

# Xin-Bing Cheng

## List of Publications by Year in descending order

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123  
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| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Toward Safe Lithium Metal Anode in Rechargeable Batteries: A Review. <i>Chemical Reviews</i> , 2017, 117, 10403-10473.   | 23.0 | 4,365     |
| 2  | Review on High-Loading and High-Energy Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1700260.  | 10.2 | 1,307     |
| 3  | A Review of Solid Electrolyte Interphases on Lithium Metal Anode. <i>Advanced Science</i> , 2016, 3, 1500213.  | 5.6  | 1,306     |
| 4  | Powering Lithium-Sulfur Battery Performance by Propelling Polysulfide Redox at Sulfiphilic Hosts. <i>Nano Letters</i> , 2016, 16, 519-527.   | 4.5  | 1,294     |
| 5  | Fluoroethylene Carbonate Additives to Render Uniform Li Deposits in Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2017, 27, 1605989.   | 7.8  | 1,189     |
| 6  | Lithiophilic Sites in Doped Graphene Guide Uniform Lithium Nucleation for Dendrite-Free Lithium Metal Anodes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7764-7768.  | 7.2  | 989       |
| 7  | Dendrite-Free Lithium Deposition Induced by Uniformly Distributed Lithium Ions for Efficient Lithium Metal Batteries. <i>Advanced Materials</i> , 2016, 28, 2888-2895.   | 11.1 | 877       |
| 8  | An anion-immobilized composite electrolyte for dendrite-free lithium metal anodes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11069-11074.  | 3.3  | 710       |
| 9  | Recent Advances in Energy Chemistry between Solid-State Electrolyte and Safe Lithium-Metal Anodes. <i>CheM</i> , 2019, 5, 74-96.   | 5.8  | 610       |
| 10 | Coralloid Carbon Fiber-Based Composite Lithium Anode for Robust Lithium Metal Batteries. <i>Joule</i> , 2018, 2, 764-777.  | 11.7 | 609       |
| 11 | Highly Stable Lithium Metal Batteries Enabled by Regulating the Solvation of Lithium Ions in Nonaqueous Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5301-5305.  | 7.2  | 601       |
| 12 | Conductive Nanostructured Scaffolds Render Low Local Current Density to Inhibit Lithium Dendrite Growth. <i>Advanced Materials</i> , 2016, 28, 2155-2162.  | 11.1 | 591       |
| 13 | Nitrogen-Doped Aligned Carbon Nanotube/Graphene Sandwiches: Facile Catalytic Growth on Bifunctional Natural Catalysts and Their Applications as Scaffolds for High-Rate Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2014, 26, 6100-6105. | 11.1 | 534       |
| 14 | A Cooperative Interface for Highly Efficient Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2016, 28, 9551-9558.  | 11.1 | 514       |
| 15 | Artificial Interphases for Highly Stable Lithium Metal Anode. <i>Matter</i> , 2019, 1, 317-344.  | 5.0  | 508       |
| 16 | Nanoarchitected Graphene/CNT@Porous Carbon with Extraordinary Electrical Conductivity and Interconnected Micro/Mesopores for Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2014, 24, 2772-2781.                                 | 7.8  | 495       |
| 17 | Hierarchical Free-Standing Carbon-Nanotube Paper Electrodes with Ultrahigh Sulfur-Loading for Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2014, 24, 6105-6112.  | 7.8  | 476       |
| 18 | Implantable Solid Electrolyte Interphase in Lithium-Metal Batteries. <i>CheM</i> , 2017, 2, 258-270.   | 5.8  | 474       |

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|----|---|------|-----------|
| 19 | Artificial Softâ€“Rigid Protective Layer for Dendriteâ€“Free Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2018, 28, 1705838.   | 7.8  | 470       |
| 20 | Advanced Micro/Nanostructures for Lithium Metal Anodes. <i>Advanced Science</i> , 2017, 4, 1600445.   | 5.6  | 444       |
| 21 | Regulating the Inner Helmholtz Plane for Stable Solid Electrolyte Interphase on Lithium Metal Anodes. <i>Journal of the American Chemical Society</i> , 2019, 141, 9422-9429.   | 6.6  | 429       |
| 22 | Beyond lithium ion batteries: Higher energy density battery systems based on lithium metal anodes. <i>Energy Storage Materials</i> , 2018, 12, 161-175.   | 9.5  | 422       |
| 23 | Lithiophilicity chemistry of heteroatom-doped carbon to guide uniform lithium nucleation in lithium metal anodes. <i>Science Advances</i> , 2019, 5, eaau7728.  | 4.7  | 417       |
| 24 | Lithium Nitrate Solvation Chemistry in Carbonate Electrolyte Sustains Highâ€“Voltage Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14055-14059.   | 7.2  | 410       |
| 25 | Nanostructured energy materials for electrochemical energy conversion and storage: A review. <i>Journal of Energy Chemistry</i> , 2016, 25, 967-984.  | 7.1  | 409       |
| 26 | Dualâ€“Layered Film Protected Lithium Metal Anode to Enable Dendriteâ€“Free Lithium Deposition. <i>Advanced Materials</i> , 2018, 30, e1707629.   | 11.1 | 378       |
| 27 | Aligned carbon nanotube/sulfur composite cathodes with high sulfur content for lithiumâ€“sulfur batteries. <i>Nano Energy</i> , 2014, 4, 65-72.   | 8.2  | 366       |
| 28 | Strongly Coupled Interfaces between a Heterogeneous Carbon Host and a Sulfurâ€“Containing Guest for Highly Stable Lithiumâ€“Sulfur Batteries: Mechanistic Insight into Capacity Degradation. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400227. | 1.9  | 351       |
| 29 | An ion redistributor for dendrite-free lithium metal anodes. <i>Science Advances</i> , 2018, 4, eaat3446.   | 4.7  | 347       |
| 30 | An Armored Mixed Conductor Interphase on a Dendriteâ€“Free Lithiumâ€“Metal Anode. <i>Advanced Materials</i> , 2018, 30, e1804461.   | 11.1 | 338       |
| 31 | Nanodiamonds suppress the growth of lithium dendrites. <i>Nature Communications</i> , 2017, 8, 336.   | 5.8  | 327       |
| 32 | The gap between long lifespan Li-S coin and pouch cells: The importance of lithium metal anode protection. <i>Energy Storage Materials</i> , 2017, 6, 18-25.  | 9.5  | 325       |
| 33 | Regulating Anions in the Solvation Sheath of Lithium Ions for Stable Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2019, 4, 411-416.   | 8.8  | 323       |
| 34 | Controlling Dendrite Growth in Solid-State Electrolytes. <i>ACS Energy Letters</i> , 2020, 5, 833-843.  | 8.8  | 322       |
| 35 | Rational Integration of Polypropylene/Graphene Oxide/Nafion as Ternaryâ€“Layered Separator to Retard the Shuttle of Polysulfides for Lithiumâ€“Sulfur Batteries. <i>Small</i> , 2016, 12, 381-389.  | 5.2  | 315       |
| 36 | Dual-Phase Lithium Metal Anode Containing a Polysulfide-Induced Solid Electrolyte Interphase and Nanostructured Graphene Framework for Lithiumâ€“Sulfur Batteries. <i>ACS Nano</i> , 2015, 9, 6373-6382.  | 7.3  | 297       |

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|----|--|------|-----------|
| 37 | Janus Separator of Polypropylene-supported Cellular Graphene Framework for Sulfur Cathodes with High Utilization in Lithium-Sulfur Batteries. <i>Advanced Science</i> , 2016, 3, 1500268.                  | 5.6  | 294       |
| 38 | Rational design of two-dimensional nanomaterials for lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2020, 13, 1049-1075.  | 15.6 | 285       |
| 39 | Lithiophilic LiC <sub>6</sub> Layers on Carbon Hosts Enabling Stable Li Metal Anode in Working Batteries. <i>Advanced Materials</i> , 2019, 31, e1807131.  | 11.1 | 273       |
| 40 | Perspectives for restraining harsh lithium dendrite growth: Towards robust lithium metal anodes. <i>Energy Storage Materials</i> , 2018, 15, 148-170.  | 9.5  | 247       |
| 41 | Critical Current Density in Solid-State Lithium Metal Batteries: Mechanism, Influences, and Strategies. <i>Advanced Functional Materials</i> , 2021, 31, 2009925.  | 7.8  | 239       |
| 42 | 3D TiC/C Core/Shell Nanowire Skeleton for Dendrite-Free and Long-Life Lithium Metal Anode. <i>Advanced Energy Materials</i> , 2018, 8, 1702322.  | 10.2 | 237       |
| 43 | Li <sub>2</sub> S <sub>5</sub> -based ternary-salt electrolyte for robust lithium metal anode. <i>Energy Storage Materials</i> , 2016, 3, 77-84.   | 9.5  | 236       |
| 44 | Review-Li Metal Anode in Working Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A6058-A6072.   | 1.3  | 227       |
| 45 | Dual-Phase Single-Ion Pathway Interfaces for Robust Lithium Metal in Working Batteries. <i>Advanced Materials</i> , 2019, 31, e1808392.  | 11.1 | 224       |
| 46 | Lithium metal protection through in-situ formed solid electrolyte interphase in lithium-sulfur batteries: The role of polysulfides on lithium anode. <i>Journal of Power Sources</i> , 2016, 327, 212-220. | 4.0  | 222       |
| 47 | A Diffusion-Reaction Competition Mechanism to Tailor Lithium Deposition for Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7743-7747.                               | 7.2  | 219       |
| 48 | 3D Carbonaceous Current Collectors: The Origin of Enhanced Cycling Stability for High-Sulfur-Loading Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2016, 26, 6351-6358.                 | 7.8  | 216       |
| 49 | Sulfurized solid electrolyte interphases with a rapid Li <sup>+</sup> diffusion on dendrite-free Li metal anodes. <i>Energy Storage Materials</i> , 2018, 10, 199-205.                                     | 9.5  | 215       |
| 50 | Electronic and Ionic Channels in Working Interfaces of Lithium Metal Anodes. <i>ACS Energy Letters</i> , 2018, 3, 1564-1570.   | 8.8  | 211       |
| 51 | A perspective on sustainable energy materials for lithium batteries. <i>SusMat</i> , 2021, 1, 38-50.   | 7.8  | 208       |
| 52 | Ion-Solvent Complexes Promote Gas Evolution from Electrolytes on a Sodium Metal Anode. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 734-737.   | 7.2  | 208       |
| 53 | Advances in Interfaces between Li Metal Anode and Electrolyte. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701097.  | 1.9  | 200       |
| 54 | Columnar Lithium Metal Anodes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14207-14211.   | 7.2  | 199       |

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|----|--|------|-----------|
| 55 | Healing High-Loading Sulfur Electrodes with Unprecedented Long Cycling Life: Spatial Heterogeneity Control. <i>Journal of the American Chemical Society</i> , 2017, 139, 8458-8466.                                  | 6.6  | 198       |
| 56 | Lithiophilic Sites in Doped Graphene Guide Uniform Lithium Nucleation for Dendrite-Free Lithium Metal Anodes. <i>Angewandte Chemie</i> , 2017, 129, 7872-7876.   | 1.6  | 186       |
| 57 | The Failure of Solid Electrolyte Interphase on Li Metal Anode: Structural Uniformity or Mechanical Strength?. <i>Advanced Energy Materials</i> , 2020, 10, 1903645.  | 10.2 | 182       |
| 58 | Scaled-up fabrication of porous-graphene-modified separators for high-capacity lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2017, 7, 56-63.   | 9.5  | 172       |
| 59 | Towards stable lithium-sulfur batteries: Mechanistic insights into electrolyte decomposition on lithium metal anode. <i>Energy Storage Materials</i> , 2017, 8, 194-201.   | 9.5  | 171       |
| 60 | Dendrite-free lithium metal anodes: stable solid electrolyte interphases for high-efficiency batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7207-7209.  | 5.2  | 170       |
| 61 | Plating/Stripping Behavior of Actual Lithium Metal Anode. <i>Advanced Energy Materials</i> , 2019, 9, 1902254.   | 10.2 | 168       |
| 62 | Catalytic Self-Limited Assembly at Hard Templates: A Mesoscale Approach to Graphene Nanoshells for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2014, 8, 11280-11289.   | 7.3  | 166       |
| 63 | Dendrite-Free Nanostructured Anode: Entrapment of Lithium in a 3D Fibrous Matrix for Ultra-Stable Lithium-Sulfur Batteries. <i>Small</i> , 2014, 10, 4257-4263.  | 5.2  | 154       |
| 64 | Recent advances in understanding dendrite growth on alkali metal anodes. <i>EnergyChem</i> , 2019, 1, 100003.  | 10.1 | 146       |
| 65 | Alloy Anodes for Rechargeable Alkali-Metal Batteries: Progress and Challenge. , 2019, 1, 217-229.  |      | 135       |
| 66 | Unlocking the Failure Mechanism of Solid State Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2022, 12, 2100748.  | 10.2 | 129       |
| 67 | The dendrite growth in 3D structured lithium metal anodes: Electron or ion transfer limitation?. <i>Energy Storage Materials</i> , 2019, 23, 556-565.  | 9.5  | 126       |
| 68 | Polysulfide shuttle control: Towards a lithium-sulfur battery with superior capacity performance up to 1000 cycles by matching the sulfur/electrolyte loading. <i>Journal of Power Sources</i> , 2014, 253, 263-268. | 4.0  | 124       |
| 69 | Electrochemical Diagram of an Ultrathin Lithium Metal Anode in Pouch Cells. <i>Advanced Materials</i> , 2019, 31, e1902785.  | 11.1 | 121       |
| 70 | 3D Mesoporous Graphene: CVD Self-Assembly on Porous Oxide Templates and Applications in High-Stable Li-S Batteries. <i>Small</i> , 2015, 11, 5243-5252.  | 5.2  | 120       |
| 71 | Lithium Nitrate Solvation Chemistry in Carbonate Electrolyte Sustains High-Voltage Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2018, 130, 14251-14255.   | 1.6  | 117       |
| 72 | Highly Stable Lithium Metal Batteries Enabled by Regulating the Solvation of Lithium Ions in Nonaqueous Electrolytes. <i>Angewandte Chemie</i> , 2018, 130, 5399-5403.   | 1.6  | 116       |

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|----|--|------|-----------|
| 73 | Spatially uniform deposition of lithium metal in 3D Janus hosts. <i>Energy Storage Materials</i> , 2019, 16, 259-266.  | 9.5  | 112       |
| 74 | Hierarchical Vineâ€Treeâ€Like Carbon Nanotube Architectures: Inâ€Situ CVD Selfâ€Assembly and Their Use as Robust Scaffolds for Lithiumâ€Sulfur Batteries. <i>Advanced Materials</i> , 2014, 26, 7051-7058.                                 | 11.1 | 104       |
| 75 | Mechanism understanding for stripping electrochemistry of Li metal anode. <i>SusMat</i> , 2021, 1, 506-536.  | 7.8  | 93        |
| 76 | Three-dimensional aluminum foam/carbon nanotube scaffolds as long- and short-range electron pathways with improved sulfur loading for high energy density lithiumâ€sulfur batteries. <i>Journal of Power Sources</i> , 2014, 261, 264-270. | 4.0  | 86        |
| 77 | Improved interfacial electronic contacts powering high sulfur utilization in all-solid-state lithiumâ€sulfur batteries. <i>Energy Storage Materials</i> , 2020, 25, 436-442.   | 9.5  | 85        |
| 78 | Cathode materials based on carbon nanotubes for high-energy-density lithiumâ€sulfur batteries. <i>Carbon</i> , 2014, 75, 161-168.  | 5.4  | 84        |
| 79 | Flexible all-carbon interlinked nanoarchitectures as cathode scaffolds for high-rate lithiumâ€sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10869-10875.  | 5.2  | 83        |
| 80 | A Coaxialâ€Interweaved Hybrid Lithium Metal Anode for Longâ€Lifespan Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1901932.   | 10.2 | 73        |
| 81 | Uniform Lithium Nucleation Guided by Atomically Dispersed Lithiophilic CoN<i>x</i> Sites for Safe Lithium Metal Batteries. <i>Small Methods</i> , 2019, 3, 1800354.  | 4.6  | 70        |
| 82 | Towards Stable Lithiumâ€Sulfur Batteries with a Low Selfâ€Discharge Rate: Ion Diffusion Modulation and Anode Protection. <i>ChemSusChem</i> , 2015, 8, 2892-2901.  | 3.6  | 66        |
| 83 | Thermal safety of dendritic lithium against non-aqueous electrolyte in pouch-type lithium metal batteries. <i>Journal of Energy Chemistry</i> , 2022, 72, 158-165.   | 7.1  | 65        |
| 84 | Lithiumâ€Sulfur Batteries: Dendriteâ€Free Nanostructured Anode: Entrapment of Lithium in a 3D Fibrous Matrix for Ultraâ€Stable Lithiumâ€Sulfur Batteries ( <i>Small</i> 21/2014). <i>Small</i> , 2014, 10, 4222-4222.                      | 5.2  | 62        |
| 85 | Formation mechanism of the solid electrolyte interphase in different ester electrolytes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19664-19668.   | 5.2  | 59        |
| 86 | Columnar Lithium Metal Anodes. <i>Angewandte Chemie</i> , 2017, 129, 14395-14399.  | 1.6  | 51        |
| 87 | Slurryâ€Coated Sulfur/Sulfide Cathode with Li Metal Anode for Allâ€Solidâ€State Lithiumâ€Sulfur Pouch Cells. <i>Batteries and Supercaps</i> , 2020, 3, 596-603.  | 2.4  | 50        |
| 88 | Nitrogen-doped herringbone carbon nanofibers with large lattice spacings and abundant edges: Catalytic growth and their applications in lithium ion batteries and oxygen reduction reactions. <i>Catalysis Today</i> , 2015, 249, 244-251. | 2.2  | 48        |
| 89 | Robust growth of herringbone carbon nanofibers on layered double hydroxide derived catalysts and their applications as anodes for Li-ion batteries. <i>Carbon</i> , 2013, 62, 393-404.   | 5.4  | 46        |
| 90 | Interfacial redox behaviors of sulfide electrolytes in fast-charging all-solid-state lithium metal batteries. <i>Energy Storage Materials</i> , 2020, 31, 267-273.   | 9.5  | 45        |

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|-----|---|------|-----------|
| 91  | Lithium-Sulfur Batteries: Review on High-Loading and High-Energy Lithium-Sulfur Batteries (Adv. Energy) TjEJQq1 10.244  | 10.2 | 44        |
| 92  | Carbon materials for traffic power battery. ETransportation, 2019, 2, 100033.   | 6.8  | 37        |
| 93  | A Diffusion-Reaction Competition Mechanism to Tailor Lithium Deposition for Lithium-Metal Batteries. Angewandte Chemie, 2020, 132, 7817-7821.   | 1.6  | 37        |
| 94  | Dendrite-free sandwiched ultrathin lithium metal anode with even lithium plating and stripping behavior. Nano Research, 2019, 12, 2224-2229.  | 5.8  | 36        |
| 95  | Three-Dimensional Superlithiophilic Interphase for Dendrite-Free Lithium Metal Anodes. ACS Applied Materials & Interfaces, 2020, 12, 5767-5774.   | 4.0  | 36        |
| 96  | Ultrafine ferroferric oxide nanoparticles embedded into mesoporous carbon nanotubes for lithium ion batteries. Scientific Reports, 2015, 5, 17553.  | 1.6  | 35        |
| 97  | Ion-Solvent Complexes Promote Gas Evolution from Electrolytes on a Sodium Metal Anode. Angewandte Chemie, 2018, 130, 742-745.   | 1.6  | 35        |
| 98  | Construction of a cathode using amorphous FePO <sub>4</sub> nanoparticles for a high-power/energy-density lithium-ion battery with long-term stability. Journal of Power Sources, 2016, 324, 52-60. | 4.0  | 34        |
| 99  | Favorable Lithium Nucleation on Lithiophilic Framework Porphyrin for Dendrite-Free Lithium Metal Anodes. Research, 2019, 2019, 1-11.  | 2.8  | 33        |
| 100 | CNTs in Situ Attached to Fe <sub>2</sub> O <sub>3</sub> Submicron Spheres for Enhancing Lithium Storage Capacity. ACS Applied Materials & Interfaces, 2015, 7, 340-350.                             | 4.0  | 30        |
| 101 | Favorable Lithium Nucleation on Lithiophilic Framework Porphyrin for Dendrite-Free Lithium Metal Anodes. Research, 2019, 2019, 4608940.   | 2.8  | 29        |
| 102 | A two-dimension laminar composite protective layer for dendrite-free lithium metal anode. Journal of Energy Chemistry, 2021, 56, 391-394.   | 7.1  | 26        |
| 103 | Dual-layer vermiculite nanosheet based hybrid film to suppress dendrite growth in lithium metal batteries. Journal of Energy Chemistry, 2022, 69, 205-210.  | 7.1  | 23        |
| 104 | High sulfur-doped hard carbon anode from polystyrene with enhanced capacity and stability for potassium-ion storage. Journal of Energy Chemistry, 2022, 68, 688-698.                                | 7.1  | 22        |
| 105 | Synthesis of three-dimensional rare-earth ions doped CNTs-GO-Fe <sub>3</sub> O <sub>4</sub> hybrid structures using one-pot hydrothermal method. Journal of Alloys and Compounds, 2015, 649, 82-88. | 2.8  | 18        |
| 106 | Plating current density distribution of lithium metal anodes in pouch cells. Journal of Energy Chemistry, 2022, 69, 70-75.  | 7.1  | 15        |
| 107 | Lithium Metal Anodes: Artificial Soft-Rigid Protective Layer for Dendrite-Free Lithium Metal Anode (Adv. Funct. Mater. 8/2018). Advanced Functional Materials, 2018, 28, 1870049.                   | 7.8  | 12        |
| 108 | Lithium Metal Anodes: Dual-Layered Film Protected Lithium Metal Anode to Enable Dendrite-Free Lithium Deposition (Adv. Mater. 25/2018). Advanced Materials, 2018, 30, 1870181.                      | 11.1 | 11        |

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|-----|--|------|-----------|
| 109 | Electrodes: Hierarchical Free-Standing Carbon Nanotube Paper Electrodes with Ultrahigh Sulfur Loading for Lithium-Sulfur Batteries (Adv. Funct. Mater. 39/2014). Advanced Functional Materials, 2014, 24, 6244-6244.   | 7.8  | 9         |
| 110 | Carbon: Nanoarchitected Graphene/CNT@Porous Carbon with Extraordinary Electrical Conductivity and Interconnected Micro/Mesopores for Lithium-Sulfur Batteries (Adv. Funct. Mater.)   | 11.1 | 10        |
| 111 | Lithium-Sulfur Batteries: Nitrogen-Doped Aligned Carbon Nanotube/Graphene Sandwiches: Facile Catalytic Growth on Bifunctional Natural Catalysts and Their Applications as Scaffolds for High-Rate Lithium-Sulfur Batteries (Adv. Mater. 35/2014). Advanced Materials, 2014, 26, 6199-6199. | 11.1 | 4         |
| 112 | Innentitelbild: Lithiophilic Sites in Doped Graphene Guide Uniform Lithium Nucleation for Dendrite-Free Lithium Metal Anodes (Angew. Chem. 27/2017). Angewandte Chemie, 2017, 129, 7790-7790.  | 1.6  | 4         |
| 113 | Lithium-Sulfur Batteries: Hierarchical Vine-Tree-Like Carbon Nanotube Architectures: In-Situ CVD Self-Assembly and Their Use as Robust Scaffolds for Lithium-Sulfur Batteries (Adv. Mater. 41/2014). Advanced Materials, 2014, 26, 6986-6986.  | 11.1 | 3         |
| 114 | Lithium-Sulfur Batteries: A Cooperative Interface for Highly Efficient Lithium-Sulfur Batteries (Adv.)   | 11.1 | 3         |
| 115 | Titelbild: Highly Stable Lithium Metal Batteries Enabled by Regulating the Solvation of Lithium Ions in Nonaqueous Electrolytes (Angew. Chem. 19/2018). Angewandte Chemie, 2018, 130, 5275-5275.   | 1.6  | 2         |
| 116 | Solid Electrolyte Interphase: The Failure of Solid Electrolyte Interphase on Li Metal Anode: Structural Uniformity or Mechanical Strength? (Adv. Energy Mater. 10/2020). Advanced Energy Materials, 2020, 10, 2070045.   | 10.2 | 2         |
| 117 | Lithium Anodes: Conductive Nanostructured Scaffolds Render Low Local Current Density to Inhibit Lithium Dendrite Growth (Adv. Mater. 11/2016). Advanced Materials, 2016, 28, 2090-2090.  | 11.1 | 1         |
| 118 | Lithium Metal Anodes: Dual-Phase Single-Ion Pathway Interfaces for Robust Lithium Metal in Working Batteries (Adv. Mater. 19/2019). Advanced Materials, 2019, 31, 1970135.   | 11.1 | 1         |
| 119 | Batteries: Strongly Coupled Interfaces between a Heterogeneous Carbon Host and a Sulfur-Containing Guest for Highly Stable Lithium-Sulfur Batteries: Mechanistic Insight into Capacity Degradation (Adv.)  | 11.1 | 1         |
| 120 | Titelbild: Columnar Lithium Metal Anodes (Angew. Chem. 45/2017). Angewandte Chemie, 2017, 129, 14508-14508.  | 1.6  | 0         |
| 121 | Innentitelbild: Ion-Solvent Complexes Promote Gas Evolution from Electrolytes on a Sodium Metal Anode (Angew. Chem. 3/2018). Angewandte Chemie, 2018, 130, 606-606.  | 1.6  | 0         |
| 122 | Titelbild: Lithium Nitrate Solvation Chemistry in Carbonate Electrolyte Sustains High-Voltage Lithium Metal Batteries (Angew. Chem. 43/2018). Angewandte Chemie, 2018, 130, 14488-14488.   | 1.6  | 0         |
| 123 | Innentitelbild: A Diffusion-Reaction Competition Mechanism to Tailor Lithium Deposition for Lithium Metal Batteries (Angew. Chem. 20/2020). Angewandte Chemie, 2020, 132, 8041-8041.   | 1.6  | 0         |