

Daxian Cao

List of Publications by Year in descending order

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44
papers

2,992
citations

185998

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3913
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Sulfide-Based Solid-State Electrolytes: Synthesis, Stability, and Potential for All-Solid-State Batteries. <i>Advanced Materials</i> , 2019, 31, e1901131. | 11.1 | 365 |
| 2 | Lithium Dendrite in All-Solid-State Batteries: Growth Mechanisms, Suppression Strategies, and Characterizations. <i>Matter</i> , 2020, 3, 57-94. | 5.0 | 334 |
| 3 | 3D Printed High-Performance Lithium Metal Microbatteries Enabled by Nanocellulose. <i>Advanced Materials</i> , 2019, 31, e1807313. | 11.1 | 226 |
| 4 | Metallic MoS ₂ for High Performance Energy Storage and Energy Conversion. <i>Small</i> , 2018, 14, e1800640. | 5.2 | 218 |
| 5 | Bacterial-Derived, Compressible, and Hierarchical Porous Carbon for High-Performance Potassium-Ion Batteries. <i>Nano Letters</i> , 2018, 18, 7407-7413. | 4.5 | 192 |
| 6 | Stable Metal Anode enabled by Porous Lithium Foam with Superior Ion Accessibility. <i>Advanced Materials</i> , 2018, 30, e1802156. | 11.1 | 115 |
| 7 | Stable Thiophosphate-Based All-Solid-State Lithium Batteries through Conformally Interfacial Nanocoating. <i>Nano Letters</i> , 2020, 20, 1483-1490. | 4.5 | 112 |
| 8 | Honeycomb-like carbon nanoflakes as a host for SnO ₂ nanoparticles allowing enhanced lithium storage performance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6817-6824. | 5.2 | 101 |
| 9 | Photocatalytic Rejuvenation Enabled Self-Sanitizing, Reusable, and Biodegradable Masks against COVID-19. <i>ACS Nano</i> , 2021, 15, 11992-12005. | 7.3 | 98 |
| 10 | Solid-State Batteries: Sulfide-Based Solid-State Electrolytes: Synthesis, Stability, and Potential for All-Solid-State Batteries (<i>Adv. Mater.</i> 44/2019). <i>Advanced Materials</i> , 2019, 31, 1970311. | 11.1 | 75 |
| 11 | Synthesis of SnO ₂ versus Sn crystals within N-doped porous carbon nanofibers via electrospinning towards high-performance lithium ion batteries. <i>Nanoscale</i> , 2016, 8, 7595-7603. | 2.8 | 69 |
| 12 | Processing Strategies to Improve Cell-Level Energy Density of Metal Sulfide Electrolyte-Based All-Solid-State Li Metal Batteries and Beyond. <i>ACS Energy Letters</i> , 2020, 5, 3468-3489. | 8.8 | 68 |
| 13 | Long-Cycling Sulfide-Based All-Solid-State Batteries Enabled by Electrochemo-Mechanically Stable Electrodes. <i>Advanced Materials</i> , 2022, 34, e2200401. | 11.1 | 62 |
| 14 | Additive Manufacturing of 3D Aerogels and Porous Scaffolds: A Review. <i>Advanced Functional Materials</i> , 2021, 31, 2103410. | 7.8 | 61 |
| 15 | Synthesis of NiS/carbon composites as anodes for high-performance sodium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 3047-3055. | 1.2 | 55 |
| 16 | Stable Li Metal Anode Enabled by Space Confinement and Uniform Curvature through Lithiophilic Nanotube Arrays. <i>Advanced Energy Materials</i> , 2020, 10, 1902819. | 10.2 | 55 |
| 17 | Nanocarved MoS ₂ MoO ₂ Hybrids Fabricated Using <i>in Situ</i> Grown MoS ₂ as Nanomasks. <i>ACS Nano</i> , 2016, 10, 9509-9515. | 7.3 | 52 |
| 18 | Amphipathic Binder Integrating Ultrathin and Highly Ion-Conductive Sulfide Membrane for Cell-Level High-Energy Density All-Solid-State Batteries. <i>Advanced Materials</i> , 2021, 33, e2105505. | 11.1 | 52 |

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|----|--|------|-----------|
| 19 | Mass Transfer and Reaction Kinetic Enhanced Electrode for High-Performance Aqueous Flow Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1903192. | 7.8 | 50 |
| 20 | Epitaxial Growth of Urchin-Like CoSe_2 Nanorods from Electrospun Co-Embedded Porous Carbon Nanofibers and Their Superior Lithium Storage Properties. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1700185. | 1.2 | 49 |
| 21 | Bipolar stackings high voltage and high cell level energy density sulfide based all-solid-state batteries. <i>Energy Storage Materials</i> , 2022, 48, 458-465. | 9.5 | 46 |
| 22 | Plasmonic-Enhanced Cholesteric Films: Coassembling Anisotropic Gold Nanorods with Cellulose Nanocrystals. <i>Advanced Optical Materials</i> , 2019, 7, 1801816. | 3.6 | 44 |
| 23 | Versatile zero- to three-dimensional carbon for electrochemical energy storage. , 2021, 3, 895-915. | | 41 |
| 24 | A Hierarchical Phosphorus Nanobarbed Nanowire Hybrid: Its Structure and Electrochemical Properties. <i>Nano Letters</i> , 2017, 17, 3376-3382. | 4.5 | 39 |
| 25 | Lignin-Derived Holey, Layered, and Thermally Conductive 3D Scaffold for Lithium Dendrite Suppression. <i>Small Methods</i> , 2019, 3, 1800539. | 4.6 | 39 |
| 26 | Stable and Highly Ion-Selective Membrane Made from Cellulose Nanocrystals for Aqueous Redox Flow Batteries. <i>Nano Letters</i> , 2019, 19, 8979-8989. | 4.5 | 38 |
| 27 | Self-Stabilized $\text{LiNi}_{0.8}\text{Mn}_{0.1}\text{Co}_{0.1}\text{O}_2$ in thiophosphate-based all-solid-state batteries through extra LiOH . <i>Energy Storage Materials</i> , 2021, 41, 505-514. | 9.5 | 36 |
| 28 | High Phase Change Enthalpy Enabled by Nanocellulose Enhanced Shape Stable Boron Nitride Aerogel. <i>ACS Applied Polymer Materials</i> , 2020, 2, 3001-3009. | 2.0 | 31 |
| 29 | Stable lithium-sulfur full cells enabled by dual functional and interconnected mesocarbon arrays. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3289-3297. | 5.2 | 29 |
| 30 | Dual-Function, Tunable, Nitrogen-Doped Carbon for High-Performance Li Metal-Sulfur Full Cell. <i>Small</i> , 2019, 15, e1804609. | 5.2 | 28 |
| 31 | Operando EDXRD Study of All-Solid-State Lithium Batteries Coupling Thioantimonate Superionic Conductors with Metal Sulfide. <i>Advanced Energy Materials</i> , 2021, 11, 2002861. | 10.2 | 25 |
| 32 | Pyrolytic synthesis of MoO_3 nanoplates within foam-like carbon nanoflakes for enhanced lithium ion storage. <i>Journal of Colloid and Interface Science</i> , 2018, 514, 686-693. | 5.0 | 24 |
| 33 | Binding SnO_2 nanoparticles onto carbon nanotubes with assistance of amorphous MoO_3 towards enhanced lithium storage performance. <i>Journal of Colloid and Interface Science</i> , 2017, 504, 230-237. | 5.0 | 22 |
| 34 | Compressible Ionized Natural 3D Interconnected Loofah Membrane for Salinity Gradient Power Generation. <i>Small</i> , 2022, 18, e2104320. | 5.2 | 22 |
| 35 | Ice-Templated Anisotropic Flame-Resistant Boron Nitride Aerogels Enhanced through Surface Modification and Cellulose Nanofibrils. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1358-1367. | 2.0 | 20 |
| 36 | Functionalized Well-Aligned Channels Derived from Wood as a Convection-Enhanced Electrode for Aqueous Flow Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 6249-6257. | 2.5 | 19 |

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|----|---|-----|-----------|
| 37 | Abundant Organic Dye as an Anolyte for Aqueous Flow Battery with Multielectron Transfer. ACS Applied Energy Materials, 2019, 2, 7425-7437. | 2.5 | 18 |
| 38 | Understanding Phase Stability of Metallic 1T-MoS ₂ Anodes for Sodium-Ion Batteries. Condensed Matter, 2019, 4, 53. | 0.8 | 18 |
| 39 | High Surface Area N-Doped Carbon Fibers with Accessible Reaction Sites for All-Solid-State Lithium-Sulfur Batteries. Small, 2022, 18, e2105678. | 5.2 | 16 |
| 40 | Large-Scale Manufacturing of Pattern-Integrated Paper Li-Ion Microbatteries through Roll-to-Roll Flexographic Printing. Advanced Materials Technologies, 2022, 7, . | 3.0 | 9 |
| 41 | Facile synthesis of ultrafine SnO ₂ nanoparticles on graphene nanosheets via thermal decomposition of tin-octoate as anode for lithium ion batteries. Journal of Nanoparticle Research, 2016, 18, 1. | 0.8 | 8 |
| 42 | Molecular Engineering of Biorefining Lignin Waste for Solid-State Electrolyte. ACS Sustainable Chemistry and Engineering, 2022, 10, 8704-8714. | 3.2 | 7 |
| 43 | A Modeling Approach for Optimization of Printed NMC622 Cathode for Capacity Density Improvement under Fast Charging Condition- 3D Simulation and Experimental Validation. , 2022, , . | | 3 |
| 44 | Aqueous Flow Batteries: Mass Transfer and Reaction Kinetic Enhanced Electrode for High-Performance Aqueous Flow Batteries (Adv. Funct. Mater. 43/2019). Advanced Functional Materials, 2019, 29, 1970297. | 7.8 | 0 |