# Xiao-Dong Guo

List of Publications by Year
in descending order

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| 445 | 63,883 | 587 125 | 981 237 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 459 | 459 | 459 | 32529 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Lithiumâ€“Sulfur Batteries: Electrochemistry, Materials, and Prospects. Angewandte Chemie - International Edition, 2013, 52, 13186-13200. | 7.2 | 2,329 |
| 2 | Nanostructured Materials for Electrochemical Energy Conversion and Storage Devices. Advanced Materials, 2008, 20, 2878-2887. | 11.1 | 2,054 |
| 3 | Smaller Sulfur Molecules Promise Better Lithiumâ€“Sulfur Batteries. Journal of the American Chemical Society, 2012, 134, 18510-18513. | 6.6 | 1,499 |
| 4 | Accommodating lithium into 3D current collectors with a submicron skeleton towards long-life lithium metal anodes. Nature Communications, 2015, 6, 8058. | 5.8 | 1,305 |
| 5 | An Artificial Solid Electrolyte Interphase Layer for Stable Lithium Metal Anodes. Advanced Materials, 2016, 28, 1853-1858. | 11.1 | 1,291 |
| 6 | Carbon Coated Fe<sub>3</sub>O<sub>4</sub> Nanospindles as a Superior Anode Material for Lithiumâ€Ion Batteries. Advanced Functional Materials, 2008, 18, 3941-3946. | 7.8 | 1,177 |
| 7 | Binding SnO<sub>2</sub> Nanocrystals in Nitrogenâ€Doped Graphene Sheets as Anode Materials for Lithiumâ€Ion Batteries. Advanced Materials, 2013, 25, 2152-2157. | 11.1 | 1,089 |
| 8 | Tinâ€Nanoparticles Encapsulated in Elastic Hollow Carbon Spheres for Highâ€Performance Anode Material in Lithiumâ€Ion Batteries. Advanced Materials, 2008, 20, 1160-1165. | 11.1 | 1,002 |
| 9 | High-quality Prussian blue crystals as superior cathode materials for room-temperature sodium-ion batteries. Energy and Environmental Science, 2014, 7, 1643-1647. | 15.6 | 852 |
| 10 | High Lithium Electroactivity of Nanometer-Sized Rutile TiO2. Advanced Materials, 2006, 18, 1421-1426. | 11.1 | 830 |
| 11 | Pt Hollow Nanospheres: Facile Synthesis and Enhanced Electrocatalysts. Angewandte Chemie - International Edition, 2004, 43, 1540-1543. | 7.2 | 662 |
| 12 | LiFePO<sub>4</sub> Nanoparticles Embedded in a Nanoporous Carbon Matrix: Superior Cathode Material for Electrochemical Energyâ€Storage Devices. Advanced Materials, 2009, 21, 2710-2714. | 11.1 | 647 |
| 13 | Synthesis and Lithium Storage Properties of Co<sub>3</sub>O<sub>4</sub> Nanosheetâ€Assembled Multishelled Hollow Spheres. Advanced Functional Materials, 2010, 20, 1680-1686. | 7.8 | 642 |
| 14 | Rutile-TiO<sub>2</sub> Nanocoating for a High-Rate Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub> Anode of a Lithium-Ion Battery. Journal of the American Chemical Society, 2012, 134, 7874-7879. | 6.6 | 602 |
| 15 | Superior Electrode Performance of Nanostructured Mesoporous TiO<sub>2</sub> (Anatase) through Efficient Hierarchical Mixed Conducting Networks. Advanced Materials, 2007, 19, 2087-2091. | 11.1 | 592 |
| 16 | A Flexible Solid Electrolyte Interphase Layer for Longâ€Life Lithium Metal Anodes. Angewandte Chemie - International Edition, 2018, 57, 1505-1509. | 7.2 | 590 |
| 17 | Mass Production and High Photocatalytic Activity of ZnS Nanoporous Nanoparticles. Angewandte Chemie - International Edition, 2005, 44, 1269-1273. | 7.2 | 558 |
| 18 | Nanocarbon Networks for Advanced Rechargeable Lithium Batteries. Accounts of Chemical Research, 2012, 45, 1759-1769. | 7.6 | 533 |

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|---|---|---|---|
| 19 | Safetyâ€Reinforced Poly(Propylene Carbonate)â€Based Allâ€Solidâ€State Polymer Electrolyte for Ambientâ€Temperature Solid Polymer Lithium Batteries. Advanced Energy Materials, 2015, 5, 1501082. | 10.2 | 532 |
| 20 | A Highâ€Energy Roomâ€Temperature Sodiumâ€Sulfur Battery. Advanced Materials, 2014, 26, 1261-1265. | 11.1 | 525 |
| 21 | Layered Oxide Cathodes for Sodiumâ€Ion Batteries: Phase Transition, Air Stability, and Performance. Advanced Energy Materials, 2018, 8, 1701912. | 10.2 | 519 |
| 22 | Watermelonâ€Inspired Si/C Microspheres with Hierarchical Buffer Structures for Densely Compacted Lithiumâ€Ion Battery Anodes. Advanced Energy Materials, 2017, 7, 1601481. | 10.2 | 508 |
| 23 | Graphitized Carbon Fibers as Multifunctional 3D Current Collectors for High Areal Capacity Li Anodes. Advanced Materials, 2017, 29, 1700389. | 11.1 | 495 |
| 24 | Rice husk-derived hierarchical silicon/nitrogen-doped carbon/carbon nanotube spheres as low-cost and high-capacity anodes for lithium-ion batteries. Nano Energy, 2016, 25, 120-127. | 8.2 | 454 |
| 25 | Selfâ€Assembled Nanocomposite of Silicon Nanoparticles Encapsulated in Graphene through Electrostatic Attraction for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2012, 2, 1086-1090. | 10.2 | 447 |
| 26 | Advanced Micro/Nanostructures for Lithium Metal Anodes. Advanced Science, 2017, 4, 1600445. | 5.6 | 444 |
| 27 | Suppressing the P2â€“O2 Phase Transition of Na<sub>0.67</sub>Mn<sub>0.67</sub>Ni<sub>0.33</sub>O<sub>2</sub> by Magnesium Substitution for Improved Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2016, 55, 7445-7449. | 7.2 | 439 |
| 28 | Improving the Electrode Performance of Ge through Ge@C Coreâ€“Shell Nanoparticles and Graphene Networks. Journal of the American Chemical Society, 2012, 134, 2512-2515. | 6.6 | 436 |
| 29 | Nanostructured Polyaniline-Decorated Pt/C@PANI Coreâ€“Shell Catalyst with Enhanced Durability and Activity. Journal of the American Chemical Society, 2012, 134, 13252-13255. | 6.6 | 430 |
| 30 | Facile synthesis of silicon nanoparticles inserted into graphene sheets as improved anode materials for lithium-ion batteries. Chemical Communications, 2012, 48, 2198. | 2.2 | 417 |
| 31 | Stable Li Plating/Stripping Electrochemistry Realized by a Hybrid Li Reservoir in Spherical Carbon Granules with 3D Conducting Skeletons. Journal of the American Chemical Society, 2017, 139, 5916-5922. | 6.6 | 410 |
| 32 | Subzeroâ€Temperature Cathode for a Sodiumâ€Ion Battery. Advanced Materials, 2016, 28, 7243-7248. | 11.1 | 406 |
| 33 | Dendrite-Free Li-Metal Battery Enabled by a Thin Asymmetric Solid Electrolyte with Engineered Layers. Journal of the American Chemical Society, 2018, 140, 82-85. | 6.6 | 404 |
| 34 | Towards better Li metal anodes: Challenges and strategies. Materials Today, 2020, 33, 56-74. | 8.3 | 404 |
| 35 | Uniform Lithium Nucleation/Growth Induced by Lightweight Nitrogenâ€Doped Graphitic Carbon Foams for Highâ€Performance Lithium Metal Anodes. Advanced Materials, 2018, 30, 1706216. | 11.1 | 401 |
| 36 | Reshaping Lithium Plating/Stripping Behavior via Bifunctional Polymer Electrolyte for Room-Temperature Solid Li Metal Batteries. Journal of the American Chemical Society, 2016, 138, 15825-15828. | 6.6 | 399 |

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| 37 | Sulfur Encapsulated in Graphitic Carbon Nanocages for Highâ€Rate and Longâ€Cycle Lithiumâ€“Sulfur Batteries. Advanced Materials, 2016, 28, 9539-9544. | 11.1 | 392 |
| 38 | An Advanced Seleniumâ€“Carbon Cathode for Rechargeable Lithiumâ€“Selenium Batteries. Angewandte Chemie - International Edition, 2013, 52, 8363-8367. | 7.2 | 391 |
| 39 | Synthesis of CuO/graphene nanocomposite as a high-performance anode material for lithium-ion batteries. Journal of Materials Chemistry, 2010, 20, 10661. | 6.7 | 383 |
| 40 | Stable Li Metal Anodes via Regulating Lithium Plating/Stripping in Vertically Aligned Microchannels. Advanced Materials, 2017, 29, 1703729. | 11.1 | 381 |
| 41 | Improved Electrode Performance of Porous LiFePO<sub>4</sub> Using RuO<sub>2</sub> as an Oxidic Nanoscale Interconnect. Advanced Materials, 2007, 19, 1963-1966. | 11.1 | 380 |
| 42 | A Sandwichâ€Like Hierarchically Porous Carbon/Graphene Composite as a Highâ€Performance Anode Material for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2014, 4, 1301584. | 10.2 | 365 |
| 43 | Mono dispersed SnO2 nanoparticles on both sides of single layer graphene sheets as anode materials in Li-ion batteries. Journal of Materials Chemistry, 2010, 20, 5462. | 6.7 | 362 |
| 44 | Carbonâ€Nanotubeâ€Decorated Nanoâ€LiFePO<sub>4</sub> @C Cathode Material with Superior Highâ€Rate and Lowâ€Temperature Performances for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2013, 3, 1155-1160. | 10.2 | 351 |
| 45 | Highâ€Energy/Power and Lowâ€Temperature Cathode for Sodiumâ€Ion Batteries: In Situ XRD Study and Superior Fullâ€Cell Performance. Advanced Materials, 2017, 29, 1701968. | 11.1 | 350 |
| 46 | Suppressing Surface Lattice Oxygen Release of Liâ€Rich Cathode Materials via Heterostructured Spinel Li<sub>4</sub>Mn<sub>5</sub>O<sub>12</sub> Coating. Advanced Materials, 2018, 30, e1801751. | 11.1 | 348 |
| 47 | Na <sup>+</sup> /vacancy disordering promises high-rate Na-ion batteries. Science Advances, 2018, 4, eaar6018. | 4.7 | 341 |
| 48 | Upgrading traditional liquid electrolyte via in situ gelation for future lithium metal batteries. Science Advances, 2018, 4, eaat5383. | 4.7 | 337 |
| 49 | Highâ€Capacity Cathode Material with High Voltage for Liâ€Ion Batteries. Advanced Materials, 2018, 30, 1705575. | 11.1 | 333 |
| 50 | Extended Electrochemical Window of Solid Electrolytes via Heterogeneous Multilayered Structure for Highâ€Voltage Lithium Metal Batteries. Advanced Materials, 2019, 31, e1807789. | 11.1 | 333 |
| 51 | Free-Standing Hollow Carbon Fibers as High-Capacity Containers for Stable Lithium Metal Anodes. Joule, 2017, 1, 563-575. | 11.7 | 329 |
| 52 | Solid-State Lithium Metal Batteries Promoted by Nanotechnology: Progress and Prospects. ACS Energy Letters, 2017, 2, 1385-1394. | 8.8 | 314 |
| 53 | Highly Dispersed RuO<sub>2</sub> Nanoparticles on Carbon Nanotubes: Facile Synthesis and Enhanced Supercapacitance Performance. Journal of Physical Chemistry C, 2010, 114, 2448-2451. | 1.5 | 312 |
| 54 | Ultraâ€Uniform SnO<sub>x</sub>/Carbon Nanohybrids toward Advanced Lithiumâ€Ion Battery Anodes. Advanced Materials, 2014, 26, 3943-3949. | 11.1 | 311 |

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|---|---|---|---|
| 55 | Tiâ€Substituted NaNi<sub>0.5</sub>Mn<sub>0.5â€<</sub><sub>x</sub>Ti<sub>x</sub>O<sub>2</sub> Cathodes with Reversible O3â"P3 Phase Transition for Highâ€Performance Sodiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1700210. | 11.1 | 309 |
| 56 | Designing Air-Stable O3-Type Cathode Materials by Combined Structure Modulation for Na-Ion Batteries. Journal of the American Chemical Society, 2017, 139, 8440-8443. | 6.6 | 303 |
| 57 | Three-Dimensional Self-Organization of Supramolecular Self-Assembled Porphyrin Hollow Hexagonal Nanoprisms. Journal of the American Chemical Society, 2005, 127, 17090-17095. | 6.6 | 302 |
| 58 | Synthesis of MoS2 nanosheetâ€"graphene nanosheet hybrid materials for stable lithium storage. Chemical Communications, 2013, 49, 1838. | 2.2 | 293 |
| 59 | Sodium iron hexacyanoferrate with high Na content as a Na-rich cathode material for Na-ion batteries. Nano Research, 2015, 8, 117-128. | 5.8 | 292 |
| 60 | Recent Advancements in Polymer-Based Composite Electrolytes for Rechargeable Lithium Batteries. Electrochemical Energy Reviews, 2018, 1, 113-138. | 13.1 | 290 |
| 61 | Enhancing the Kinetics of Liâ€Rich Cathode Materials through the Pinning Effects of Gradient Surface Na<sup>+</sup> Doping. Advanced Energy Materials, 2016, 6, 1501914. | 10.2 | 288 |
| 62 | Guiding Uniform Li Plating/Stripping through Lithiumâ€"Aluminum Alloying Medium for Longâ€Life Li Metal Batteries. Angewandte Chemie - International Edition, 2019, 58, 1094-1099. | 7.2 | 287 |
| 63 | Insight into the Effect of Boron Doping on Sulfur/Carbon Cathode in Lithiumâ€"Sulfur Batteries. ACS Applied Materials & Interfaces, 2014, 6, 8789-8795. | 4.0 | 286 |
| 64 | Cuâ€Si Nanocable Arrays as Highâ€Rate Anode Materials for Lithiumâ€Ion Batteries. Advanced Materials, 2011, 23, 4415-4420. | 11.1 | 283 |
| 65 | Ionothermal synthesis of sulfur-doped porous carbons hybridized with graphene as superior anode materials for lithium-ion batteries. Chemical Communications, 2012, 48, 10663. | 2.2 | 278 |
| 66 | Research progress regarding Si-based anode materials towards practical application in high energy density Li-ion batteries. Materials Chemistry Frontiers, 2017, 1, 1691-1708. | 3.2 | 277 |
| 67 | Engineering Janus Interfaces of Ceramic Electrolyte via Distinct Functional Polymers for Stable High-Voltage Li-Metal Batteries. Journal of the American Chemical Society, 2019, 141, 9165-9169. | 6.6 | 272 |
| 68 | Introducing Dual Functional CNT Networks into CuO Nanomicrospheres toward Superior Electrode Materials for Lithium-Ion Batteries. Chemistry of Materials, 2008, 20, 3617-3622. | 3.2 | 270 |
| 69 | Facile Synthesis of Blocky SiO<sub>x</sub>/C with Graphiteâ€Like Structure for Highâ€Performance Lithiumâ€Ion Battery Anodes. Advanced Functional Materials, 2018, 28, 1705235. | 7.8 | 260 |
| 70 | High-Yield Gasâ"Liquid Interfacial Synthesis of Highly Dispersed Fe<sub>3</sub>O<sub>4</sub> Nanocrystals and Their Application in Lithium-Ion Batteries. Chemistry of Materials, 2009, 21, 1162-1166. | 3.2 | 256 |
| 71 | SiO<sub>x</sub> Encapsulated in Graphene Bubble Film: An Ultrastable Liâ€Ion Battery Anode. Advanced Materials, 2018, 30, e1707430. | 11.1 | 243 |
| 72 | Synthesis of Monodispersed Wurtzite Structure CuInSe<sub>2</sub> Nanocrystals and Their Application in High-Performance Organicâ"Inorganic Hybrid Photodetectors. Journal of the American Chemical Society, 2010, 132, 12218-12221. | 6.6 | 242 |

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|---|---|---|---|
| 73 | Superior radical polymer cathode material with a two-electron process redox reaction promoted by graphene. Energy and Environmental Science, 2012, 5, 5221-5225. | 15.6 | 241 |
| 74 | Facile synthesis of MoS2@CMK-3 nanocomposite as an improved anode material for lithium-ion batteries. Nanoscale, 2012, 4, 5868. | 2.8 | 240 |
| 75 | Anisotropic Photoresponse Properties of Single Micrometerâ€Sized GeSe Nanosheet. Advanced Materials, 2012, 24, 4528-4533. | 11.1 | 229 |
| 76 | In-situ plasticized polymer electrolyte with double-network for flexible solid-state lithium-metal batteries. Energy Storage Materials, 2018, 10, 85-91. | 9.5 | 227 |
| 77 | Elemental Selenium for Electrochemical Energy Storage. Journal of Physical Chemistry Letters, 2015, 6, 256-266. | 2.1 | 226 |
| 78 | Synthesis of hierarchically mesoporous anatase spheres and their application in lithium batteries. Chemical Communications, 2006, , 2783. | 2.2 | 221 |
| 79 | Passivation of Lithium Metal Anode via Hybrid Ionic Liquid Electrolyte toward Stable Li Plating/Stripping. Advanced Science, 2017, 4, 1600400. | 5.6 | 220 |
| 80 | Electrochemical lithiation synthesis of nanoporous materials with superior catalytic and capacitive activity. Nature Materials, 2006, 5, 713-717. | 13.3 | 219 |
| 81 | Electrochemical (De)Lithiation of 1D Sulfur Chains in Liâ€“S Batteries: A Model System Study. Journal of the American Chemical Society, 2015, 137, 2215-2218. | 6.6 | 209 |
| 82 | Advanced Porous Carbon Materials for Highâ€Efficient Lithium Metal Anodes. Advanced Energy Materials, 2017, 7, 1700530. | 10.2 | 208 |
| 83 | Î±-Fe<sub>2</sub>O<sub>3</sub> Nanostructures: Inorganic Salt-Controlled Synthesis and Their Electrochemical Performance toward Lithium Storage. Journal of Physical Chemistry C, 2008, 112, 16824-16829. | 1.5 | 206 |
| 84 | A zero-strain insertion cathode material of nickel ferricyanide for sodium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 14061. | 5.2 | 206 |
| 85 | A Dualâ€Salt Gel Polymer Electrolyte with 3D Crossâ€Linked Polymer Network for Dendriteâ€Free Lithium Metal Batteries. Advanced Science, 2018, 5, 1800559. | 5.6 | 204 |
| 86 | Mitigating Voltage Decay of Li-Rich Cathode Material via Increasing Ni Content for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 20138-20146. | 4.0 | 197 |
| 87 | Symbiotic Coaxial Nanocables: Facile Synthesis and an Efficient and Elegant Morphological Solution to the Lithium Storage Problem. Chemistry of Materials, 2010, 22, 1908-1914. | 3.2 | 193 |
| 88 | Mitigating Interfacial Potential Drop of Cathodeâ€“Solid Electrolyte via Ionic Conductor Layer To Enhance Interface Dynamics for Solid Batteries. Journal of the American Chemical Society, 2018, 140, 6767-6770. | 6.6 | 192 |
| 89 | A Stable Layered Oxide Cathode Material for Highâ€Performance Sodiumâ€Ion Battery. Advanced Energy Materials, 2019, 9, 1803978. | 10.2 | 191 |
| 90 | Tuning the porous structure of carbon hosts for loading sulfur toward long lifespan cathode materials for Liâ€“S batteries. Journal of Materials Chemistry A, 2013, 1, 6602. | 5.2 | 189 |

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| 91 | Wet milled synthesis of an Sb/MWCNT nanocomposite for improved sodium storage. Journal of Materials Chemistry A, 2013, 1, 13727. | 5.2 | 188 |
| 92 | Synergism of Al-containing solid electrolyte interphase layer and Al-based colloidal particles for stable lithium anode. Nano Energy, 2017, 36, 411-417. | 8.2 | 187 |
| 93 | Improving cycling performance and rate capability of Ni-rich LiNi0.8Co0.1Mn0.1O2 cathode materials by Li4Ti5O12 coating. Electrochimica Acta, 2018, 268, 358-365. | 2.6 | 186 |
| 94 | An O3-type NaNi<sub>0.5</sub>Mn<sub>0.5</sub>O<sub>2</sub>cathode for sodium-ion batteries with improved rate performance and cycling stability. Journal of Materials Chemistry A, 2016, 4, 17660-17664. | 5.2 | 185 |
| 95 | Solvothermal Synthesis of LiFePO4 Hierarchically Dumbbell-Like Microstructures by Nanoplate Self-Assembly and Their Application as a Cathode Material in Lithium-Ion Batteries. Journal of Physical Chemistry C, 2009, 113, 3345-3351. | 1.5 | 184 |
| 96 | SnO<sub>2</sub>-Based Hierarchical Nanomicrostructures: Facile Synthesis and Their Applications in Gas Sensors and Lithium-Ion Batteries. Journal of Physical Chemistry C, 2009, 113, 14213-14219. | 1.5 | 183 |
| 97 | Progress of the Interface Design in Allâ€Solidâ€State Liâ€“S Batteries. Advanced Functional Materials, 2018, 28, 1707533. | 7.8 | 182 |
| 98 | Rational Design of Anode Materials Based on Groupâ€…IVA Elements (Si, Ge, and Sn) for Lithiumâ€ion Batteries. Chemistry - an Asian Journal, 2013, 8, 1948-1958. | 1.7 | 181 |
| 99 | Tuning wettability of molten lithium via a chemical strategy for lithium metal anodes. Nature Communications, 2019, 10, 4930. | 5.8 | 181 |
| 100 | Electrospray Synthesis of Silicon/Carbon Nanoporous Microspheres as Improved Anode Materials for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 14148-14154. | 1.5 | 177 |
| 101 | Conductive graphite fiber as a stable host for zinc metal anodes. Electrochimica Acta, 2017, 244, 172-177. | 2.6 | 175 |
| 102 | Electrospun Silicon Nanoparticle/Porous Carbon Hybrid Nanofibers for Lithiumâ€ion Batteries. Small, 2013, 9, 2684-2688. | 5.2 | 164 |
| 103 | Construction of homogeneously Al3+ doped Ni rich Ni-Co-Mn cathode with high stable cycling performance and storage stability via scalable continuous precipitation. Electrochimica Acta, 2018, 291, 84-94. | 2.6 | 163 |
| 104 | Advances of polymer binders for <scp>siliconâ€based</scp> anodes in high energy density <scp>lithiumâ€ion</scp> batteries. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 460-501. | 8.5 | 163 |
| 105 | Nitridingâ€Interfaceâ€Regulated Lithium Plating Enables Flameâ€Retardant Electrolytes for Highâ€Voltage Lithium Metal Batteries. Angewandte Chemie - International Edition, 2019, 58, 7802-7807. | 7.2 | 161 |
| 106 | Highly Disordered Carbon as a Superior Anode Material for Roomâ€Temperature Sodiumâ€ion Batteries. ChemElectroChem, 2014, 1, 83-86. | 1.7 | 158 |
| 107 | The 2021 battery technology roadmap. Journal Physics D: Applied Physics, 2021, 54, 183001. | 1.3 | 158 |
| 108 | Improving the Electrochemical Performance of the Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub> Electrode in a Rechargeable Magnesium Battery by Lithiumâ€“Magnesium Coâ€intercalation. Angewandte Chemie - International Edition, 2015, 54, 5757-5761. | 7.2 | 156 |

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| 109 | Reducing the volume deformation of high capacity SiOx/G/C anode toward industrial application in high energy density lithium-ion batteries. Nano Energy, 2019, 60, 485-492. | 8.2 | 156 |
| 110 | Microemulsion Assisted Assembly of 3D Porous S/Graphene@gâ€C<sub>3</sub>N<sub>4</sub> Hybrid Sponge as Freeâ€Standing Cathodes for High Energy Density Liâ€“S Batteries. Advanced Energy Materials, 2018, 8, 1702839. | 10.2 | 147 |
| 111 | Bridging Interparticle Li<sup>+</sup> Conduction in a Soft Ceramic Oxide Electrolyte. Journal of the American Chemical Society, 2021, 143, 5717-5726. | 6.6 | 144 |
| 112 | Exposing {010} Active Facets by Multipleâ€Layer Oriented Stacking Nanosheets for Highâ€Performance Capacitive Sodiumâ€Ion Oxide Cathode. Advanced Materials, 2018, 30, e1803765. | 11.1 | 142 |
| 113 | A P2/P3 composite layered cathode for high-performance Na-ion full batteries. Nano Energy, 2019, 55, 143-150. | 8.2 | 142 |
| 114 | Layered Oxide Cathodes Promoted by Structure Modulation Technology for Sodiumâ€Ion Batteries. Advanced Functional Materials, 2020, 30, 2001334. | 7.8 | 142 |
| 115 | The Electrochemistry with Lithium versus Sodium of Selenium Confined To Slit Micropores in Carbon. Nano Letters, 2016, 16, 4560-4568. | 4.5 | 140 |
| 116 | Direct tracking of the polysulfide shuttling and interfacial evolution in all-solid-state lithiumâ€“sulfur batteries: a degradation mechanism study. Energy and Environmental Science, 2019, 12, 2496-2506. | 15.6 | 140 |
| 117 | Synthesis of Single-Crystalline Co<sub>3</sub>O<sub>4</sub> Octahedral Cages with Tunable Surface Aperture and Their Lithium Storage Properties. Journal of Physical Chemistry C, 2009, 113, 15553-15558. | 1.5 | 138 |
| 118 | Microfluidic etching for fabrication of flexible and all-solid-state micro supercapacitor based on MnO2 nanoparticles. Nanoscale, 2011, 3, 2703. | 2.8 | 138 |
| 119 | Uniform Nucleation of Lithium in 3D Current Collectors via Bromide Intermediates for Stable Cycling Lithium Metal Batteries. Journal of the American Chemical Society, 2018, 140, 18051-18057. | 6.6 | 138 |
| 120 | Efficient 3D Conducting Networks Built by Graphene Sheets and Carbon Nanoparticles for High-Performance Silicon Anode. ACS Applied Materials & Interfaces, 2012, 4, 2824-2828. | 4.0 | 135 |
| 121 | Advanced Seâ€“C nanocomposites: a bifunctional electrode material for both Liâ€“Se and Li-ion batteries. Journal of Materials Chemistry A, 2014, 2, 13293. | 5.2 | 133 |
| 122 | A Highâ€Performance Composite Electrode for Vanadium Redox Flow Batteries. Advanced Energy Materials, 2017, 7, 1700461. | 10.2 | 133 |
| 123 | A highly reversible, low-strain Mg-ion insertion anode material for rechargeable Mg-ion batteries. NPG Asia Materials, 2014, 6, e120-e120. | 3.8 | 130 |
| 124 | Trapping Lithium into Hollow Silica Microspheres with a Carbon Nanotube Core for Dendrite-Free Lithium Metal Anodes. Nano Letters, 2018, 18, 297-301. | 4.5 | 130 |
| 125 | A robust composite of SnO2 hollow nanospheres enwrapped by graphene as a high-capacity anode material for lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 17456. | 6.7 | 129 |
| 126 | Layer Structured Î±-Fe<sub>2</sub>O<sub>3</sub> Nanodisk/Reduced Graphene Oxide Composites as High-Performance Anode Materials for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 3932-3936. | 4.0 | 129 |

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| 127 | Progress of rechargeable lithium metal batteries based on conversion reactions. National Science Review, 2017, 4, 54-70. | 4.6 | 128 |
| 128 | Insights into the Improved High-Voltage Performance of Li-Incorporated Layered Oxide Cathodes for Sodium-Ion Batteries. CheM, 2018, 4, 2124-2139. | 5.8 | 128 |
| 129 | Selfâ€Healable Solid Polymeric Electrolytes for Stable and Flexible Lithium Metal Batteries. Angewandte Chemie - International Edition, 2019, 58, 18146-18149. | 7.2 | 128 |
| 130 | Building an Air Stable and Lithium Deposition Regulable Garnet Interface from Moderateâ€Temperature Conversion Chemistry. Angewandte Chemie - International Edition, 2020, 59, 12069-12075. | 7.2 | 128 |
| 131 | High-safety lithium-sulfur battery with prelithiated Si/C anode and ionic liquid electrolyte. Electrochimica Acta, 2013, 91, 58-61. | 2.6 | 127 |
| 132 | Advanced P2-Na<sub>2/3</sub>Ni<sub>1/3</sub>Mn<sub>7/12</sub>Fe<sub>1/12</sub>O<sub>2</sub> Cathode Material with Suppressed P2â€“O2 Phase Transition toward High-Performance Sodium-Ion Battery. ACS Applied Materials & Interfaces, 2018, 10, 34272-34282. | 4.0 | 127 |
| 133 | Ameliorating the Interfacial Problems of Cathode and Solidâ€State Electrolytes by Interface Modification of Functional Polymers. Advanced Energy Materials, 2018, 8, 1801528. | 10.2 | 127 |
| 134 | 3D zinc@carbon fiber composite framework anode for aqueous Znâ€“MnO<sub>2</sub> batteries. RSC Advances, 2018, 8, 19157-19163. | 1.7 | 126 |
| 135 | Interfacial Mechanism in Lithiumâ€“Sulfur Batteries: How Salts Mediate the Structure Evolution and Dynamics. Journal of the American Chemical Society, 2018, 140, 8147-8155. | 6.6 | 125 |
| 136 | Boron-doped sodium layered oxide for reversible oxygen redox reaction in Na-ion battery cathodes. Nature Communications, 2021, 12, 5267. | 5.8 | 122 |
| 137 | Controllable AuPt bimetallic hollow nanostructures. Chemical Communications, 2004, , 1496. | 2.2 | 121 |
| 138 | Hierarchically micro/mesoporous activated graphene with a large surface area for high sulfur loading in Liâ€“S batteries. Journal of Materials Chemistry A, 2015, 3, 4799-4802. | 5.2 | 121 |
| 139 | Tin Nanoparticles Impregnated in Nitrogen-Doped Graphene for Lithium-Ion Battery Anodes. Journal of Physical Chemistry C, 2013, 117, 25367-25373. | 1.5 | 120 |
| 140 | Better lithium-ion batteries with nanocable-like electrode materials. Energy and Environmental Science, 2011, 4, 1634. | 15.6 | 119 |
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