018**, 8, 1802176 21.8 72
- 165 Graphene-Wrapped Na₂C₁₂H₆O₄ Nanoflowers as High Performance Anodes for Sodium-Ion Batteries. *Small*, **2016**, 12, 583-7 11 71
- 164 Developments and Perspectives on Emerging High-Energy-Density Sodium-Metal Batteries. *Chem*, **2019**, 5, 2547-2570 16.2 67
- 163 Facile hydrothermal synthesis of vanadium oxides nanobelts by ethanol reduction of peroxovanadium complexes. *Ceramics International*, **2013**, 39, 129-141 5.1 66
- 162 Anodically electrodeposited iridium oxide films microelectrodes for neural microstimulation and recording. *Sensors and Actuators B: Chemical*, **2009**, 137, 334-339 8.5 66
- 161 Electroactive organic anion-doped polypyrrole as a low cost and renewable cathode for sodium-ion batteries. *Journal of Polymer Science, Part B: Polymer Physics*, **2013**, 51, 114-118 2.6 62
- 160 Safer lithium ion batteries based on nonflammable electrolyte. *Journal of Power Sources*, **2015**, 279, 6-128.9 62
- 159 TiO₂-Coated Interlayer-Expanded MoSe₂/Phosphorus-Doped Carbon Nanospheres for Ultrafast and Ultralong Cycling Sodium Storage. *Advanced Science*, **2019**, 6, 1801222 13.6 61

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| 158 | Antimony Nanocrystals Encapsulated in Carbon Microspheres Synthesized by a Facile Self-Catalyzing Solvothermal Method for High-Performance Sodium-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1337-43 | 9.5 | 59 |
| 157 | Facile and scalable synthesis of low-cost FeS@C as long-cycle anodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19709-19718 | 13 | 59 |
| 156 | An electrochemically compatible and flame-retardant electrolyte additive for safe lithium ion batteries. <i>Journal of Power Sources</i> , 2013 , 227, 106-110 | 8.9 | 59 |
| 155 | Graphene-supported TiO ₂ nanospheres as a high-capacity and long-cycle life anode for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11351-11356 | 13 | 58 |
| 154 | Engineering Al ₂ O ₃ atomic layer deposition: Enhanced hard carbon-electrolyte interface towards practical sodium ion batteries. <i>Nano Energy</i> , 2019 , 64, 103903 | 17.1 | 58 |
| 153 | In situ N-doped carbon modified (Co _{0.5} Ni _{0.5}) ₉ S ₈ solid-solution hollow spheres as high-capacity anodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8268-8276 | 13 | 57 |
| 152 | Na ₄ Fe ₃ (PO ₄) ₂ P ₂ O ₇ /C nanospheres as low-cost, high-performance cathode material for sodium-ion batteries. <i>Energy Storage Materials</i> , 2019 , 22, 330-336 | 19.4 | 56 |
| 151 | Fe(CN) ₆ ⁴⁻ -doped polypyrrole: a high-capacity and high-rate cathode material for sodium-ion batteries. <i>RSC Advances</i> , 2012 , 2, 5495 | 3.7 | 56 |
| 150 | Temperature-sensitive cathode materials for safer lithium-ion batteries. <i>Energy and Environmental Science</i> , 2011 , 4, 2845 | 35.4 | 55 |
| 149 | Facile synthesis and stable lithium storage performances of Sn- sandwiched nanoparticles as a high capacity anode material for rechargeable Li batteries. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7266 | | 55 |
| 148 | Understanding and Calibration of Charge Storage Mechanism in Cyclic Voltammetry Curves. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 21310-21318 | 16.4 | 55 |
| 147 | Enabling an intrinsically safe and high-energy-density 4.5 V-class Li-ion battery with nonflammable electrolyte. <i>Information Materials</i> , 2020 , 2, 984-992 | 23.1 | 54 |
| 146 | Ultralow-Strain Zn-Substituted Layered Oxide Cathode with Suppressed P2D2 Transition for Stable Sodium Ion Storage. <i>Advanced Functional Materials</i> , 2020 , 30, 1910327 | 15.6 | 54 |
| 145 | Investigation of the Effect of Fluoroethylene Carbonate Additive on Electrochemical Performance of Sb-Based Anode for Sodium-Ion Batteries. <i>Electrochimica Acta</i> , 2016 , 190, 402-408 | 6.7 | 54 |
| 144 | Yolk-Shell TiO ₂ @C Nanocomposite as High-Performance Anode Material for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 345-353 | 9.5 | 52 |
| 143 | Molecular structures of polymer/sulfur composites for lithium-sulfur batteries with long cycle life. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9517 | 13 | 52 |
| 142 | Preparation and electrochemical performance of Sn ₂ O ₃ composite as anode material for Li-ion batteries. <i>Journal of Power Sources</i> , 2009 , 189, 730-732 | 8.9 | 52 |
| 141 | Suppressing Voltage Fading of Li-Rich Oxide Cathode via Building a Well-Protected and Partially-Protonated Surface by Polyacrylic Acid Binder for Cycle-Stable Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 1904264 | 21.8 | 50 |

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| 140 | Symmetric Sodium-Ion Capacitor Based on NaMnO Nanorods for Low-Cost and High-Performance Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 11689-11698 | 9.5 | 49 |
| 139 | Improvement of the electrochemical properties of V ₃ O ₇ ·H ₂ O nanobelts for Li battery application through synthesis of V ₃ O ₇ @C core-shell nanostructured composites. <i>Current Applied Physics</i> , 2011 , 11, 1159-1163 | 2.6 | 49 |
| 138 | A novel bifunctional thermo-sensitive poly(lactic acid)@poly(butylene succinate) core-shell fibrous separator prepared by a coaxial electrospinning route for safe lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23238-23242 | 13 | 48 |
| 137 | Activated iridium oxide films fabricated by asymmetric pulses for electrical neural microstimulation and recording. <i>Electrochemistry Communications</i> , 2008 , 10, 778-782 | 5.1 | 48 |
| 136 | Structural and electrochemical characterization of nanocrystalline Li[Li _{0.12} Ni _{0.32} Mn(0.56)]O ₂ synthesized by a polymer-pyrolysis route. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 1148-54 | 3.4 | 48 |
| 135 | Sulfur-Based Electrodes that Function via Multielectron Reactions for Room-Temperature Sodium-Ion Storage. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18324-18337 | 16.4 | 46 |
| 134 | Building thermally stable Li-ion batteries using a temperature-responsive cathode. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11239-11246 | 13 | 44 |
| 133 | High Rate, Long Lifespan LiV O Nanorods as a Cathode Material for Lithium-Ion Batteries. <i>Small</i> , 2017 , 13, 1603148 | 11 | 42 |
| 132 | A green route to synthesize low-cost and high-performance hard carbon as promising sodium-ion battery anodes from sorghum stalk waste. <i>Green Energy and Environment</i> , 2017 , 2, 310-315 | 5.7 | 42 |
| 131 | Na ₃ V ₂ (PO ₄) ₃ /C nanocomposite synthesized via pre-reduction process as high-performance cathode material for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2015 , 646, 170-174 | 5.7 | 39 |
| 130 | Recent Developments in Cathode Materials for Na Ion Batteries. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2017 , 33, 211-241 | 3.8 | 38 |
| 129 | Bis(2,2,2-trifluoroethyl) methylphosphonate: An Novel Flame-retardant Additive for Safe Lithium-ion Battery. <i>Electrochimica Acta</i> , 2014 , 129, 300-304 | 6.7 | 38 |
| 128 | An All-solid-state and All-organic Sodium-ion Battery based on Redox-active Polymers and Plastic Crystal Electrolyte. <i>Electrochimica Acta</i> , 2015 , 178, 55-59 | 6.7 | 37 |
| 127 | Novel 2D Layered Molybdenum Ditelluride Encapsulated in Few-Layer Graphene as High-Performance Anode for Lithium-Ion Batteries. <i>Small</i> , 2018 , 14, e1703680 | 11 | 37 |
| 126 | Electrochemical performances of Al-based composites as anode materials for Li-ion batteries. <i>Electrochimica Acta</i> , 2009 , 54, 4118-4122 | 6.7 | 37 |
| 125 | Electrolytes for Dual-Carbon Batteries. <i>ChemElectroChem</i> , 2019 , 6, 2615-2629 | 4.3 | 36 |
| 124 | Graphene-Modified TiO ₂ Microspheres Synthesized by a Facile Spray-Drying Route for Enhanced Sodium-Ion Storage. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 545-552 | 3.1 | 36 |
| 123 | Novel Alkaline Zn/NaMnO Dual-Ion Battery with a High Capacity and Long Cycle Lifespan. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34108-34115 | 9.5 | 36 |

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|-----|---|------|----|
| 122 | Understanding Voltage Decay in Lithium-Rich Manganese-Based Layered Cathode Materials by Limiting Cutoff Voltage. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 18867-77 | 9.5 | 35 |
| 121 | High Capacity and Cycle-Stable Hard Carbon Anode for Nonflammable Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38141-38150 | 9.5 | 35 |
| 120 | n-Type redox behaviors of polybithiophene and its implications for anodic Li and Na storage materials. <i>Electrochimica Acta</i> , 2012 , 78, 27-31 | 6.7 | 34 |
| 119 | In Situ Formation of CoS Nanoclusters in Sulfur-Doped Carbon Foam as a Sustainable and High-Rate Sodium-Ion Anode. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19218-19226 | 9.5 | 33 |
| 118 | Covalently Bonded Silicon/Carbon Nanocomposites as Cycle-Stable Anodes for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16411-16416 | 9.5 | 33 |
| 117 | A polyethylene microsphere-coated separator with rapid thermal shutdown function for lithium-ion batteries. <i>Journal of Energy Chemistry</i> , 2020 , 44, 33-40 | 12 | 33 |
| 116 | Improved rate capability of the conducting functionalized FTO-coated Li-[Li _{0.2} Mn _{0.54} Ni _{0.13} Co _{0.13}]O ₂ cathode material for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17113-17119 | 13 | 32 |
| 115 | Advancing knowledge of electrochemically generated lithium microstructure and performance decay of lithium ion battery by synchrotron X-ray tomography. <i>Materials Today</i> , 2019 , 27, 21-32 | 21.8 | 32 |
| 114 | Enhanced electrochemical performance of Mg-doped LiCoO ₂ synthesized by a polymer-pyrolysis method. <i>Ceramics International</i> , 2014 , 40, 11245-11249 | 5.1 | 31 |
| 113 | An All-Phosphate and Zero-Strain Sodium-Ion Battery Based on NaV(PO) ₄ Cathode, NaTi(PO) ₃ Anode, and Trimethyl Phosphate Electrolyte with Intrinsic Safety and Long Lifespan. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43733-43738 | 9.5 | 31 |
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