

Cheng-Bin Jin

List of Publications by Year in descending order

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papers

4,473
citations

147801

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4621
citing authors

#	ARTICLE	IF	CITATIONS
1	Pillared Structure Design of MXene with Ultralarge Interlayer Spacing for High-Performance Lithium-Ion Capacitors. <i>ACS Nano</i> , 2017, 11, 2459-2469.	14.6	700
2	3D lithium metal embedded within lithiophilic porous matrix for stable lithium metal batteries. <i>Nano Energy</i> , 2017, 37, 177-186.	16.0	431
3	Rejuvenating dead lithium supply in lithium metal anodes by iodine redox. <i>Nature Energy</i> , 2021, 6, 378-387.	39.5	282
4	In Situ Construction of a LiFâ€Enriched Interface for Stable Allâ€ESolidâ€EState Batteries and its Origin Revealed by Cryoâ€EEM. <i>Advanced Materials</i> , 2020, 32, e2000223.	21.0	278
5	Mg ₂ B ₂ O ₅ Nanowire Enabled Multifunctional Solid-State Electrolytes with High Ionic Conductivity, Excellent Mechanical Properties, and Flame-Retardant Performance. <i>Nano Letters</i> , 2018, 18, 3104-3112.	9.1	245
6	Atomic Sulfur Covalently Engineered Interlayers of Ti ₃ C ₂ MXene for Ultraâ€Fast Sodiumâ€Ion Storage by Enhanced Pseudocapacitance. <i>Advanced Functional Materials</i> , 2019, 29, 1808107.	14.9	213
7	Magnetic Fieldâ€Suppressed Lithium Dendrite Growth for Stable Lithiumâ€Metal Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1900260.	19.5	200
8	12 years roadmap of the sulfur cathode for lithium sulfur batteries (2009â€2020). <i>Energy Storage Materials</i> , 2020, 30, 346-366.	18.0	189
9	Tunable pseudocapacitance storage of MXene by cation pillaring for high performance sodium-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7794-7806.	10.3	186
10	Biomacromolecules enabled dendrite-free lithium metal battery and its origin revealed by cryo-electron microscopy. <i>Nature Communications</i> , 2020, 11, 488.	12.8	158
11	Biomass-based materials for green lithium secondary batteries. <i>Energy and Environmental Science</i> , 2021, 14, 1326-1379.	30.8	157
12	Metal oxide nanoparticles induced step-edge nucleation of stable Li metal anode working under an ultrahigh current density of 15 mA cm ⁻² . <i>Nano Energy</i> , 2018, 45, 203-209.	16.0	153
13	Enhanced sulfide chemisorption using boron and oxygen dually doped multi-walled carbon nanotubes for advanced lithiumâ€sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 632-640.	10.3	151
14	Ionic conductivity promotion of polymer electrolyte with ionic liquid grafted oxides for all-solid-state lithiumâ€sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12934-12942.	10.3	126
15	Modification of Nitrate Ion Enables Stable Solid Electrolyte Interphase in Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	96
16	Sustainable, inexpensive, naturally multi-functionalized biomass carbon for both Li metal anode and sulfur cathode. <i>Energy Storage Materials</i> , 2018, 15, 218-225.	18.0	88
17	A Decade of Progress on Solidâ€State Electrolytes for Secondary Batteries: Advances and Contributions. <i>Advanced Functional Materials</i> , 2021, 31, 2100891.	14.9	73
18	Sulfurâ€nitrogen co-doped porous carbon nanosheets to control lithium growth for a stable lithium metal anode. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18267-18274.	10.3	71

#	ARTICLE	IF	CITATIONS
19	A Successive Conversion-Deintercalation Delithiation Mechanism for Practical Composite Lithium Anodes. <i>Journal of the American Chemical Society</i> , 2022, 144, 212-218.	13.7	66
20	Failure Mechanism of Lithiophilic Sites in Composite Lithium Metal Anode under Practical Conditions. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	56
21	Empowering Metal Phosphides Anode with Catalytic Attribute toward Superior Cyclability for Lithium-Ion Storage. <i>Advanced Functional Materials</i> , 2019, 29, 1809051.	14.9	52
22	Reclaiming Inactive Lithium with a Triiodide/Iodide Redox Couple for Practical Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22990-22995.	13.8	52
23	Enhancing Catalyzed Decomposition of Na_2CO_3 with Co_2MnO_x Nanowire-Decorated Carbon Fibers for Advanced Na^+ - CO_2 Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17240-17248.	8.0	49
24	Deciphering the Effect of Electrical Conductivity of Hosts on Lithium Deposition in Composite Lithium Metal Anodes. <i>Advanced Energy Materials</i> , 2021, 11, 2101654.	19.5	49
25	A fast-ion conducting interface enabled by aluminum silicate fibers for stable Li metal batteries. <i>Chemical Engineering Journal</i> , 2021, 408, 128016.	12.7	48
26	Platinum nano-interlayer enhanced interface for stable all-solid-state batteries observed <i>via</i> cryo-transmission electron microscopy. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13541-13547.	10.3	47
27	Polar interaction of polymer host-solvent enables stable solid electrolyte interphase in composite lithium metal anodes. <i>Journal of Energy Chemistry</i> , 2022, 64, 172-178.	12.9	42
28	Armed lithium metal anodes with functional skeletons. <i>Materials Today Nano</i> , 2021, 13, 100103.	4.6	38
29	Enhanced sulfide chemisorption by conductive Al-doped ZnO decorated carbon nanoflakes for advanced Li^+ S batteries. <i>Nano Research</i> , 2018, 11, 477-489.	10.4	36
30	In-Situ Electrodeposition of Nanostructured Carbon Strengthened Interface for Stabilizing Lithium Metal Anode. <i>ACS Nano</i> , 2022, 16, 9883-9893.	14.6	34
31	Advances in carbon materials for stable lithium metal batteries. <i>New Carbon Materials</i> , 2022, 37, 1-24.	6.1	31
32	Natural Wood Structure Inspires Practical Lithium-Metal Batteries. <i>ACS Energy Letters</i> , 2021, 6, 2103-2110.	17.4	29
33	Cathode-Supported-Electrolyte Configuration for High-Performance All-Solid-State Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 11540-11547.	5.1	15
34	Lithiated aromatic biopolymer as high-performance organic anodes for lithium-ion storage. <i>Chemical Engineering Journal</i> , 2021, 409, 127454.	12.7	13
35	Reclaiming Inactive Lithium with a Triiodide/Iodide Redox Couple for Practical Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2021, 133, 23172.	2.0	10
36	Modification of Nitrate Ion Enables Stable Solid Electrolyte Interphase in Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	9