

Xingcheng Xiao

List of Publications by Year in descending order

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119
papers

12,193
citations

26567

56
h-index

24915

109
g-index

120
all docs

120
docs citations

120
times ranked

14843
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Silicon-Based Nanomaterials for Lithium-Ion Batteries: A Review. <i>Advanced Energy Materials</i> , 2014, 4, 1300882. | 10.2 | 1,250 |
| 2 | A review of graphene and graphene oxide sponge: material synthesis and applications to energy and the environment. <i>Energy and Environmental Science</i> , 2014, 7, 1564. | 15.6 | 996 |
| 3 | Silicon-Based Anodes for Lithium-Ion Batteries: From Fundamentals to Practical Applications. <i>Small</i> , 2018, 14, 1702737. | 5.2 | 650 |
| 4 | Polydopamine-Coated, Nitrogen-Doped, Hollow Carbon-Sulfur Double-Layered Core-Shell Structure for Improving Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2014, 14, 5250-5256. | 4.5 | 361 |
| 5 | Multifunctional TiO ₂ -C/MnO ₂ Core-Double-Shell Nanowire Arrays as High-Performance 3D Electrodes for Lithium Ion Batteries. <i>Nano Letters</i> , 2013, 13, 5467-5473. | 4.5 | 338 |
| 6 | Toward an Ideal Polymer Binder Design for High-Capacity Battery Anodes. <i>Journal of the American Chemical Society</i> , 2013, 135, 12048-12056. | 6.6 | 332 |
| 7 | Synergetic Effects of Inorganic Components in Solid Electrolyte Interphase on High Cycle Efficiency of Lithium Ion Batteries. <i>Nano Letters</i> , 2016, 16, 2011-2016. | 4.5 | 320 |
| 8 | Graphene-Based Nanocomposites for Energy Storage. <i>Advanced Energy Materials</i> , 2016, 6, 1502159. | 10.2 | 306 |
| 9 | Tailoring Pore Size of Nitrogen-Doped Hollow Carbon Nanospheres for Confining Sulfur in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1401752. | 10.2 | 273 |
| 10 | Free-Standing Layer-By-Layer Hybrid Thin Film of Graphene-MnO ₂ Nanotube as Anode for Lithium Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1855-1860. | 2.1 | 271 |
| 11 | In Situ TEM Investigation of Congruent Phase Transition and Structural Evolution of Nanostructured Silicon/Carbon Anode for Lithium Ion Batteries. <i>Nano Letters</i> , 2012, 12, 1624-1632. | 4.5 | 256 |
| 12 | Revealing Triple-Shape Memory Effect by Polymer Bilayers. <i>Macromolecular Rapid Communications</i> , 2009, 30, 1823-1827. | 2.0 | 234 |
| 13 | Ultrathin Multifunctional Oxide Coatings for Lithium Ion Batteries. <i>Advanced Materials</i> , 2011, 23, 3911-3915. | 11.1 | 234 |
| 14 | Improved cycling stability of silicon thin film electrodes through patterning for high energy density lithium batteries. <i>Journal of Power Sources</i> , 2011, 196, 1409-1416. | 4.0 | 207 |
| 15 | Toward Practical Application of Functional Conductive Polymer Binder for a High-Energy Lithium-Ion Battery Design. <i>Nano Letters</i> , 2014, 14, 6704-6710. | 4.5 | 172 |
| 16 | Sulfur covalently bonded graphene with large capacity and high rate for high-performance sodium-ion batteries anodes. <i>Nano Energy</i> , 2015, 15, 746-754. | 8.2 | 164 |
| 17 | Evidence of covalent synergy in silicon-sulfur-graphene yielding highly efficient and long-life lithium-ion batteries. <i>Nature Communications</i> , 2015, 6, 8597. | 5.8 | 163 |
| 18 | Materials science and fabrication processes for a new MEMS technology based on ultrananocrystalline diamond thin films. <i>Journal of Physics Condensed Matter</i> , 2004, 16, R539-R552. | 0.7 | 162 |

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|----|--|------|-----------|
| 19 | Self-healable graphene polymer composites. <i>Journal of Materials Chemistry</i> , 2010, 20, 3508. | 6.7 | 154 |
| 20 | Regulated Breathing Effect of Silicon Negative Electrode for Dramatically Enhanced Performance of Li-ion Battery. <i>Advanced Functional Materials</i> , 2015, 25, 1426-1433. | 7.8 | 149 |
| 21 | Implementing an in-situ carbon network in Si/reduced graphene oxide for high performance lithium-ion battery anodes. <i>Nano Energy</i> , 2016, 19, 187-197. | 8.2 | 148 |
| 22 | Self-Peeling Reversible Dry Adhesive System. <i>Chemistry of Materials</i> , 2008, 20, 2866-2868. | 3.2 | 143 |
| 23 | Design of porous Si/graphite electrodes with long cycle stability and controlled swelling. <i>Energy and Environmental Science</i> , 2017, 10, 1427-1434. | 15.6 | 140 |
| 24 | Thermal transport and grain boundary conductance in ultrananocrystalline diamond thin films. <i>Journal of Applied Physics</i> , 2006, 99, 114301. | 1.1 | 139 |
| 25 | In vitro and in vivo evaluation of ultrananocrystalline diamond for coating of implantable retinal microchips. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006, 77B, 273-281. | 1.6 | 131 |
| 26 | Stress Mitigation during the Lithiation of Patterned Amorphous Si Islands. <i>Journal of the Electrochemical Society</i> , 2011, 159, A38-A43. | 1.3 | 119 |
| 27 | Potentiostatic Intermittent Titration Technique for Electrodes Governed by Diffusion and Interfacial Reaction. <i>Journal of Physical Chemistry C</i> , 2012, 116, 1472-1478. | 1.5 | 119 |
| 28 | Reversible dry micro-fibrillar adhesives with thermally controllable adhesion. <i>Soft Matter</i> , 2009, 5, 3689. | 1.2 | 116 |
| 29 | Encoding Localized Strain History Through Wrinkle Based Structural Colors. <i>Advanced Materials</i> , 2010, 22, 4390-4394. | 11.1 | 116 |
| 30 | Engineered Si Electrode Nanoarchitecture: A Scalable Postfabrication Treatment for the Production of Next-Generation Li-Ion Batteries. <i>Nano Letters</i> , 2014, 14, 277-283. | 4.5 | 116 |
| 31 | In Situ and Operando Investigations of Failure Mechanisms of the Solid Electrolyte Interphase on Silicon Electrodes. <i>ACS Energy Letters</i> , 2016, 1, 689-697. | 8.8 | 116 |
| 32 | Dual phase Li ₄ Ti ₅ O ₁₂ -TiO ₂ nanowire arrays as integrated anodes for high-rate lithium-ion batteries. <i>Nano Energy</i> , 2014, 9, 383-391. | 8.2 | 114 |
| 33 | In Situ Atomic Force Microscopy Study of Initial Solid Electrolyte Interphase Formation on Silicon Electrodes for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6672-6686. | 4.0 | 113 |
| 34 | Vertically aligned graphene electrode for lithium ion battery with high rate capability. <i>Electrochemistry Communications</i> , 2011, 13, 209-212. | 2.3 | 112 |
| 35 | Thickness effects on the lithiation of amorphous silicon thin films. <i>Scripta Materialia</i> , 2011, 64, 307-310. | 2.6 | 106 |
| 36 | Carbon-Coated Silicon Nanowires on Carbon Fabric as Self-Supported Electrodes for Flexible Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9551-9558. | 4.0 | 101 |

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|----|---|------|-----------|
| 37 | Stress development due to surface processes in graphite electrodes for Li-ion batteries: A first report. <i>Electrochimica Acta</i> , 2012, 66, 28-37. | 2.6 | 100 |
| 38 | Method to deduce the critical size for interfacial delamination of patterned electrode structures and application to lithiation of thin-film silicon islands. <i>Journal of Power Sources</i> , 2012, 206, 357-366. | 4.0 | 98 |
| 39 | Reduced Graphene Oxide/Tin ⁴⁺ Antimony Nanocomposites as Anode Materials for Advanced Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24895-24901. | 4.0 | 89 |
| 40 | Mn-Doped TiO ₂ Nanosheet-Based Spheres as Anode Materials for Lithium-Ion Batteries with High Performance at Elevated Temperatures. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7292-7300. | 4.0 | 87 |
| 41 | Control and Optimization of the Electrochemical and Mechanical Properties of the Solid Electrolyte Interphase on Silicon Electrodes in Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1502302. | 10.2 | 86 |
| 42 | Atomic Layered Coating Enabling Ultrafast Surface Kinetics at Silicon Electrodes in Lithium Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3387-3391. | 2.1 | 84 |
| 43 | Atomic layer coating to mitigate capacity fading associated with manganese dissolution in lithium ion batteries. <i>Electrochemistry Communications</i> , 2013, 32, 31-34. | 2.3 | 79 |
| 44 | Thin film graphite electrodes with low stress generation during Li-intercalation. <i>Carbon</i> , 2011, 49, 2742-2749. | 5.4 | 78 |
| 45 | Li Segregation Induces Structure and Strength Changes at the Amorphous Si/Cu Interface. <i>Nano Letters</i> , 2013, 13, 4759-4768. | 4.5 | 75 |
| 46 | Toward High Cycle Efficiency of Silicon-Based Negative Electrodes by Designing the Solid Electrolyte Interphase. <i>Advanced Energy Materials</i> , 2015, 5, 1401398. | 10.2 | 72 |
| 47 | Sn/SnO ₂ embedded in mesoporous carbon nanocomposites as negative electrode for lithium ion batteries. <i>Electrochimica Acta</i> , 2013, 87, 844-852. | 2.6 | 70 |
| 48 | Failure progression in the solid electrolyte interphase (SEI) on silicon electrodes. <i>Nano Energy</i> , 2020, 68, 104257. | 8.2 | 70 |
| 49 | Greater osteoblast functions on multiwalled carbon nanotubes grown from anodized nanotubular titanium for orthopedic applications. <i>Nanotechnology</i> , 2007, 18, 365102. | 1.3 | 69 |
| 50 | Applying functionalized carbon nanotubes to enhance electrochemical performances of tin oxide composite electrodes for Li-ion battery. <i>Journal of Power Sources</i> , 2012, 212, 66-72. | 4.0 | 67 |
| 51 | Hierarchical Li ₄ Ti ₅ O ₁₂ -TiO ₂ composite microsphere consisting of nanocrystals for high power Li-ion batteries. <i>Electrochimica Acta</i> , 2013, 108, 104-111. | 2.6 | 66 |
| 52 | Graphene wrapped silicon nanocomposites for enhanced electrochemical performance in lithium ion batteries. <i>Electrochimica Acta</i> , 2014, 130, 127-134. | 2.6 | 66 |
| 53 | A Systematic Investigation of Polymer Binder Flexibility on the Electrode Performance of Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 17111-17118. | 4.0 | 65 |
| 54 | Diffusion Mediated Lithiation Stresses in Si Thin Film Electrodes. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1520-A1527. | 1.3 | 64 |

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|----|--|------|-----------|
| 55 | Unravelling the Impact of Reaction Paths on Mechanical Degradation of Intercalation Cathodes for Lithium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2015, 137, 13732-13735. | 6.6 | 61 |
| 56 | Unraveling manganese dissolution/deposition mechanisms on the negative electrode in lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10398. | 1.3 | 59 |
| 57 | Extended lithium titanate cycling potential window with near zero capacity loss. <i>Electrochemistry Communications</i> , 2011, 13, 796-799. | 2.3 | 58 |
| 58 | Effects of stress on lithium transport in amorphous silicon electrodes for lithium-ion batteries. <i>Nano Energy</i> , 2015, 13, 192-199. | 8.2 | 58 |
| 59 | Adhesion analysis and dry machining performance of CVD diamond coatings deposited on surface modified WC-Co turning inserts. <i>Journal of Materials Processing Technology</i> , 2012, 212, 523-533. | 3.1 | 57 |
| 60 | Composites of MnO ₂ nanocrystals and partially graphitized hierarchically porous carbon spheres with improved rate capability for high-performance supercapacitors. <i>Carbon</i> , 2015, 93, 258-265. | 5.4 | 56 |
| 61 | Electrochemical and interfacial behavior of all solid state batteries using Li ₁₀ SnP ₂ S ₁₂ solid electrolyte. <i>Journal of Power Sources</i> , 2018, 396, 824-830. | 4.0 | 54 |
| 62 | Potentiostatic intermittent titration technique (PITT) for spherical particles with finite interfacial kinetics. <i>Electrochimica Acta</i> , 2012, 75, 56-61. | 2.6 | 53 |
| 63 | Engineering of Graphene Layer Orientation to Attain High Rate Capability and Anisotropic Properties in Li-Ion Battery Electrodes. <i>Advanced Functional Materials</i> , 2013, 23, 2397-2404. | 7.8 | 53 |
| 64 | Design of Nanostructured Heterogeneous Solid Ionic Coatings through a Multiscale Defect Model. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5687-5693. | 4.0 | 53 |
| 65 | Fast lithium-ion storage of Nb ₂ O ₅ nanocrystals in situ grown on carbon nanotubes for high-performance asymmetric supercapacitors. <i>RSC Advances</i> , 2015, 5, 41179-41185. | 1.7 | 51 |
| 66 | Building sponge-like robust architectures of CNT-graphene-Si composites with enhanced rate and cycling performance for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3962-3967. | 5.2 | 51 |
| 67 | Mechanical Property Evolution of Silicon Composite Electrodes Studied by Environmental Nanoindentation. <i>Advanced Energy Materials</i> , 2018, 8, 1702578. | 10.2 | 51 |
| 68 | Controlling water contact angle on carbon surfaces from 5° to 167°. <i>Carbon</i> , 2006, 44, 3116-3120. | 5.4 | 50 |
| 69 | Asymmetric Rate Behavior of Si Anodes for Lithium-Ion Batteries: Ultrafast Delithiation versus Sluggish Lithiation at High Current Densities. <i>Advanced Energy Materials</i> , 2015, 5, 1401627. | 10.2 | 50 |
| 70 | Investigation of the Reasons for Capacity Fading in Li-Ion Battery Cells. <i>Journal of the Electrochemical Society</i> , 2014, 161, A1672-A1680. | 1.3 | 49 |
| 71 | Subeutectic Growth of Single-Crystal Silicon Nanowires Grown on and Wrapped with Graphene Nanosheets: High-Performance Anode Material for Lithium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13757-13764. | 4.0 | 45 |
| 72 | Self-generated concentration and modulus gradient coating design to protect Si nano-wire electrodes during lithiation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3706-3715. | 1.3 | 42 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Viscoelastic Behavior and Force Nature of Thermo-Reversible Epoxy Dry Adhesives. <i>Macromolecular Rapid Communications</i> , 2010, 31, 295-299. | 2.0 | 41 |
| 74 | Experimental and Theoretical Characterization of Electrode Materials that Undergo Large Volume Changes and Application to the Lithium-Silicon System. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5341-5349. | 1.5 | 39 |
| 75 | Coating thickness and interlayer effects on CVD-diamond film adhesion to cobalt-cemented tungsten carbides. <i>Surface and Coatings Technology</i> , 2013, 215, 272-279. | 2.2 | 37 |
| 76 | Stress evolution in lithium metal electrodes. <i>Energy Storage Materials</i> , 2020, 24, 281-290. | 9.5 | 37 |
| 77 | Decoration of Graphitic Surfaces with Sn Nanoparticles through Surface Functionalization Using Diazonium Chemistry. <i>Langmuir</i> , 2012, 28, 13042-13050. | 1.6 | 35 |
| 78 | Multifunctional Lithium-Ion-Exchanged Zeolite-Coated Separator for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018, 1, 7237-7243. | 2.5 | 35 |
| 79 | Internal Microstructural Changes and Stress Evolution in Silicon Nanoparticle Based Composite Electrodes. <i>Journal of the Electrochemical Society</i> , 2017, 164, A3750-A3765. | 1.3 | 34 |
| 80 | Thermodynamic Model for Substitutional Materials: Application to Lithiated Graphite, Spinel Manganese Oxide, Iron Phosphate, and Layered Nickel-Manganese-Cobalt Oxide. <i>Journal of the Electrochemical Society</i> , 2017, 164, E3243-E3253. | 1.3 | 33 |
| 81 | Condensed water on superhydrophobic carbon films. <i>Journal of Materials Research</i> , 2008, 23, 2174-2178. | 1.2 | 32 |
| 82 | The failure mechanism of chromium as the interlayer to enhance the adhesion of nanocrystalline diamond coatings on cemented carbide. <i>Diamond and Related Materials</i> , 2009, 18, 1114-1117. | 1.8 | 32 |
| 83 | Vanadium Pentoxide Nanorods Anchored to and Wrapped with Graphene Nanosheets for High-Power Asymmetric Supercapacitors. <i>ChemElectroChem</i> , 2015, 2, 1264-1269. | 1.7 | 31 |
| 84 | Strain-Induced Lithium Losses in the Solid Electrolyte Interphase on Silicon Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28406-28417. | 4.0 | 31 |
| 85 | Dielectric properties of hydrogen-incorporated chemical vapor deposited diamond thin films. <i>Journal of Applied Physics</i> , 2007, 102, . | 1.1 | 30 |
| 86 | Tailoring nanocrystalline diamond coated on titanium for osteoblast adhesion. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 95A, 129-136. | 2.1 | 30 |
| 87 | Cross-linked aluminum dioxybenzene coating for stabilization of silicon electrodes. <i>Nano Energy</i> , 2016, 22, 202-210. | 8.2 | 30 |
| 88 | A Bottom-Up Formation Mechanism of Solid Electrolyte Interphase Revealed by Isotope-Assisted Time-of-Flight Secondary Ion Mass Spectrometry. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5508-5514. | 2.1 | 29 |
| 89 | Micron-sized secondary Si/C composite with in situ crosslinked polymeric binder for high-energy-density lithium-ion battery anode. <i>Electrochimica Acta</i> , 2019, 309, 157-165. | 2.6 | 29 |
| 90 | Self-Supported Single Crystalline $\text{H}_{2}\text{Ti}_{8}\text{O}_{17}$ Nanoarrays as Integrated Three-Dimensional Anodes for Lithium-Ion Microbatteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 568-574. | 4.0 | 26 |

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|-----|---|------|-----------|
| 91 | Highly durable 3D conductive matrixed silicon anode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2018, 407, 84-91. | 4.0 | 24 |
| 92 | An Investigation of Chemo-Mechanical Phenomena and Li Metal Penetration in All-Solid-State Lithium Metal Batteries Using In Situ Optical Curvature Measurements. <i>Advanced Energy Materials</i> , 2022, 12, . | 10.2 | 24 |
| 93 | An approach to characterize and clarify hysteresis phenomena of lithium-silicon electrodes. <i>Journal of Applied Physics</i> , 2017, 122, . | 1.1 | 23 |
| 94 | Application of WSe_2 Nanoparticles Synthesized by Chemical Vapor Condensation Method for Li-Ion Battery Anodes. <i>Zeitschrift Fur Physikalische Chemie</i> , 2015, 229, 1429-1437. | 1.4 | 22 |
| 95 | Mechanical behavior of electroplated mossy lithium at room temperature studied by flat punch indentation. <i>Applied Physics Letters</i> , 2019, 115, . | 1.5 | 22 |
| 96 | Hot-Chemistry Structural Phase Transformation in Single-Crystal Chalcogenides for Long-Life Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20603-20612. | 4.0 | 21 |
| 97 | The Bonding Nature and Adhesion of Polyacrylic Acid Coating on Li-Metal for Li Dendrite Prevention. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51007-51015. | 4.0 | 21 |
| 98 | Dendrite-free Lithium Based on Lessons Learned from Lithium and Magnesium Electrodeposition Morphology Simulations. <i>Cell Reports Physical Science</i> , 2021, 2, 100294. | 2.8 | 19 |
| 99 | Phase-separated silicon-tin nanocomposites for high capacity negative electrodes in lithium ion batteries. <i>Journal of Power Sources</i> , 2012, 214, 258-265. | 4.0 | 18 |
| 100 | A non-destructive method for measuring the mechanical properties of ultrathin films prepared by atomic layer deposition. <i>Applied Physics Letters</i> , 2014, 105, . | 1.5 | 16 |
| 101 | Pop-Up Delamination of Electrodes in Solid-State Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A618-A625. | 1.3 | 12 |
| 102 | Synthesis of Nanoporous $Li_4Ti_5O_{12}$ - TiO_2 Composites for High-Performance Lithium-Ion Battery Anodes. <i>ChemElectroChem</i> , 2016, 3, 1951-1959. | 1.7 | 11 |
| 103 | Structure and mechanical properties of electroplated mossy lithium: Effects of current density and electrolyte. <i>Energy Storage Materials</i> , 2020, 26, 276-282. | 9.5 | 11 |
| 104 | Material transfer during machining of aluminum alloys with polycrystalline diamond cutting tools. <i>Journal of Materials Processing Technology</i> , 2009, 209, 5760-5765. | 3.1 | 10 |
| 105 | Fabrication and Characterization of Lithium-Silicon Thick-Film Electrodes for High-Energy-Density Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, A156-A167. | 1.3 | 10 |
| 106 | Laser Joining of Carbon-Fiber-Reinforced Polymer and Metal with High-Strength and Corrosion-Resistant Bonds. <i>Procedia Manufacturing</i> , 2019, 34, 42-48. | 1.9 | 9 |
| 107 | The importance of covalent coupling in the synthesis of high performance composite anodes for lithium ion batteries. <i>RSC Advances</i> , 2016, 6, 45519-45524. | 1.7 | 8 |
| 108 | Mechanical and Electronic Stabilization of Solid Electrolyte Interphase with Sulfite Additive for Lithium Metal Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3201-A3206. | 1.3 | 8 |

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|-----|---|-----|-----------|
| 109 | Electron paramagnetic resonance study of hydrogen-incorporated ultrananocrystalline diamond thin films. <i>Journal of Applied Physics</i> , 2007, 101, 123924. | 1.1 | 6 |
| 110 | Novel Ultrananocrystalline Diamond Probes for High-Resolution Low-Wear Nanolithographic Techniques. <i>Small</i> , 2005, 1, 912-912. | 5.2 | 4 |
| 111 | Enhanced Rate Capability of Oxide Coated Lithium Titanate within Extended Voltage Ranges. <i>Frontiers in Energy Research</i> , 2015, 3, . | 1.2 | 4 |
| 112 | Surface Treatments for Controlling Solid Electrolyte Interphase Formation on Sn/Graphene Composite Anodes for High-Performance Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16682-16692. | 1.5 | 4 |
| 113 | Conformal formation of Carbon-TiOX matrix encapsulating silicon for high-performance lithium-ion battery anode. <i>Journal of Power Sources</i> , 2018, 399, 98-104. | 4.0 | 4 |
| 114 | Reinforced Composite Film on Lithium Metal Electrodes through Aryl Chlorosilane Treatment. <i>Langmuir</i> , 2019, 35, 16459-16465. | 1.6 | 3 |
| 115 | Tuning Solid Electrolyte Interphase Layer Properties through the Integration of Conversion Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44204-44213. | 4.0 | 3 |
| 116 | Lithiated Zeolite as Additives for Low-Cost Positive Electrode. <i>Advanced Materials Technologies</i> , 2021, 6, 2100615. | 3.0 | 3 |
| 117 | A Power-Law Decrease in Interfacial Resistance Between $\text{Li}_{7-x}\text{La}_3\text{Zr}_2\text{O}_{12}$ and Lithium Metal After Removing Stack Pressure. <i>Journal of the Electrochemical Society</i> , 2021, 168, 100522. | 1.3 | 3 |
| 118 | Observation of the surface layer of lithium metal using <i>in situ</i> spectroscopy. <i>Applied Physics Letters</i> , 2022, 120, . | 1.5 | 2 |
| 119 | Vanadium Pentoxide Nanorods Anchored to and Wrapped with Graphene Nanosheets for High-Power Asymmetric Supercapacitors. <i>ChemElectroChem</i> , 2015, 2, 1210-1210. | 1.7 | 0 |