

Daxian Cao

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

2,992
citations

185998

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264894

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times ranked

3913
citing authors

#	ARTICLE	IF	CITATIONS
1	Compressible Ionized Natural 3D Interconnected Loofah Membrane for Salinity Gradient Power Generation. <i>Small</i> , 2022, 18, e2104320.	5.2	22
2	High Surface Area N-doped Carbon Fibers with Accessible Reaction Sites for All-solid-state Lithium-Sulfur Batteries. <i>Small</i> , 2022, 18, e2105678.	5.2	16
3	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
4	Long-Cycling Sulfide-Based All-solid-state Batteries Enabled by Electrochemically Stable Electrodes. <i>Advanced Materials</i> , 2022, 34, e2200401.	11.1	62
5	Large-scale Manufacturing of Pattern-integrated Paper Li-ion Microbatteries through Roll-to-roll Flexographic Printing. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	9
6	A Modeling Approach for Optimization of Printed NMC622 Cathode for Capacity Density Improvement under Fast Charging Condition- 3D Simulation and Experimental Validation. , 2022, , .		3
7	Molecular Engineering of Biorefining Lignin Waste for Solid-State Electrolyte. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 8704-8714.	3.2	7
8	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
9	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
10	Photocatalytic Rejuvenation Enabled Self-Sanitizing, Reusable, and Biodegradable Masks against COVID-19. <i>ACS Nano</i> , 2021, 15, 11992-12005.	7.3	98
11	Additive Manufacturing of 3D Aerogels and Porous Scaffolds: A Review. <i>Advanced Functional Materials</i> , 2021, 31, 2103410.	7.8	61
12	Versatile zero-to three-dimensional carbon for electrochemical energy storage. , 2021, 3, 895-915.		41
13	Self-Stabilized LiNi _{0.8} Mn _{0.1} Co _{0.1} O ₂ in thiophosphate-based all-solid-state batteries through extra LiOH. <i>Energy Storage Materials</i> , 2021, 41, 505-514.	9.5	36
14	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
15	Stable Thiophosphate-Based All-Solid-State Lithium Batteries through Conformally Interfacial Nanocoating. <i>Nano Letters</i> , 2020, 20, 1483-1490.	4.5	112
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	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
18	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

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19	Functionalized Well-Aligned Channels Derived from Wood as a Convection-Enhanced Electrode for Aqueous Flow Batteries. ACS Applied Energy Materials, 2020, 3, 6249-6257.	2.5	19
20	Lithium Dendrite in All-Solid-State Batteries: Growth Mechanisms, Suppression Strategies, and Characterizations. Matter, 2020, 3, 57-94.	5.0	334
21	Mass Transfer and Reaction Kinetic Enhanced Electrode for High-Performance Aqueous Flow Batteries. Advanced Functional Materials, 2019, 29, 1903192.	7.8	50
22	Sulfide-Based Solid-State Electrolytes: Synthesis, Stability, and Potential for All-Solid-State Batteries. Advanced Materials, 2019, 31, e1901131.	11.1	365
23	Stable and Highly Ion-Selective Membrane Made from Cellulose Nanocrystals for Aqueous Redox Flow Batteries. Nano Letters, 2019, 19, 8979-8989.	4.5	38
24	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
25	Solid-State Batteries: Sulfide-Based Solid-State Electrolytes: Synthesis, Stability, and Potential for All-Solid-State Batteries (Adv. Mater. 44/2019). Advanced Materials, 2019, 31, 1970311.	11.1	75
26	Dual-Function, Tunable, Nitrogen-Doped Carbon for High-Performance Li Metal-Sulfur Full Cell. Small, 2019, 15, e1804609.	5.2	28
27	Abundant Organic Dye as an Anolyte for Aqueous Flow Battery with Multielectron Transfer. ACS Applied Energy Materials, 2019, 2, 7425-7437.	2.5	18
28	Stable lithium-sulfur full cells enabled by dual functional and interconnected mesocarbon arrays. Journal of Materials Chemistry A, 2019, 7, 3289-3297.	5.2	29
29	Understanding Phase Stability of Metallic 1T-MoS ₂ Anodes for Sodium-Ion Batteries. Condensed Matter, 2019, 4, 53.	0.8	18
30	3D Printed High-Performance Lithium Metal Microbatteries Enabled by Nanocellulose. Advanced Materials, 2019, 31, e1807313.	11.1	226
31	Lignin-Derived Holey, Layered, and Thermally Conductive 3D Scaffold for Lithium Dendrite Suppression. Small Methods, 2019, 3, 1800539.	4.6	39
32	Plasmonic-Enhanced Cholesteric Films: Coassembling Anisotropic Gold Nanorods with Cellulose Nanocrystals. Advanced Optical Materials, 2019, 7, 1801816.	3.6	44
33	Pyrolytic synthesis of MoO ₃ nanoplates within foam-like carbon nanoflakes for enhanced lithium ion storage. Journal of Colloid and Interface Science, 2018, 514, 686-693.	5.0	24
34	Bacterial-Derived, Compressible, and Hierarchical Porous Carbon for High-Performance Potassium-Ion Batteries. Nano Letters, 2018, 18, 7407-7413.	4.5	192
35	Metallic MoS ₂ for High Performance Energy Storage and Energy Conversion. Small, 2018, 14, e1800640.	5.2	218
36	Stable Metal Anode enabled by Porous Lithium Foam with Superior Ion Accessibility. Advanced Materials, 2018, 30, e1802156.	11.1	115

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37	Honeycomb-like carbon nanoflakes as a host for SnO ₂ nanoparticles allowing enhanced lithium storage performance. Journal of Materials Chemistry A, 2017, 5, 6817-6824.	5.2	101
38	Synthesis of NiS/carbon composites as anodes for high-performance sodium-ion batteries. Journal of Solid State Electrochemistry, 2017, 21, 3047-3055.	1.2	55
39	A Hierarchical Phosphorus Nanobarbed Nanowire Hybrid: Its Structure and Electrochemical Properties. Nano Letters, 2017, 17, 3376-3382.	4.5	39
40	Binding SnO ₂ nanoparticles onto carbon nanotubes with assistance of amorphous MoO ₃ towards enhanced lithium storage performance. Journal of Colloid and Interface Science, 2017, 504, 230-237.	5.0	22
41	Epitaxial Growth of Urchin-Like CoSe ₂ Nanorods from Electrospun Co-Embedded Porous Carbon Nanofibers and Their Superior Lithium Storage Properties. Particle and Particle Systems Characterization, 2017, 34, 1700185.	1.2	49
42	Nanocarved MoS ₂ -MoO ₂ Hybrids Fabricated Using <i>in Situ</i> Grown MoS ₂ as Nanomasks. ACS Nano, 2016, 10, 9509-9515.	7.3	52
43	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
44	Synthesis of SnO ₂ versus Sn crystals within N-doped porous carbon nanofibers via electrospinning towards high-performance lithium ion batteries. Nanoscale, 2016, 8, 7595-7603.	2.8	69