Chen-Zi Zhao

List of Publications by Year
in descending order

57 papers	16,764 citations	71102 41 h-index	144013 57 g-index
61 all docs	61 docs citations	61 times ranked	9990 citing authors

#	Article	IF	Citations
1	Unlocking the Failure Mechanism of Solid State Lithium Metal Batteries. Advanced Energy Materials, 2022, 12, 2100748.	19.5	129
2	Multiscale understanding of high-energy cathodes in solid-state batteries: from atomic scale to macroscopic scale. Materials Futures, 2022, 1, 012101.	8.4	34
3	Dry electrode technology, the rising star in solid-state battery industrialization. Matter, 2022, 5, 876-898.	10.0	108
4	Dry electrode technology for scalable and flexible high-energy sulfur cathodes in all-solid-state lithium-sulfur batteries. Journal of Energy Chemistry, 2022, 71, 612-618.	12.9	54
5	Anodeâ€Free Solidâ€State Lithium Batteries: A Review. Advanced Energy Materials, 2022, 12, .	19.5	81
6	The timescale identification decoupling complicated kinetic processes in lithium batteries. Joule, 2022, 6, 1172-1198.	24.0	207
7	Diamine molecules double lock-link structured graphene oxide sheets for high-performance sodium ions storage. Energy Storage Materials, 2021, 34, 45-52.	18.0	48
8	Toward the Scaleâ€Up of Solidâ€State Lithium Metal Batteries: The Gaps between Labâ€Level Cells and Practical Largeâ€Format Batteries. Advanced Energy Materials, 2021, 11, 2002360.	19.5	103
9	Critical Current Density in Solidâ€State Lithium Metal Batteries: Mechanism, Influences, and Strategies. Advanced Functional Materials, 2021, 31, 2009925.	14.9	239
10	Stress Regulation on Atomic Bonding and Ionic Diffusivity: Mechanochemical Effects in Sulfide Solid Electrolytes. Energy & Fuels, 2021, 35, 10210-10218.	5.1	22
11	A Selfâ€Limited Freeâ€Standing Sulfide Electrolyte Thin Film for Allâ€Solidâ€State Lithium Metal Batteries. Advanced Functional Materials, 2021, 31, 2101985.	14.9	77
12	The carrier transition from Li atoms to Li vacancies in solid-state lithium alloy anodes. Science Advances, 2021, 7, eabi5520.	10.3	110
13	Improved interfacial electronic contacts powering high sulfur utilization in all-solid-state lithiumâ€“sulfur batteries. Energy Storage Materials, 2020, 25, 436-442.	18.0	85
14	Liquid phase therapy to solid electrolyteâ€“electrode interface in solid-state Li metal batteries: A review. Energy Storage Materials, 2020, 24, 75-84.	18.0	199
15	Toward Practical All-solid-state Batteries with Sulfide Electrolyte: A Review. Chemical Research in Chinese Universities, 2020, 36, 377-385.	2.6	24
16	Interfacial redox behaviors of sulfide electrolytes in fast-charging all-solid-state lithium metal batteries. Energy Storage Materials, 2020, 31, 267-273.	18.0	45
17	Adaptive formed dual-phase interface for highly durable lithium metal anode in lithiumâ€“air batteries. Energy Storage Materials, 2020, 28, 350-356.	18.0	41
18	Slurryâ€Coated Sulfur/Sulfide Cathode with Li Metal Anode for Allâ€Solidâ€State Lithiumâ€Sulfur Pouch Cells. Batteries and Supercaps, 2020, 3, 596-603.	4.7	50

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19	Controlling Dendrite Growth in Solid-State Electrolytes. ACS Energy Letters, 2020, 5, 833-843.	17.4	322
20	Rechargeable Lithium Metal Batteries with an Inâ€Built Solidâ€State Polymer Electrolyte and a High Voltage/Loading Niâ€Rich Layered Cathode. Advanced Materials, 2020, 32, e1905629.	21.0	140
21	Lithium Bonds in Lithium Batteries. Angewandte Chemie - International Edition, 2020, 59, 11192-11195.	13.8	99
22	Lithium Bonds in Lithium Batteries. Angewandte Chemie, 2020, 132, 11288-11291.	2.0	20
23	Designing solid-state electrolytes for safe, energy-dense batteries. Nature Reviews Materials, 2020, 5, 229-252.	48.7	1,167
24	Liquid Phase Therapy with Localized High-Concentration Electrolytes for Solid-State Li Metal Pouch Cells. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2020, .	4.9	2
25	Regulating Li-Ion Migration in Solid-State Electrolytes for Li Metal Anodes. ECS Meeting Abstracts, 2020, MA2020-01, 553-553.	0.0	0
26	Lithium Polysulfide-Based Electrolytes for Li Metal Anodes. ECS Meeting Abstracts, 2020, MA2020-01, 2921-2921.	0.0	0
27	Artificial Interphases for Highly Stable Lithium Metal Anode. Matter, 2019, 1, 317-344.	10.0	508
28	Constructing Conformal Interface by Semiliquid Li Metal. Joule, 2019, 3, 1575-1577.	24.0	10
29	A Leap towards Stable Li-Metal Anode Interphases. Trends in Chemistry, 2019, 1, 709-710.	8.5	6
30	Designing solid-state interfaces on lithium-metal anodes: a review. Science China Chemistry, 2019, 62, 1286-1299.	8.2	86
31	Synthesis and Properties of Poly-Ether/Ethylene Carbonate Electrolytes with High Oxidative Stability. Chemistry of Materials, 2019, 31, 8466-8472.	6.7	43
32	Safe Lithiumâ€Metal Anodes for Liâ^'O₂ Batteries: From Fundamental Chemistry to Advanced Characterization and Effective Protection. Batteries and Supercaps, 2019, 2, 638-658.	4.7	67
33	Lithiumâ€Metal Anodes: Dualâ€Phase Singleâ€Ion Pathway Interfaces for Robust Lithium Metal in Working Batteries (Adv. Mater. 19/2019). Advanced Materials, 2019, 31, 1970135.	21.0	1
34	Dualâ€Phase Singleâ€Ion Pathway Interfaces for Robust Lithium Metal in Working Batteries. Advanced Materials, 2019, 31, e1808392.	21.0	224
35	A review of rechargeable batteries for portable electronic devices. InformaÄnÃ-MateriÃ¡ly, 2019, 1, 6-32.	17.3	694
36	Fast Charging Lithium Batteries: Recent Progress and Future Prospects. Small, 2019, 15, e1805389.	10.0	277

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37	Recent Advances in Energy Chemistry between Solid-State Electrolyte and Safe Lithium-Metal Anodes. CheM, 2019, 5, 74-96.	11.7	610
38	Lithium Metal Anodes: Artificial Softâ€“Rigid Protective Layer for Dendriteâ€Free Lithium Metal Anode (Adv. Funct. Mater. 8/2018). Advanced Functional Materials, 2018, 28, 1870049.	14.9	12
39	Coralloid Carbon Fiber-Based Composite Lithium Anode for Robust Lithium Metal Batteries. Joule, 2018, 2, 764-777.	24.0	609
40	Artificial Softâ€“Rigid Protective Layer for Dendriteâ€Free Lithium Metal Anode. Advanced Functional Materials, 2018, 28, 1705838.	14.9	470
41	An ion redistributor for dendrite-free lithium metal anodes. Science Advances, 2018, 4, eaat3446.	10.3	347
42	Recent Advances in Energy Chemical Engineering of Next-Generation Lithium Batteries. Engineering, 2018, 4, 831-847.	6.7	169
43	The Radical Pathway Based on a Lithiumâ€Metalâ€Compatible Highâ€Dielectric Electrolyte for Lithiumâ€“Sulfur Batteries. Angewandte Chemie - International Edition, 2018, 57, 16732-16736.	13.8	170
44	The Radical Pathway Based on a Lithiumâ€Metalâ€Compatible Highâ€Dielectric Electrolyte for Lithiumâ€“Sulfur Batteries. Angewandte Chemie, 2018, 130, 16974-16978.	2.0	36
45	Healing High-Loading Sulfur Electrodes with Unprecedented Long Cycling Life: Spatial Heterogeneity Control. Journal of the American Chemical Society, 2017, 139, 8458-8466.	13.7	198
46	An anion-immobilized composite electrolyte for dendrite-free lithium metal anodes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11069-11074.	7.1	710
47	Toward Safe Lithium Metal Anode in Rechargeable Batteries: A Review. Chemical Reviews, 2017, 117, 10403-10473.	47.7	4,365
48	A review of solid electrolytes for safe lithium-sulfur batteries. Science China Chemistry, 2017, 60, 1508-1526.	8.2	105
49	Dendriteâ€Free Lithium Deposition Induced by Uniformly Distributed Lithium Ions for Efficient Lithium Metal Batteries. Advanced Materials, 2016, 28, 2888-2895.	21.0	877
50	Unexpected highly reversible topotactic CO₂ sorption/desorption capacity for potassium dititanate. Journal of Materials Chemistry A, 2016, 4, 12889-12896.	10.3	27
51	Lithium metal protection through in-situ formed solid electrolyte interphase in lithium-sulfur batteries: The role of polysulfides on lithium anode. Journal of Power Sources, 2016, 327, 212-220.	7.8	222
52	A Review of Solid Electrolyte Interphases on Lithium Metal Anode. Advanced Science, 2016, 3, 1500213.	11.2	1,306
53	Conductive Nanostructured Scaffolds Render Low Local Current Density to Inhibit Lithium Dendrite Growth. Advanced Materials, 2016, 28, 2155-2162.	21.0	591
54	Lithium Anodes: Conductive Nanostructured Scaffolds Render Low Local Current Density to Inhibit Lithium Dendrite Growth (Adv. Mater. 11/2016). Advanced Materials, 2016, 28, 2090-2090.	21.0	1

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55	Li 2 S 5 -based ternary-salt electrolyte for robust lithium metal anode. Energy Storage Materials, 2016, 3, 77-84.	18.0	236
56	Towards Stable Lithiumâ€“Sulfur Batteries with a Low Selfâ€Đischarge Rate: Ion Diffusion Modulation and Anode Protection. ChemSusChem, 2015, 8, 2892-2901.	6.8	66
57	Dual-Phase Lithium Metal Anode Containing a Polysulfide-Induced Solid Electrolyte Interphase and Nanostructured Graphene Framework for Lithiumâ€“Sulfur Batteries. ACS Nano, 2015, 9, 6373-6382.	14.6	297