List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Holey Graphitic Carbon Nitride Nanosheets with Carbon Vacancies for Highly Improved Photocatalytic Hydrogen Production. Advanced Functional Materials, 2015, 25, 6885-6892. | 14.9 | 898 |
| 2 | Twinborn TiO ₂ –TiN heterostructures enabling smooth trapping–diffusion–conversion of polysulfides towards ultralong life lithium–sulfur batteries. Energy and Environmental Science, 2017, 10, 1694-1703. | 30.8 | 884 |
| 3 | Selfâ€Assembled Freeâ€Standing Graphite Oxide Membrane. Advanced Materials, 2009, 21, 3007-3011. | 21.0 | 868 |
| 4 | On the origin of the stability of graphene oxide membranes in water. Nature Chemistry, 2015, 7, 166-170. | 13.6 | 788 |
| 5 | Chemical Dealloying Derived 3D Porous Current Collector for Li Metal Anodes. Advanced Materials, 2016, 28, 6932-6939. | 21.0 | 751 |
| 6 | Low-Temperature Exfoliated Graphenes: Vacuum-Promoted Exfoliation and Electrochemical Energy Storage. ACS Nano, 2009, 3, 3730-3736. | 14.6 | 694 |
| 7 | Catalytic Effects in Lithium–Sulfur Batteries: Promoted Sulfur Transformation and Reduced Shuttle Effect. Advanced Science, 2018, 5, 1700270. | 11.2 | 669 |
| 8 | Dendriteâ€Free, Highâ€Rate, Longâ€Life Lithium Metal Batteries with a 3D Crossâ€Linked Network Polymer Electrolyte. Advanced Materials, 2017, 29, 1604460. | 21.0 | 604 |
| 9 | Extremely safe, high-rate and ultralong-life zinc-ion hybrid supercapacitors. Energy Storage Materials, 2018, 13, 96-102. | 18.0 | 568 |
| 10 | Macroscopic 3D Porous Graphitic Carbon Nitride Monolith for Enhanced Photocatalytic Hydrogen Evolution. Advanced Materials, 2015, 27, 4634-4639. | 21.0 | 567 |
| 11 | Towards ultrahigh volumetric capacitance: graphene derived highly dense but porous carbons for supercapacitors. Scientific Reports, 2013, 3, 2975. | 3.3 | 541 |
| 12 | Flexible electrodes and supercapacitors for wearable energy storage: a review by category. Journal of Materials Chemistry A, 2016, 4, 4659-4685. | 10.3 | 493 |
| 13 | Capture and Catalytic Conversion of Polysulfides by In Situ Built TiO ₂ â€MXene Heterostructures for Lithium–Sulfur Batteries. Advanced Energy Materials, 2019, 9, 1900219. | 19.5 | 481 |
| 14 | A honeycomb-like porous carbon derived from pomelo peel for use in high-performance supercapacitors. Nanoscale, 2014, 6, 13831-13837. | 5.6 | 434 |
| 15 | Progress and Perspective of Ceramic/Polymer Composite Solid Electrolytes for Lithium Batteries. Advanced Science, 2020, 7, 1903088. | 11.2 | 403 |
| 16 | Achieving superb sodium storage performance on carbon anodes through an ether-derived solid electrolyte interphase. Energy and Environmental Science, 2017, 10, 370-376. | 30.8 | 395 |
| 17 | Review of Recent Development of In Situ/Operando Characterization Techniques for Lithium Battery Research. Advanced Materials, 2019, 31, e1806620. | 21.0 | 390 |
| 18 | Low Resistance–Integrated Allâ€Solidâ€State Battery Achieved by Li ₇ La ₃ Zr ₂ O ₁₂ Nanowire Upgrading Polyethylene Oxide (PEO) Composite Electrolyte and PEO Cathode Binder. Advanced Functional Materials, 2019, 29, 1805301. | 14.9 | 390 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Fast Gelation of Ti ₃ C ₂ T <i>_x</i> MXene Initiated by Metal Ions. Advanced Materials, 2019, 31, e1902432. | 21.0 | 389 |
| 20 | Graphene-based materials for electrochemical energy storage devices: Opportunities and challenges. Energy Storage Materials, 2016, 2, 107-138. | 18.0 | 371 |
| 21 | Towards superior volumetric performance: design and preparation of novel carbon materials for energy storage. Energy and Environmental Science, 2015, 8, 1390-1403. | 30.8 | 364 |
| 22 | 3D Macroscopic Architectures from Selfâ€Assembled MXene Hydrogels. Advanced Functional Materials, 2019, 29, 1903960. | 14.9 | 360 |
| 23 | A Corrosionâ€Resistant and Dendriteâ€Free Zinc Metal Anode in Aqueous Systems. Small, 2020, 16, e2001736. | 10.0 | 354 |
| 24 | Propelling polysulfides transformation for high-rate and long-life lithium–sulfur batteries. Nano Energy, 2017, 33, 306-312. | 16.0 | 352 |
| 25 | Ultra-thick graphene bulk supercapacitor electrodes for compact energy storage. Energy and Environmental Science, 2016, 9, 3135-3142. | 30.8 | 347 |
| 26 | SiO ₂ Hollow Nanosphereâ€Based Composite Solid Electrolyte for Lithium Metal Batteries to Suppress Lithium Dendrite Growth and Enhance Cycle Life. Advanced Energy Materials, 2016, 6, 1502214. | 19.5 | 346 |
| 27 | Compact 3D Copper with Uniform Porous Structure Derived by Electrochemical Dealloying as Dendriteâ€Free Lithium Metal Anode Current Collector. Advanced Energy Materials, 2018, 8, 1800266. | 19.5 | 336 |
| 28 | Selfâ€Assembly of Graphene Oxide at Interfaces. Advanced Materials, 2014, 26, 5586-5612. | 21.0 | 334 |
| 29 | Facile synthesis of Li4Ti5O12/C composite with super rate performance. Energy and Environmental Science, 2012, 5, 9595. | 30.8 | 323 |
| 30 | Twoâ€Dimensional Porous Carbon: Synthesis and Ionâ€Transport Properties. Advanced Materials, 2015, 27, 5388-5395. | 21.0 | 318 |
| 31 | Fabrication of an MOF-derived heteroatom-doped Co/CoO/carbon hybrid with superior sodium storage performance for sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 15356-15366. | 10.3 | 317 |
| 32 | Vertically Aligned Carbon Nanotubes Grown on Graphene Paper as Electrodes in Lithiumâ€Ion Batteries and Dye‣ensitized Solar Cells. Advanced Energy Materials, 2011, 1, 486-490. | 19.5 | 309 |
| 33 | Opening Twoâ€Dimensional Materials for Energy Conversion and Storage: A Concept. Advanced Energy Materials, 2017, 7, 1602684. | 19.5 | 304 |
| 34 | In Situ Synthesis of a Hierarchical All‣olid‣tate Electrolyte Based on Nitrile Materials for Highâ€Performance Lithiumâ€Ion Batteries. Advanced Energy Materials, 2015, 5, 1500353. | 19.5 | 300 |
| 35 | Evolution of the electrochemical interface in sodium ion batteries with ether electrolytes. Nature Communications, 2019, 10, 725. | 12.8 | 289 |
| 36 | Gassing in Li4Ti5O12-based batteries and its remedy. Scientific Reports, 2012, 2, 913. | 3.3 | 284 |

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| 37 | Hierarchically aminated graphene honeycombs for electrochemical capacitive energy storage. Journal of Materials Chemistry, 2012, 22, 14076. | 6.7 | 280 |
| 38 | A non-flammable hydrous organic electrolyte for sustainable zinc batteries. Nature Sustainability, 2022, 5, 205-213. | 23.7 | 277 |
| 39 | Flexible and planar graphene conductive additives for lithium-ion batteries. Journal of Materials Chemistry, 2010, 20, 9644. | 6.7 | 276 |
| 40 | Vertically Aligned Lithiophilic CuO Nanosheets on a Cu Collector to Stabilize Lithium Deposition for Lithium Metal Batteries. Advanced Energy Materials, 2018, 8, 1703404. | 19.5 | 274 |
| 41 | Bidirectional Catalysts for Liquid–Solid Redox Conversion in Lithium–Sulfur Batteries. Advanced Materials, 2020, 32, e2000315. | 21.0 | 274 |
| 42 | Porous Al Current Collector for Dendrite-Free Na Metal Anodes. Nano Letters, 2017, 17, 5862-5868. | 9.1 | 255 |
| 43 | A possible buckybowl-like structure of zeolite templated carbon. Carbon, 2009, 47, 1220-1230. | 10.3 | 243 |
| 44 | The Assembly of MXenes from 2D to 3D. Advanced Science, 2020, 7, 1903077. | 11.2 | 231 |
| 45 | Selective Catalysis Remedies Polysulfide Shuttling in Lithiumâ€6ulfur Batteries. Advanced Materials, 2021, 33, e2101006. | 21.0 | 229 |
| 46 | Caging tin oxide in three-dimensional graphene networks for superior volumetric lithium storage. Nature Communications, 2018, 9, 402. | 12.8 | 227 |
| 47 | Optimized Catalytic WS ₂ –WO ₃ Heterostructure Design for Accelerated Polysulfide Conversion in Lithium–Sulfur Batteries. Advanced Energy Materials, 2020, 10, 2000091. | 19.5 | 221 |
| 48 | Breathable and Wearable Energy Storage Based on Highly Flexible Paper Electrodes. Advanced Materials, 2016, 28, 9313-9319. | 21.0 | 219 |
| 49 | Cross-linked beta alumina nanowires with compact gel polymer electrolyte coating for ultra-stable sodium metal battery. Nature Communications, 2019, 10, 4244. | 12.8 | 219 |
| 50 | Rational design of MoS ₂ @graphene nanocables: towards high performance electrode materials for lithium ion batteries. Energy and Environmental Science, 2014, 7, 3320-3325. | 30.8 | 218 |
| 51 | A sheet-like porous carbon for high-rate supercapacitors produced by the carbonization of an eggplant. Carbon, 2015, 92, 11-14. | 10.3 | 217 |
| 52 | A Metalâ€Free Supercapacitor Electrode Material with a Record High Volumetric Capacitance over 800 F cm ^{â^'3} . Advanced Materials, 2015, 27, 8082-8087. | 21.0 | 211 |
| 53 | Progress and Perspective of Solid‣tate Lithium–Sulfur Batteries. Advanced Functional Materials, 2018, 28, 1707570. | 14.9 | 194 |
| 54 | Simultaneous Production of Highâ€Performance Flexible Textile Electrodes and Fiber Electrodes for Wearable Energy Storage. Advanced Materials, 2016, 28, 1675-1681. | 21.0 | 186 |

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|----|---|------|-----------|
| 55 | Processable and Moldable Sodiumâ€Metal Anodes. Angewandte Chemie - International Edition, 2017, 56, 11921-11926. | 13.8 | 186 |
| 56 | Could graphene construct an effective conducting network in a high-power lithium ion battery?. Nano Energy, 2012, 1, 429-439. | 16.0 | 185 |
| 57 | Oriented and Interlinked Porous Carbon Nanosheets with an Extraordinary Capacitive Performance. Chemistry of Materials, 2014, 26, 6896-6903. | 6.7 | 180 |
| 58 | Dense coating of Li4Ti5O12 and graphene mixture on the separator to produce long cycle life of lithium-sulfur battery. Nano Energy, 2016, 30, 1-8. | 16.0 | 179 |
| 59 | A bio-derived sheet-like porous carbon with thin-layer pore walls for ultrahigh-power supercapacitors. Nano Energy, 2020, 70, 104531. | 16.0 | 168 |
| 60 | Functional Carbons Remedy the Shuttling of Polysulfides in Lithium–Sulfur Batteries: Confining, Trapping, Blocking, and Breaking up. Advanced Functional Materials, 2018, 28, 1800508. | 14.9 | 164 |
| 61 | A Selfâ€Regulated Interface toward Highly Reversible Aqueous Zinc Batteries. Advanced Energy Materials, 2022, 12, . | 19.5 | 164 |
| 62 | Co-electro-deposition of the MnO2–PEDOT:PSS nanostructured composite for high areal mass, flexible asymmetric supercapacitor devices. Journal of Materials Chemistry A, 2013, 1, 12432. | 10.3 | 163 |
| 63 | Commercial carbon molecular sieves as a high performance anode for sodium-ion batteries. Energy Storage Materials, 2016, 3, 18-23. | 18.0 | 163 |
| 64 | Encapsulating V ₂ O ₅ into carbon nanotubes enables the synthesis of flexible high-performance lithium ion batteries. Energy and Environmental Science, 2016, 9, 906-911. | 30.8 | 162 |
| 65 | A review of gassing behavior in Li ₄ Ti ₅ O ₁₂ -based lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 6368-6381. | 10.3 | 157 |
| 66 | Biomass Organs Control the Porosity of Their Pyrolyzed Carbon. Advanced Functional Materials, 2017, 27, 1604687. | 14.9 | 154 |
| 67 | Self-Assembled 3D Graphene Monolith from Solution. Journal of Physical Chemistry Letters, 2015, 6, 658-668. | 4.6 | 152 |
| 68 | Reduction of Graphene Oxide by Hydrogen Sulfide: A Promising Strategy for Pollutant Control and as an Electrode for Liâ€6 Batteries. Advanced Energy Materials, 2014, 4, 1301565. | 19.5 | 149 |
| 69 | Ethers Illume Sodiumâ€Based Battery Chemistry: Uniqueness, Surprise, and Challenges. Advanced Energy Materials, 2018, 8, 1801361. | 19.5 | 149 |
| 70 | Graphitic Carbon Nitride Induced Microâ€Electric Field for Dendriteâ€Free Lithium Metal Anodes. Advanced Energy Materials, 2019, 9, 1803186. | 19.5 | 147 |
| 71 | A high performance Li-ion capacitor constructed with Li4Ti5O12/C hybrid and porous graphene macroform. Journal of Power Sources, 2015, 282, 174-178. | 7.8 | 144 |
| 72 | Carbon coating to suppress the reduction decomposition of electrolyte on the Li4Ti5O12 electrode. Journal of Power Sources, 2012, 202, 253-261. | 7.8 | 142 |

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|----|---|------|-----------|
| 73 | Combining Fast Li-Ion Battery Cycling with Large Volumetric Energy Density: Grain Boundary Induced High Electronic and Ionic Conductivity in Li ₄ Ti ₅ O ₁₂ Spheres of Densely Packed Nanocrystallites. Chemistry of Materials, 2015, 27, 5647-5656. | 6.7 | 142 |
| 74 | Cobalt-Doping of Molybdenum Disulfide for Enhanced Catalytic Polysulfide Conversion in Lithium–Sulfur Batteries. ACS Nano, 2021, 15, 7491-7499. | 14.6 | 136 |
| 75 | Porous MnO2 for use in a high performance supercapacitor: replication of a 3D graphene network as a reactive template. Chemical Communications, 2013, 49, 11092. | 4.1 | 134 |
| 76 | Towards low temperature thermal exfoliation of graphite oxide for graphene production. Carbon, 2013, 62, 11-24. | 10.3 | 132 |
| 77 | A three-dimensional multilayer graphene web for polymer nanocomposites with exceptional transport properties and fracture resistance. Materials Horizons, 2018, 5, 275-284. | 12.2 | 129 |
| 78 | One-pot self-assembly of graphene/carbon nanotube/sulfur hybrid with three dimensionally interconnected structure for lithium–sulfur batteries. Journal of Power Sources, 2015, 295, 182-189. | 7.8 | 128 |
| 79 | Hierarchical MoS ₂ /Carbon microspheres as long-life and high-rate anodes for sodium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 5668-5677. | 10.3 | 128 |
| 80 | Shape-Tailorable Graphene-Based Ultra-High-Rate Supercapacitor for Wearable Electronics. ACS Nano, 2015, 9, 5636-5645. | 14.6 | 127 |
| 81 | Enhanced Sulfur Redox and Polysulfide Regulation via Porous VN-Modified Separator for Li–S Batteries. ACS Applied Materials & Interfaces, 2019, 11, 5687-5694. | 8.0 | 126 |
| 82 | A sandwich structure of graphene and nickel oxide with excellent supercapacitive performance. Journal of Materials Chemistry, 2011, 21, 9014. | 6.7 | 125 |
| 83 | Multi hierarchical construction-induced superior capacitive performances of flexible electrodes for wearable energy storage. Nano Energy, 2017, 34, 242-248. | 16.0 | 122 |
| 84 | N and S co-doped porous carbon spheres prepared using <scp> </scp> -cysteine as a dual functional agent for high-performance lithium–sulfur batteries. Chemical Communications, 2015, 51, 17720-17723. | 4.1 | 121 |
| 85 | Sulfur confined in nitrogen-doped microporous carbon used in a carbonate-based electrolyte for long-life, safe lithium-sulfur batteries. Carbon, 2016, 109, 1-6. | 10.3 | 119 |
| 86 | Capillary Encapsulation of Metallic Potassium in Aligned Carbon Nanotubes for Use as Stable Potassium Metal Anodes. Advanced Energy Materials, 2019, 9, 1901427. | 19.5 | 118 |
| 87 | Boosting Catalytic Activity by Seeding Nanocatalysts onto Interlayers to Inhibit Polysulfide Shuttling in Li–S Batteries. Advanced Functional Materials, 2021, 31, 2101980. | 14.9 | 116 |
| 88 | The effect of graphene wrapping on the performance of LiFePO4 for a lithium ion battery. Carbon, 2013, 57, 530-533. | 10.3 | 115 |
| 89 | Cellulose Nanofiber as a Distinct Structure-Directing Agent for Xylem-like Microhoneycomb Monoliths by Unidirectional Freeze-Drying. ACS Nano, 2016, 10, 10689-10697. | 14.6 | 115 |
| 90 | A Lightweight 3D Cu Nanowire Network with Phosphidation Gradient as Current Collector for Highâ€Đensity Nucleation and Stable Deposition of Lithium. Advanced Materials, 2019, 31, e1904991. | 21.0 | 114 |

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| 91 | Disassembly–Reassembly Approach to RuO ₂ /Graphene Composites for Ultrahigh Volumetric Capacitance Supercapacitor. Small, 2017, 13, 1701026. | 10.0 | 113 |
| 92 | Graphene-DNA hybrids: self-assembly and electrochemical detection performance. Journal of Materials Chemistry, 2010, 20, 6668. | 6.7 | 112 |
| 93 | Single-Atom Electrocatalysts for Lithium Sulfur Batteries: Progress, Opportunities, and Challenges. , 2020, 2, 1450-1463. | | 108 |
| 94 | Design Rules of a Sulfur Redox Electrocatalyst for Lithium–Sulfur Batteries. Advanced Materials, 2022, 34, e2110279. | 21.0 | 108 |
| 95 | Reviving catalytic activity of nitrides by the doping of the inert surface layer to promote polysulfide conversion in lithium-sulfur batteries. Nano Energy, 2019, 60, 305-311. | 16.0 | 106 |
| 96 | Carbon enables the practical use of lithium metal in a battery. Carbon, 2017, 123, 744-755. | 10.3 | 105 |
| 97 | Revisiting the Roles of Natural Graphite in Ongoing Lithiumâ€lon Batteries. Advanced Materials, 2022, 34, e2106704. | 21.0 | 99 |
| 98 | Catalyzing polysulfide conversion by g-C3N4 in a graphene network for long-life lithium-sulfur batteries. Nano Research, 2018, 11, 3480-3489. | 10.4 | 97 |
| 99 | Dense Graphene Monolith for High Volumetric Energy Density Li–S Batteries. Advanced Energy Materials, 2018, 8, 1703438. | 19.5 | 97 |
| 100 | DNA-dispersed graphene/NiO hybrid materials for highly sensitive non-enzymatic glucose sensor. Electrochimica Acta, 2012, 73, 129-135. | 5.2 | 96 |
| 101 | A three-dimensional graphene skeleton as a fast electron and ion transport network for electrochemical applications. Journal of Materials Chemistry A, 2014, 2, 3031. | 10.3 | 96 |
| 102 | Dimensionality, Function and Performance of Carbon Materials in Energy Storage Devices. Advanced Energy Materials, 2022, 12, 2100775. | 19.5 | 96 |
| 103 | The Template Synthesis of Double Coaxial Carbon Nanotubes with Nitrogen-Doped and Boron-Doped Multiwalls. Journal of the American Chemical Society, 2005, 127, 8956-8957. | 13.7 | 95 |
| 104 | Lamellar MXene Composite Aerogels with Sandwiched Carbon Nanotubes Enable Stable Lithium–Sulfur Batteries with a High Sulfur Loading. Advanced Functional Materials, 2021, 31, 2100793. | 14.9 | 95 |
| 105 | Compressed porous graphene particles for use as supercapacitor electrodes with excellent volumetric performance. Nanoscale, 2015, 7, 18459-18463. | 5.6 | 94 |
| 106 | Investigation of cyano resin-based gel polymer electrolyte: in situ gelation mechanism and electrode–electrolyte interfacial fabrication in lithium-ion battery. Journal of Materials Chemistry A, 2014, 2, 20059-20066. | 10.3 | 92 |
| 107 | A high-density graphene–sulfur assembly: a promising cathode for compact Li–S batteries. Nanoscale, 2015, 7, 5592-5597. | 5.6 | 92 |
| 108 | Monolithic carbons with spheroidal and hierarchical pores produced by the linkage of functionalized graphene sheets. Carbon, 2014, 69, 169-177. | 10.3 | 88 |

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| 109 | Quantifying the Volumetric Performance Metrics of Supercapacitors. Advanced Energy Materials, 2019, 9, 1900079. | 19.5 | 88 |
| 110 | Two-dimensional materials for lithium/sodium-ion capacitors. Materials Today Energy, 2019, 11, 30-45. | 4.7 | 88 |
| 111 | How a very trace amount of graphene additive works for constructing an efficient conductive network in LiCoO2-based lithium-ion batteries. Carbon, 2016, 103, 356-362. | 10.3 | 87 |
| 112 | A dual-functional gel-polymer electrolyte for lithium ion batteries with superior rate and safety performances. Journal of Materials Chemistry A, 2017, 5, 18888-18895. | 10.3 | 85 |
| 113 | Ultrafast high-volumetric sodium storage of folded-graphene electrodes through surface-induced redox reactions. Energy Storage Materials, 2015, 1, 112-118. | 18.0 | 83 |
| 114 | A carbon sandwich electrode with graphene filling coated by N-doped porous carbon layers for lithium–sulfur batteries. Journal of Materials Chemistry A, 2015, 3, 20218-20224. | 10.3 | 83 |
| 115 | Constructing a Highâ€Strength Solid Electrolyte Layer by In Vivo Alloying with Aluminum for an Ultrahighâ€Rate Lithium Metal Anode. Advanced Functional Materials, 2020, 30, 1907343. | 14.9 | 83 |
| 116 | Stacking up layers of polyaniline/carbon nanotube networks inside papers as highly flexible electrodes with large areal capacitance and superior rate capability. Journal of Materials Chemistry A, 2017, 5, 19934-19942. | 10.3 | 82 |
| 117 | Advanced Materials for Capturing Particulate Matter: Progress and Perspectives. Small Methods, 2018, 2, 1800012. | 8.6 | 82 |
| 118 | Reversible electrochemical oxidation of sulfur in ionic liquid for high-voltage Alâ^'S batteries. Nature Communications, 2021, 12, 5714. | 12.8 | 80 |
| 119 | High-performance ultrafiltration membranes based on polyethersulfone–graphene oxide composites. RSC Advances, 2013, 3, 21394. | 3.6 | 79 |
| 120 | "Concrete―inspired construction of a silicon/carbon hybrid electrode for high performance lithium ion battery. Carbon, 2015, 93, 59-67. | 10.3 | 78 |
| 121 | Li-ion and Na-ion transportation and storage properties in various sized TiO ₂ spheres with hierarchical pores and high tap density. Journal of Materials Chemistry A, 2017, 5, 4359-4367. | 10.3 | 78 |
| 122 | From Micropores to Ultra-micropores inside Hard Carbon: Toward Enhanced Capacity in Room-/Low-Temperature Sodium-Ion Storage. Nano-Micro Letters, 2021, 13, 98. | 27.0 | 78 |
| 123 | The Interplay of Oxygen Functional Groups and Folded Texture in Densified Graphene Electrodes for Compact Sodiumâ€Ion Capacitors. Advanced Energy Materials, 2018, 8, 1702395. | 19.5 | 75 |
| 124 | Twin-functional graphene oxide: compacting with Fe 2 O 3 into a high volumetric capacity anode for lithium ion battery. Energy Storage Materials, 2017, 6, 98-103. | 18.0 | 74 |
| 125 | A Directional Strain Sensor Based on Anisotropic Microhoneycomb Cellulose Nanofiber arbon Nanotube Hybrid Aerogels Prepared by Unidirectional Freeze Drying. Small, 2019, 15, e1805363. | 10.0 | 73 |
| 126 | MXenes induce epitaxial growth of size-controlled noble nanometals: A case study for surface enhanced Raman scattering (SERS). Journal of Materials Science and Technology, 2020, 40, 119-127. | 10.7 | 73 |

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| 127 | Interlayer engineering of Ti ₃ C ₂ T _x MXenes towards high capacitance supercapacitors. Nanoscale, 2020, 12, 763-771. | 5.6 | 73 |
| 128 | Realizing stable lithium deposition by <i>in situ</i> grown Cu ₂ S nanowires inside commercial Cu foam for lithium metal anodes. Journal of Materials Chemistry A, 2019, 7, 727-732. | 10.3 | 72 |
| 129 | Realizing High Volumetric Lithium Storage by Compact and Mechanically Stable Anode Designs. ACS Energy Letters, 2020, 5, 1986-1995. | 17.4 | 72 |
| 130 | Electrostatic-spraying an ultrathin, multifunctional and compact coating onto a cathode for a long-life and high-rate lithium-sulfur battery. Nano Energy, 2016, 30, 138-145. | 16.0 | 71 |
| 131 | A sliced orange-shaped ZnCo 2 O 4 material as anode for high-performance lithium ion battery. Energy Storage Materials, 2017, 6, 61-69. | 18.0 | 71 |
| 132 | Evolution of the effect of sulfur confinement in graphene-based porous carbons for use in Li–S batteries. Nanoscale, 2016, 8, 4447-4451. | 5.6 | 69 |
| 133 | Packing Activated Carbons into Dense Graphene Network by Capillarity for High Volumetric Performance Supercapacitors. Advanced Science, 2019, 6, 1802355. | 11.2 | 69 |
| 134 | An organic nickel salt-based electrolyte additive boosts homogeneous catalysis for lithium-sulfur batteries. Energy Storage Materials, 2020, 33, 290-297. | 18.0 | 69 |
| 135 | A graphene-based nanostructure with expanded ion transport channels for high rate Li-ion batteries. Chemical Communications, 2012, 48, 5904. | 4.1 | 68 |
| 136 | Necklace-like MoC sulfiphilic sites embedded in interconnected carbon networks for Li–S batteries with high sulfur loading. Journal of Materials Chemistry A, 2019, 7, 11298-11304. | 10.3 | 68 |
| 137 | Demystifying the catalysis in lithium–sulfur batteries: Characterization methods and techniques. SusMat, 2021, 1, 51-65. | 14.9 | 68 |
| 138 | Tailoring Microstructure of Grapheneâ€Based Membrane by Controlled Removal of Trapped Water Inspired by the Phase Diagram. Advanced Functional Materials, 2014, 24, 3456-3463. | 14.9 | 67 |
| 139 | Unusual High Oxygen Reduction Performance in All-Carbon Electrocatalysts. Scientific Reports, 2014, 4, 6289. | 3.3 | 67 |
| 140 | Highâ€Đensity Microporous Li ₄ Ti ₅ O ₁₂ Microbars with Superior Rate Performance for Lithiumâ€lon Batteries. Advanced Science, 2017, 4, 1600311. | 11.2 | 66 |
| 141 | Graphitic carbon nitride nanosheet-assisted preparation of N-enriched mesoporous carbon nanofibers with improved capacitive performance. Carbon, 2015, 94, 342-348. | 10.3 | 65 |
| 142 | Deactivating Defects in Graphenes with Al ₂ O ₃ Nanoclusters to Produce Longâ€Life and Highâ€Rate Sodiumâ€Ion Batteries. Advanced Energy Materials, 2019, 9, 1803078. | 19.5 | 65 |
| 143 | Bulk Storage Capacity of Hydrogen in Purified Multiwalled Carbon Nanotubes. Journal of Physical Chemistry B, 2002, 106, 963-966. | 2.6 | 64 |
| 144 | One-pot self-assembly of three-dimensional graphene macroassemblies with porous core and layered shell. Journal of Materials Chemistry, 2011, 21, 12352. | 6.7 | 64 |

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|-----|---|------|-----------|
| 145 | Hybridization of graphene oxide and carbon nanotubes at the liquid/air interface. Chemical Communications, 2012, 48, 3706-3708. | 4.1 | 64 |
| 146 | Processable and Moldable Sodiumâ€Metal Anodes. Angewandte Chemie, 2017, 129, 12083-12088. | 2.0 | 64 |
| 147 | Dual-functional hard template directed one-step formation of a hierarchical porous carbon–carbon nanotube hybrid for lithium–sulfur batteries. Chemical Communications, 2016, 52, 12143-12146. | 4.1 | 63 |
| 148 | Reduced-sized monolayer carbon nitride nanosheets for highly improved photoresponse for cell imaging and photocatalysis. Science China Materials, 2017, 60, 109-118. | 6.3 | 60 |
| 149 | 1000 Wh Lâ^'1 lithium-ion batteries enabled by crosslink-shrunk tough carbon encapsulated silicon microparticle anodes. National Science Review, 2021, 8, nwab012. | 9.5 | 60 |
| 150 | An air-stable and waterproof lithium metal anode enabled by wax composite packaging. Science Bulletin, 2019, 64, 910-917. | 9.0 | 58 |
| 151 | Reassembly of MXene Hydrogels into Flexible Films towards Compact and Ultrafast Supercapacitors. Advanced Functional Materials, 2021, 31, 2102874. | 14.9 | 57 |
| 152 | Graphene oxide hydrogel at solid/liquid interface. Chemical Communications, 2011, 47, 5771. | 4.1 | 56 |
| 153 | Graphene Emerges as a Versatile Template for Materials Preparation. Small, 2016, 12, 2674-2688. | 10.0 | 56 |
| 154 | Enhanced Roles of Carbon Architectures in High-Performance Lithium-Ion Batteries. Nano-Micro Letters, 2019, 11, 5. | 27.0 | 56 |
| 155 | Nitrate Additives Coordinated with Crown Ether Stabilize Lithium Metal Anodes in Carbonate Electrolyte. Advanced Functional Materials, 2021, 31, 2102128. | 14.9 | 56 |
| 156 | Highly Crystalline Lithium Titanium Oxide Sheets Coated with Nitrogenâ€Doped Carbon enable Highâ€Rate Lithiumâ€Ion Batteries. ChemSusChem, 2014, 7, 2567-2574. | 6.8 | 55 |
| 157 | A Composite Polymeric Carbon Nitride with In Situ Formed Isotype Heterojunctions for Highly Improved Photocatalysis under Visible Light. Small, 2017, 13, 1603182. | 10.0 | 55 |
| 158 | Engineering Graphenes from the Nano- to the Macroscale for Electrochemical Energy Storage. Electrochemical Energy Reviews, 2018, 1, 139-168. | 25.5 | 55 |
| 159 | A Protective Layer for Lithium Metal Anode: Why and How. Small Methods, 2021, 5, e2001035. | 8.6 | 55 |
| 160 | Sieving carbons promise practical anodes with extensible low-potential plateaus for sodium batteries. National Science Review, 2022, 9, . | 9.5 | 55 |
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