# Hanxi Yang

List of Publications by Year
in descending order



| 125 | 14,042 | 62 | 116 |
|---|---|---|---|
| papers | citations | h-index | g-index |
| | | 18482 | 20358 |

| 127 | 127 | 127 | 10467 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Manipulating Adsorptionâ€“Insertion Mechanisms in Nanostructured Carbon Materials for Highâ€Efficiency Sodium Ion Storage. Advanced Energy Materials, 2017, 7, 1700403. | 19.5 | 662 |
| 2 | Sbâ€“C nanofibers with long cycle life as an anode material for high-performance sodium-ion batteries. Energy and Environmental Science, 2014, 7, 323-328. | 30.8 | 594 |
| 3 | High Capacity and Rate Capability of Amorphous Phosphorus for Sodium Ion Batteries. Angewandte Chemie - International Edition, 2013, 52, 4633-4636. | 13.8 | 588 |
| 4 | Non-flammable electrolytes with high salt-to-solvent ratios for Li-ion and Li-metal batteries. Nature Energy, 2018, 3, 674-681. | 39.5 | 557 |
| 5 | Prussian Blue Cathode Materials for Sodiumâ€Ion Batteries and Other Ion Batteries. Advanced Energy Materials, 2018, 8, 1702619. | 19.5 | 460 |
| 6 | Hierarchical Carbon Framework Wrapped Na<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> as a Superior Highâ€Rate and Extended Lifespan Cathode for Sodiumâ€Ion Batteries. Advanced Materials, 2015, 27, 5895-5900. | 21.0 | 448 |
| 7 | Lowâ€Defect and Lowâ€Porosity Hard Carbon with High Coulombic Efficiency and High Capacity for Practical Sodium Ion Battery Anode. Advanced Energy Materials, 2018, 8, 1703238. | 19.5 | 414 |
| 8 | Routes to High Energy Cathodes of Sodiumâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1501727. | 19.5 | 408 |
| 9 | Synergistic Na-Storage Reactions in Sn<sub>4</sub>P<sub>3</sub> as a High-Capacity, Cycle-stable Anode of Na-Ion Batteries. Nano Letters, 2014, 14, 1865-1869. | 9.1 | 379 |
| 10 | Highly Crystallized Na<sub>2</sub>CoFe(CN)<sub>6</sub> with Suppressed Lattice Defects as Superior Cathode Material for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 5393-5399. | 8.0 | 334 |
| 11 | Single-crystal FeFe(CN)6 nanoparticles: a high capacity and high rate cathode for Na-ion batteries. Journal of Materials Chemistry A, 2013, 1, 10130. | 10.3 | 295 |
| 12 | A low-cost and environmentally benign aqueous rechargeable sodium-ion battery based on NaTi2(PO4)3â€“Na2NiFe(CN)6 intercalation chemistry. Electrochemistry Communications, 2013, 31, 145-148. | 4.7 | 289 |
| 13 | Phosphate Framework Electrode Materials for Sodium Ion Batteries. Advanced Science, 2017, 4, 1600392. | 11.2 | 275 |
| 14 | Nanosized Na<sub>4</sub>Fe(CN)<sub>6</sub>/C Composite as a Lowâ€Cost and Highâ€Rate Cathode Material for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2012, 2, 410-414. | 19.5 | 257 |
| 15 | Recent Progress in Rechargeable Sodiumâ€Ion Batteries: toward Highâ€Power Applications. Small, 2019, 15, e1805427. | 10.0 | 254 |
| 16 | 3D Graphene Decorated NaTi<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> Microspheres as a Superior Highâ€Rate and Ultracycleâ€Stable Anode Material for Sodium Ion Batteries. Advanced Energy Materials, 2016, 6, 1502197. | 19.5 | 251 |
| 17 | Synthesis and electrochemical behaviors of layered Na0.67[Mn0.65Co0.2Ni0.15]O2 microflakes as a stable cathode material for sodium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 3895. | 10.3 | 244 |
| 18 | In Situ Generation of Fewâ€Layer Graphene Coatings on SnO<sub>2</sub>â€SiC Coreâ€Shell Nanoparticles for Highâ€Performance Lithiumâ€Ion Storage. Advanced Energy Materials, 2012, 2, 95-102. | 19.5 | 233 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Recent Advances in Sodium-Ion Battery Materials. Electrochemical Energy Reviews, 2018, 1, 294-323. | 25.5 | 224 |
| 20 | Enhanced high-rate capability and cycling stability of Na-stabilized layered Li1.2[Co0.13Ni0.13Mn0.54]O2 cathode material. Journal of Materials Chemistry A, 2013, 1, 11397. | 10.3 | 219 |
| 21 | Graphene-Scaffolded Na<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> Microsphere Cathode with High Rate Capability and Cycling Stability for Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 7177-7184. | 8.0 | 156 |
| 22 | Effective Chemical Prelithiation Strategy for Building a Silicon/Sulfur Li-Ion Battery. ACS Energy Letters, 2019, 4, 1717-1724. | 17.4 | 151 |
| 23 | Stable Li Metal Anode with â€œIonâ€"Solvent-Coordinatedâ€•Nonflammable Electrolyte for Safe Li Metal Batteries. ACS Energy Letters, 2019, 4, 483-488. | 17.4 | 148 |
| 24 | Recent Progress in Ironâ€Based Electrode Materials for Gridâ€Scale Sodiumâ€Ion Batteries. Small, 2018, 14, 1703116. | 10.0 | 146 |
| 25 | Chemically Prelithiated Hardâ€Carbon Anode for High Power and High Capacity Liâ€Ion Batteries. Small, 2020, 16, e1907602. | 10.0 | 144 |
| 26 | A tin(<scp>ii</scp>) sulfideâ€"carbon anode material based on combined conversion and alloying reactions for sodium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 16424-16428. | 10.3 | 142 |
| 27 | High-Performance Olivine NaFePO<sub>4</sub> Microsphere Cathode Synthesized by Aqueous Electrochemical Displacement Method for Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 17977-17984. | 8.0 | 141 |
| 28 | 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. | 16.0 | 134 |
| 29 | A Snâ€"SnSâ€"C nanocomposite as anode host materials for Na-ion batteries. Journal of Materials Chemistry A, 2013, 1, 7181. | 10.3 | 130 |
| 30 | Sulfur/carbon nanocomposite-filled polyacrylonitrile nanofibers as a long life and high capacity cathode for lithiumâ€"sulfur batteries. Journal of Materials Chemistry A, 2015, 3, 7406-7412. | 10.3 | 130 |
| 31 | Exploring Sodiumâ€Ion Storage Mechanism in Hard Carbons with Different Microstructure Prepared by Ballâ€Milling Method. Small, 2018, 14, e1802694. | 10.0 | 127 |
| 32 | A Perylene Diimide Crystal with High Capacity and Stable Cyclability for Na-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 21095-21099. | 8.0 | 125 |
| 33 | Electrospun TiO<sub>2</sub>/C Nanofibers As a High-Capacity and Cycle-Stable Anode for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 16684-16689. | 8.0 | 121 |
| 34 | An Overall Understanding of Sodium Storage Behaviors in Hard Carbons by an â€œAdsorptionâ€Intercalation/Fillingâ€•Hybrid Mechanism. Advanced Energy Materials, 2022, 12, . | 19.5 | 121 |
| 35 | A Highly Thermostable Ceramic-Grafted Microporous Polyethylene Separator for Safer Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 24119-24126. | 8.0 | 119 |
| 36 | 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, 593-601. | 8.0 | 116 |

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|---|---|---|---|
| 37 | Low Defect FeFe(CN)<sub>6</sub> Framework as Stable Host Material for High Performance Li-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 23706-23712. | 8.0 | 115 |
| 38 | Achieving Desirable Initial Coulombic Efficiencies and Full Capacity Utilization of Liâ€Ion Batteries by Chemical Prelithiation of Graphite Anode. Advanced Functional Materials, 2021, 31, 2101181. | 14.9 | 115 |
| 39 | Ultralowâ€Strain Znâ€Substituted Layered Oxide Cathode with Suppressed P2â€"O2 Transition for Stable Sodium Ion Storage. Advanced Functional Materials, 2020, 30, 1910327. | 14.9 | 110 |
| 40 | Electrochemical properties and morphological evolution of pitaya-like Sb@C microspheres as high-performance anode for sodium ion batteries. Journal of Materials Chemistry A, 2015, 3, 5708-5713. | 10.3 | 104 |
| 41 | Hierarchical porous Li2FeSiO4/C composite with 2 Li storage capacity and long cycle stability for advanced Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 4988. | 10.3 | 103 |
| 42 | Suppressing Voltage Fading of Liâ€Rich Oxide Cathode via Building a Wellâ€Protected and Partiallyâ€Protonated Surface by Polyacrylic Acid Binder for Cycleâ€Stable Liâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 1904264. | 19.5 | 101 |
| 43 | Novel Ceramic-Grafted Separator with Highly Thermal Stability for Safe Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 25970-25975. | 8.0 | 100 |
| 44 | In Situ Grown Fe<sub>2</sub>O<sub>3</sub> Single Crystallites on Reduced Graphene Oxide Nanosheets as High Performance Conversion Anode for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 19900-19907. | 8.0 | 97 |
| 45 | Chemically Presodiated Hard Carbon Anodes with Enhanced Initial Coulombic Efficiencies for High-Energy Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 17620-17627. | 8.0 | 95 |
| 46 | Poly(anthraquinonyl imide) as a high capacity organic cathode material for Na-ion batteries. Journal of Materials Chemistry A, 2016, 4, 11491-11497. | 10.3 | 91 |
| 47 | A Nonflammable Na<sup>+</sup>â€Based Dualâ€Carbon Battery with Lowâ€Cost, High Voltage, and Long Cycle Life. Advanced Energy Materials, 2018, 8, 1802176. | 19.5 | 90 |
| 48 | Dual Coreâ€"Shell Structured Si@SiO<sub><i>x</i></sub>@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. | 8.0 | 88 |
| 49 | Surface-oriented and nanoflake-stacked LiNi0.5Mn1.5O4 spinel for high-rate and long-cycle-life lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 17768. | 6.7 | 86 |
| 50 | Understanding of the sodium storage mechanism in hard carbon anodes. , 2022, 4, 1133-1150. | | 83 |
| 51 | Grapheneâ€Wrapped Na<sub>2</sub>C<sub>12</sub>H<sub>6</sub>O<sub>4</sub> Nanoflowers as High Performance Anodes for Sodiumâ€Ion Batteries. Small, 2016, 12, 583-587. | 10.0 | 82 |
| 52 | Enabling an intrinsically safe and highâ€energyâ€density 4.5 Vâ€class Liâ€ion battery with nonflammable electrolyte. InformaÄnÁ-MateriÃ¡ly, 2020, 2, 984-992. | 17.3 | 81 |
| 53 | Electroactive organic anionâ€doped polypyrrole as a low cost and renewable cathode for sodiumâ€ion batteries. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 114-118. | 2.1 | 76 |
| 54 | Mesoporous Silica Reinforced Hybrid Polymer Artificial Layer for High-Energy and Long-Cycling Lithium Metal Batteries. ACS Energy Letters, 2020, 5, 1644-1652. | 17.4 | 74 |

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|---|---|---|---|
| 55 | Graphene-supported TiO<sub>2</sub> nanospheres as a high-capacity and long-cycle life anode for sodium ion batteries. Journal of Materials Chemistry A, 2016, 4, 11351-11356. | 10.3 | 72 |
| 56 | A novel bifunctional thermo-sensitive poly(lactic acid)@poly(butylene succinate) coreâ€“shell fibrous separator prepared by a coaxial electrospinning route for safe lithium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 23238-23242. | 10.3 | 70 |
| 57 | Antimony Nanocrystals Encapsulated in Carbon Microspheres Synthesized by a Facile Self-Catalyzing Solvothermal Method for High-Performance Sodium-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2016, 8, 1337-1343. | 8.0 | 69 |
| 58 | Yolkâ€“Shell TiO<sub>2</sub>@C Nanocomposite as High-Performance Anode Material for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 345-353. | 8.0 | 69 |
| 59 | Sulfurâ€Based Electrodes that Function via Multielectron Reactions for Roomâ€Temperature Sodiumâ€Ion Storage. Angewandte Chemie - International Edition, 2019, 58, 18324-18337. | 13.8 | 69 |
| 60 | Building thermally stable Li-ion batteries using a temperature-responsive cathode. Journal of Materials Chemistry A, 2016, 4, 11239-11246. | 10.3 | 68 |
| 61 | Ethylene Carbonateâ€Free Propylene Carbonateâ€Based Electrolytes with Excellent Electrochemical Compatibility for Liâ€Ion Batteries through Engineering Electrolyte Solvation Structure. Advanced Energy Materials, 2021, 11, 2003905. | 19.5 | 68 |
| 62 | Tunable Electrocatalytic Behavior of Sodiated MoS<sub>2</sub> Active Sites toward Efficient Sulfur Redox Reactions in Roomâ€Temperature Naâ€“S Batteries. Advanced Materials, 2021, 33, e2100229. | 21.0 | 66 |
| 63 | Fe(CN)6âˆ’4-doped polypyrrole: a high-capacity and high-rate cathode material for sodium-ion batteries. RSC Advances, 2012, 2, 5495. | 3.6 | 64 |
| 64 | Symmetric Sodium-Ion Capacitor Based on Na<sub>0.44</sub>MnO<sub>2</sub> Nanorods for Low-Cost and High-Performance Energy Storage. ACS Applied Materials & Interfaces, 2018, 10, 11689-11698. | 8.0 | 62 |
| 65 | Temperature-responsive microspheres-coated separator for thermal shutdown protection of lithium ion batteries. RSC Advances, 2015, 5, 172-176. | 3.6 | 61 |
| 66 | Facile synthesis and stable lithium storage performances of Sn- sandwiched nanoparticles as a high capacity anode material for rechargeable Li batteries. Journal of Materials Chemistry, 2010, 20, 7266. | 6.7 | 60 |
| 67 | Highly Selective and Pollutionâ€Free Electrochemical Extraction of Lithium by a Polyaniline/Li<sub><i>x</i></sub>Mn<sub>2</sub>O<sub>4</sub> Cell. ChemSusChem, 2019, 12, 1361-1367. | 6.8 | 60 |
| 68 | Electrolytes for Dualâ€Carbon Batteries. ChemElectroChem, 2019, 6, 2615-2629. | 3.4 | 59 |
| 69 | High Rate, Long Lifespan LiV<sub>3</sub>O<sub>8</sub> Nanorods as a Cathode Material for Lithiumâ€Ion Batteries. Small, 2017, 13, 1603148. | 10.0 | 57 |
| 70 | Covalently Bonded Silicon/Carbon Nanocomposites as Cycle-Stable Anodes for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 16411-16416. | 8.0 | 55 |
| 71 | Building a cycle-stable sulphur cathode by tailoring its redox reaction into a solid-phase conversion mechanism. Journal of Materials Chemistry A, 2018, 6, 23396-23407. | 10.3 | 52 |
| 72 | High Capacity and Cycle-Stable Hard Carbon Anode for Nonflammable Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 38141-38150. | 8.0 | 51 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | In Situ Formation of Co<sub>9</sub>S<sub>8</sub> Nanoclusters in Sulfur-Doped Carbon Foam as a Sustainable and High-Rate Sodium-Ion Anode. ACS Applied Materials & Interfaces, 2019, 11, 19218-19226. | 8.0 | 51 |
| 74 | Novel Alkaline Zn/Na<sub>0.44</sub>MnO<sub>2</sub> Dual-Ion Battery with a High Capacity and Long Cycle Lifespan. ACS Applied Materials & Interfaces, 2018, 10, 34108-34115. | 8.0 | 50 |
| 75 | Microstructureâ€Dependent Charge/Discharge Behaviors of Hollow Carbon Spheres and its Implication for Sodium Storage Mechanism on Hard Carbon Anodes. Small, 2021, 17, e2102248. | 10.0 | 50 |
| 76 | Understanding Voltage Decay in Lithium-Rich Manganese-Based Layered Cathode Materials by Limiting Cutoff Voltage. ACS Applied Materials & Interfaces, 2016, 8, 18867-18877. | 8.0 | 43 |
| 77 | A Bifunctional Fluorophosphate Electrolyte for Safer Sodium-Ion Batteries. IScience, 2018, 10, 114-122. | 4.1 | 43 |
| 78 | Grapheneâ€Modified TiO<sub>2</sub> Microspheres Synthesized by a Facile Sprayâ€Drying Route for Enhanced Sodiumâ€Ion Storage. Particle and Particle Systems Characterization, 2016, 33, 545-552. | 2.3 | 42 |
| 79 | Direct Regeneration of Spent Li-Ion Battery Cathodes via Chemical Relithiation Reaction. ACS Sustainable Chemistry and Engineering, 2021, 9, 16384-16393. | 6.7 | 42 |
| 80 | The Influences of Organic Additives on Zinc Electrocrystallization from KCl Solutions. Journal of the Electrochemical Society, 1999, 146, 1789-1793. | 2.9 | 40 |
| 81 | Understanding the Electrochemical Compatibility and Reaction Mechanism on Na Metal and Hard Carbon Anodes of PC-Based Electrolytes for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 39651-39660. | 8.0 | 40 |
| 82 | High-Safety Symmetric Sodium-Ion Batteries Based on Nonflammable Phosphate Electrolyte and Double Na<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> Electrodes. ACS Applied Materials & Interfaces, 2019, 11, 27833-27838. | 8.0 | 40 |
| 83 | Highly Electrochemicallyâ€Reversible Mesoporous Na<sub>2</sub>FePO<sub>4</sub>F/C as Cathode Material for Highâ€Performance Sodiumâ€Ion Batteries. Small, 2019, 15, e1903723. | 10.0 | 38 |
| 84 | An All-Phosphate and Zero-Strain Sodium-Ion Battery Based on Na<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> Cathode, NaTi<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> Anode, and Trimethyl Phosphate Electrolyte with Intrinsic Safety and Long Lifespan. ACS Applied Materials & Interfaces, 2017, 9, 43733-43738. | 8.0 | 36 |
| 85 | Chemically presodiated Sb with a fluoride-rich interphase as a cycle-stable anode for high-energy sodium ion batteries. Journal of Materials Chemistry A, 2021, 9, 5639-5647. | 10.3 | 36 |
| 86 | Metal/<scp>covalentâ€organic</scp> frameworks for electrochemical energy storage applications. EcoMat, 2021, 3, e12133. | 11.9 | 36 |
| 87 | Facile and reversible digestion and regeneration of zirconium-based metal-organic frameworks. Communications Chemistry, 2020, 3, . | 4.5 | 35 |
| 88 | Exfoliation of MoS<sub>2</sub> Nanosheets Enabled by a Redox-Potential-Matched Chemical Lithiation Reaction. Nano Letters, 2022, 22, 2956-2963. | 9.1 | 35 |
| 89 | Improved rate capability of the conducting functionalized FTO-coated Li-[Li<sub>0.2</sub>Mn<sub>0.54</sub>Ni<sub>0.13</sub>Co<sub>0.13</sub>]O<sub>2</sub> cathode material for Li-ion batteries. Journal of Materials Chemistry A, 2015, 3, 17113-17119. | 10.3 | 34 |
| 90 | High-Capacity Hard Carbon Pyrolyzed from Subbituminous Coal as Anode for Sodium-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 729-735. | 5.1 | 34 |

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|---|---|---|---|
| 91 | Building a Cycle-Stable Feâ€“Si Alloy/Carbon Nanocomposite Anode for Li-Ion Batteries through a Covalent-Bonding Method. ACS Applied Materials & Interfaces, 2020, 12, 30503-30509. | 8.0 | 34 |
| 92 | Amorphous NaVOPO <sub>4</sub> as a High-Rate and Ultrastable Cathode Material for Sodium-Ion Batteries. CCS Chemistry, 2021, 3, 2428-2436. | 7.8 | 34 |
| 93 | Effects of Anions on the Zinc Electrodeposition onto Glassy-Carbon Electrode. Russian Journal of Electrochemistry, 2002, 38, 321-325. | 0.9 | 33 |
| 94 | Enabling stable and high-rate cycling of a Ni-rich layered oxide cathode for lithium-ion batteries by modification with an artificial Li<sup>+</sup>-conducting cathode-electrolyte interphase. Journal of Materials Chemistry A, 2021, 9, 11623-11631. | 10.3 | 33 |
| 95 | Sodiumâ€Ion Batteries: Prussian Blue Cathode Materials for Sodiumâ€Ion Batteries and Other Ion Batteries (Adv. Energy Mater. 17/2018). Advanced Energy Materials, 2018, 8, 1870079. | 19.5 | 32 |
| 96 | Surface-Bound Silicon Nanoparticles with a Planar-Oriented N-Type Polymer for Cycle-Stable Li-Ion Battery Anode. ACS Applied Materials & Interfaces, 2019, 11, 13251-13256. | 8.0 | 30 |
| 97 | Coaxial Three-Layered Carbon/Sulfur/Polymer Nanofibers with High Sulfur Content and High Utilization for Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2017, 9, 11626-11633. | 8.0 | 29 |
| 98 | Surface Modification of Fe<sub>7</sub>S<sub>8</sub>/C Anode via Ultrathin Amorphous TiO<sub>2</sub> Layer for Enhanced Sodium Storage Performance. Small, 2020, 16, e2000745. | 10.0 | 28 |
| 99 | Synthesis and electrochemical properties of high-voltage LiNi0.5Mn1.5O4 electrode material for Li-ion batteries by the polymer-pyrolysis method. Journal of Solid State Electrochemistry, 2006, 10, 283-287. | 2.5 | 27 |
| 100 | Electrochemical properties of nano-crystalline LiNi0.5Mn1.5O4 synthesized by polymer-pyrolysis method. Journal of Solid State Electrochemistry, 2008, 12, 687-691. | 2.5 | 27 |
| 101 | Hard Carbon Fibers Pyrolyzed from Wool as High-Performance Anode for Sodium-Ion Batteries. Jom, 2016, 68, 2579-2584. | 1.9 | 26 |
| 102 | Building a Thermal Shutdown Cathode for Liâ€Ion Batteries Using Temperatureâ€Responsive Poly(3â€Dodecylthiophene). Energy Technology, 2020, 8, 2000365. | 3.8 | 26 |
| 103 | Surface-engineering enhanced sodium storage performance of Na3V2(PO4)3 cathode via in-situ self-decorated conducting polymer route. Science China Chemistry, 2017, 60, 1546-1553. | 8.2 | 24 |
| 104 | A High-Voltage and Cycle Stable Aqueous Rechargeable Na-Ion Battery Based on Na<sub>2</sub>Zn<sub>3</sub>[Fe(CN)<sub>6</sub>]<sub>2</sub>â€“NaTi<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> Intercalation Chemistry. ACS Applied Energy Materials, 2019, 2, 5809-5815. | 5.1 | 24 |
| 105 | Enabling electrochemical compatibility of non-flammable phosphate electrolytes for lithium-ion batteries by tuning their molar ratios of salt to solvent. Chemical Communications, 2020, 56, 6559-6562. | 4.1 | 23 |
| 106 | Pb-sandwiched nanoparticles as anode material for lithium-ion batteries. Journal of Solid State Electrochemistry, 2012, 16, 291-295. | 2.5 | 22 |
| 107 | Enabling a high capacity and long cycle life for nano-Si anodes by building a stable solid interface with a Li<sup>+</sup>-conducting polymer. Journal of Materials Chemistry A, 2015, 3, 9938-9944. | 10.3 | 22 |
| 108 | The Underlying Mechanism for Reduction Stability of Organic Electrolytes in Lithium Secondary Batteries. Chemical Science, 2021, 12, 9037-9041. | 7.4 | 22 |

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|---|---|---|---|
| 109 | Synthesis of Monoclinic Li[Li<sub>0.2</sub>Mn<sub>0.54</sub>Ni<sub>0.13</sub>Co<sub>0.13</sub>]O<sub>2</sub> Nanoparticles by a Layeredâ€Template Route for Highâ€Performance Liâ€Ion Batteries. European Journal of Inorganic Chemistry, 2013, 2013, 2887-2892. | 2.0 | 19 |
| 110 | Flaky and Dense Lithium Deposition Enabled by a Nanoporous Copper Surface Layer on Lithium Metal Anode. , 2020, 2, 358-366. | | 19 |
| 111 | Electrochemical Insight into the Sodium-Ion Storage Mechanism on a Hard Carbon Anode. ACS Applied Materials & Interfaces, 2021, 13, 18914-18922. | 8.0 | 18 |
| 112 | Enhanced electrochemical performance of submicron LiCoO2 synthesized by polymer pyrolysis method. Journal of Solid State Electrochemistry, 2007, 12, 149-153. | 2.5 | 17 |
| 113 | A Solidâ€Phase Conversion Sulfur Cathode with Full Capacity Utilization and Superior Cycle Stability for Lithiumâ€Sulfur Batteries. Small, 2022, 18, e2106144. | 10.0 | 16 |
| 114 | A Membrane-Free and Energy-Efficient Three-Step Chlor-Alkali Electrolysis with Higher-Purity NaOH Production. ACS Applied Materials & Interfaces, 2019, 11, 45126-45132. | 8.0 | 14 |
| 115 | <i>In</i> <i>Situ</i>-Formed Artificial Solid Electrolyte Interphase for Boosting the Cycle Stability of Si-Based Anodes for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 22505-22513. | 8.0 | 14 |
| 116 | A redoxâ€active polythiopheneâ€modified separator for safety control of lithiumâ€ion batteries. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 1487-1493. | 2.1 | 13 |
| 117 | A controllable thermal-sensitivity separator with an organicâ€"inorganic hybrid interlayer for high-safety lithium-ion batteries. Materials Chemistry Frontiers, 2021, 5, 2313-2319. | 5.9 | 10 |
| 118 | SnO2-Reduced Graphene Oxide Nanocomposites via Microwave Route as Anode for Sodium-Ion Battery. Jom, 2016, 68, 2607-2612. | 1.9 | 9 |
| 119 | Schwefelâ€basierte Elektroden mit Mehrelektronenreaktionen fÃ¼r Raumtemperaturâ€Natriumionenspeicherung. Angewandte Chemie, 2019, 131, 18490-18504. | 2.0 | 9 |
| 120 | Improved Initial Charging Capacity of Na-poor Na0.44MnO2 via Chemical Presodiation Strategy for Low-cost Sodium-ion Batteries. Chemical Research in Chinese Universities, 2021, 37, 274-279. | 2.6 | 9 |
| 121 | Low temperature hydrothermal synthesis and electrochemical performances of LiFePO4 microspheres as a cathode material for lithium-ion batteries. Science Bulletin, 2012, 57, 4164-4169. | 1.7 | 6 |
| 122 | Reversible Temperature-Responsive Cathode for Thermal Protection of Lithium-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 5236-5244. | 5.1 | 6 |
| 123 | In Situ Generation of Few-Layer Graphene Coatings on SnO2-SiC Core-Shell Nanoparticles for High-Performance Lithium-Ion Storage (Adv. Energy Mater. 1/2012). Advanced Energy Materials, 2012, 2, 94-94. | 19.5 | 5 |
| 124 | Efficient and Facile Electrochemical Process for the Production of High-Quality Lithium Hexafluorophosphate Electrolyte. ACS Applied Materials & Interfaces, 2020, 12, 32771-32777. | 8.0 | 5 |
| 125 | An efficient and nonflammable organic phosphate electrolyte for dye-sensitized solar cells. Journal of Applied Electrochemistry, 2009, 39, 1939-1942. | 2.9 | 2 |