

Chen-Zi Zhao

List of Publications by Year in descending order

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papers

16,764
citations

71102

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all docs

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docs citations

61
times ranked

9990
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Safe Lithium Metal Anode in Rechargeable Batteries: A Review. <i>Chemical Reviews</i> , 2017, 117, 10403-10473.	47.7	4,365
2	A Review of Solid Electrolyte Interphases on Lithium Metal Anode. <i>Advanced Science</i> , 2016, 3, 1500213.	11.2	1,306
3	Designing solid-state electrolytes for safe, energy-dense batteries. <i>Nature Reviews Materials</i> , 2020, 5, 229-252.	48.7	1,167
4	Dendrite-Free Lithium Deposition Induced by Uniformly Distributed Lithium Ions for Efficient Lithium Metal Batteries. <i>Advanced Materials</i> , 2016, 28, 2888-2895.	21.0	877
5	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.	7.1	710
6	A review of rechargeable batteries for portable electronic devices. <i>Informa \tilde{A} Mater \tilde{A} Jly</i> , 2019, 1, 6-32.	17.3	694
7	Recent Advances in Energy Chemistry between Solid-State Electrolyte and Safe Lithium-Metal Anodes. <i>CheM</i> , 2019, 5, 74-96.	11.7	610
8	Coralloid Carbon Fiber-Based Composite Lithium Anode for Robust Lithium Metal Batteries. <i>Joule</i> , 2018, 2, 764-777.	24.0	609
9	Conductive Nanostructured Scaffolds Render Low Local Current Density to Inhibit Lithium Dendrite Growth. <i>Advanced Materials</i> , 2016, 28, 2155-2162.	21.0	591
10	Artificial Interphases for Highly Stable Lithium Metal Anode. <i>Matter</i> , 2019, 1, 317-344.	10.0	508
11	Artificial Soft-Rigid Protective Layer for Dendrite-Free Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2018, 28, 1705838.	14.9	470
12	An ion redistributor for dendrite-free lithium metal anodes. <i>Science Advances</i> , 2018, 4, eaat3446.	10.3	347
13	Controlling Dendrite Growth in Solid-State Electrolytes. <i>ACS Energy Letters</i> , 2020, 5, 833-843.	17.4	322
14	Dual-Phase Lithium Metal Anode Containing a Polysulfide-Induced Solid Electrolyte Interphase and Nanostructured Graphene Framework for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2015, 9, 6373-6382.	14.6	297
15	Fast Charging Lithium Batteries: Recent Progress and Future Prospects. <i>Small</i> , 2019, 15, e1805389.	10.0	277
16	Critical Current Density in Solid-State Lithium Metal Batteries: Mechanism, Influences, and Strategies. <i>Advanced Functional Materials</i> , 2021, 31, 2009925.	14.9	239
17	Li ₂ S ₅ -based ternary-salt electrolyte for robust lithium metal anode. <i>Energy Storage Materials</i> , 2016, 3, 77-84.	18.0	236
18	Dual-Phase Single-Ion Pathway Interfaces for Robust Lithium Metal in Working Batteries. <i>Advanced Materials</i> , 2019, 31, e1808392.	21.0	224

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19	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.	7.8	222
20	The timescale identification decoupling complicated kinetic processes in lithium batteries. <i>Joule</i> , 2022, 6, 1172-1198.	24.0	207
21	Liquid phase therapy to solid electrolyte-electrode interface in solid-state Li metal batteries: A review. <i>Energy Storage Materials</i> , 2020, 24, 75-84.	18.0	199
22	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.	13.7	198
23	The Radical Pathway Based on a Lithium-Metal-Compatible High-Dielectric Electrolyte for Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16732-16736.	13.8	170
24	Recent Advances in Energy Chemical Engineering of Next-Generation Lithium Batteries. <i>Engineering</i> , 2018, 4, 831-847.	6.7	169
25	Rechargeable Lithium Metal Batteries with an In-Built Solid-State Polymer Electrolyte and a High Voltage/Loading Ni-Rich Layered Cathode. <i>Advanced Materials</i> , 2020, 32, e1905629.	21.0	140
26	Unlocking the Failure Mechanism of Solid State Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2022, 12, 2100748.	19.5	129
27	The carrier transition from Li atoms to Li vacancies in solid-state lithium alloy anodes. <i>Science Advances</i> , 2021, 7, eabi5520.	10.3	110
28	Dry electrode technology, the rising star in solid-state battery industrialization. <i>Matter</i> , 2022, 5, 876-898.	10.0	108
29	A review of solid electrolytes for safe lithium-sulfur batteries. <i>Science China Chemistry</i> , 2017, 60, 1508-1526.	8.2	105
30	Toward the Scale-Up of Solid-State Lithium Metal Batteries: The Gaps between Lab-Level Cells and Practical Large-Format Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2002360.	19.5	103
31	Lithium Bonds in Lithium Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11192-11195.	13.8	99
32	Designing solid-state interfaces on lithium-metal anodes: a review. <i>Science China Chemistry</i> , 2019, 62, 1286-1299.	8.2	86
33	Improved interfacial electronic contacts powering high sulfur utilization in all-solid-state lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2020, 25, 436-442.	18.0	85
34	Anode-Free Solid-State Lithium Batteries: A Review. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	81
35	A Self-Limited Free-Standing Sulfide Electrolyte Thin Film for All-Solid-State Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2101985.	14.9	77
36	Safe Lithium-Metal Anodes for Li ²⁺ Batteries: From Fundamental Chemistry to Advanced Characterization and Effective Protection. <i>Batteries and Supercaps</i> , 2019, 2, 638-658.	4.7	67

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37	Towards Stable Lithium-Sulfur Batteries with a Low Self-Discharge Rate: Ion Diffusion Modulation and Anode Protection. <i>ChemSusChem</i> , 2015, 8, 2892-2901.	6.8	66
38	Dry electrode technology for scalable and flexible high-energy sulfur cathodes in all-solid-state lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2022, 71, 612-618.	12.9	54
39	Slurry-Coated Sulfur/Sulfide Cathode with Li Metal Anode for All-Solid-State Lithium-Sulfur Pouch Cells. <i>Batteries and Supercaps</i> , 2020, 3, 596-603.	4.7	50
40	Diamine molecules double lock-link structured graphene oxide sheets for high-performance sodium ions storage. <i>Energy Storage Materials</i> , 2021, 34, 45-52.	18.0	48
41	Interfacial redox behaviors of sulfide electrolytes in fast-charging all-solid-state lithium metal batteries. <i>Energy Storage Materials</i> , 2020, 31, 267-273.	18.0	45
42	Synthesis and Properties of Poly-Ether/Ethylene Carbonate Electrolytes with High Oxidative Stability. <i>Chemistry of Materials</i> , 2019, 31, 8466-8472.	6.7	43
43	Adaptive formed dual-phase interface for highly durable lithium metal anode in lithium-air batteries. <i>Energy Storage Materials</i> , 2020, 28, 350-356.	18.0	41
44	The Radical Pathway Based on a Lithium-Metal-Compatible High-Dielectric Electrolyte for Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2018, 130, 16974-16978.	2.0	36
45	Multiscale understanding of high-energy cathodes in solid-state batteries: from atomic scale to macroscopic scale. <i>Materials Futures</i> , 2022, 1, 012101.	8.4	34
46	Unexpected highly reversible topotactic CO ₂ sorption/desorption capacity for potassium dititanate. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12889-12896.	10.3	27
47	Toward Practical All-solid-state Batteries with Sulfide Electrolyte: A Review. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 377-385.	2.6	24
48	Stress Regulation on Atomic Bonding and Ionic Diffusivity: Mechanochemical Effects in Sulfide Solid Electrolytes. <i>Energy & Fuels</i> , 2021, 35, 10210-10218.	5.1	22
49	Lithium Bonds in Lithium Batteries. <i>Angewandte Chemie</i> , 2020, 132, 11288-11291.	2.0	20
50	Lithium Metal Anodes: Artificial Soft-Rigid Protective Layer for Dendrite-Free Lithium Metal Anode (<i>Adv. Funct. Mater.</i> 8/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870049.	14.9	12
51	Constructing Conformal Interface by Semiliquid Li Metal. <i>Joule</i> , 2019, 3, 1575-1577.	24.0	10
52	A Leap towards Stable Li-Metal Anode Interphases. <i>Trends in Chemistry</i> , 2019, 1, 709-710.	8.5	6
53	Liquid Phase Therapy with Localized High-Concentration Electrolytes for Solid-State Li Metal Pouch Cells. <i>Wuli Huaxue Xuebao/ Acta Physico-Chimica Sinica</i> , 2020, .	4.9	2
54	Lithium Anodes: Conductive Nanostructured Scaffolds Render Low Local Current Density to Inhibit Lithium Dendrite Growth (<i>Adv. Mater.</i> 11/2016). <i>Advanced Materials</i> , 2016, 28, 2090-2090.	21.0	1

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55	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.	21.0	1
56	Regulating Li-Ion Migration in Solid-State Electrolytes for Li Metal Anodes. ECS Meeting Abstracts, 2020, MA2020-01, 553-553.	0.0	0
57	Lithium Polysulfide-Based Electrolytes for Li Metal Anodes. ECS Meeting Abstracts, 2020, MA2020-01, 2921-2921.	0.0	0