Chen-Zi Zhao

List of Publications by Year
in descending order

57 papers	16,764 citations	81434 41 h-index	162838 57 g-index
61 all docs	61 docs citations	61 times ranked	11577 citing authors

#	Article	IF	Citations
1	Toward Safe Lithium Metal Anode in Rechargeable Batteries: A Review. Chemical Reviews, 2017, 117, 10403-10473.	23.0	4,365
2	A Review of Solid Electrolyte Interphases on Lithium Metal Anode. Advanced Science, 2016, 3, 1500213.	5.6	1,306
3	Designing solid-state electrolytes for safe, energy-dense batteries. Nature Reviews Materials, 2020, 5, 229-252.	23.3	1,167
4	Dendriteâ€Free Lithium Deposition Induced by Uniformly Distributed Lithium Ions for Efficient Lithium Metal Batteries. Advanced Materials, 2016, 28, 2888-2895.	11.1	877
5	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.	3.3	710
6	A review of rechargeable batteries for portable electronic devices. InformaÄnÃ-MateriÃ¡ly, 2019, 1, 6-32.	8.5	694
7	Recent Advances in Energy Chemistry between Solid-State Electrolyte and Safe Lithium-Metal Anodes. CheM, 2019, 5, 74-96.	5.8	610
8	Coralloid Carbon Fiber-Based Composite Lithium Anode for Robust Lithium Metal Batteries. Joule, 2018, 2, 764-777.	11.7	609
9	Conductive Nanostructured Scaffolds Render Low Local Current Density to Inhibit Lithium Dendrite Growth. Advanced Materials, 2016, 28, 2155-2162.	11.1	591
10	Artificial Interphases for Highly Stable Lithium Metal Anode. Matter, 2019, 1, 317-344.	5.0	508
11	Artificial Softâ€“Rigid Protective Layer for Dendriteâ€Free Lithium Metal Anode. Advanced Functional Materials, 2018, 28, 1705838.	7.8	470
12	An ion redistributor for dendrite-free lithium metal anodes. Science Advances, 2018, 4, eaat3446.	4.7	347
13	Controlling Dendrite Growth in Solid-State Electrolytes. ACS Energy Letters, 2020, 5, 833-843.	8.8	322
14	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.	7.3	297
15	Fast Charging Lithium Batteries: Recent Progress and Future Prospects. Small, 2019, 15, e1805389.	5.2	277
16	Critical Current Density in Solidâ€State Lithium Metal Batteries: Mechanism, Influences, and Strategies. Advanced Functional Materials, 2021, 31, 2009925.	7.8	239
17	Li 2 S 5 -based ternary-salt electrolyte for robust lithium metal anode. Energy Storage Materials, 2016, 3, 77-84.	9.5	236
18	Dualâ€Phase Singleâ€Ion Pathway Interfaces for Robust Lithium Metal in Working Batteries. Advanced Materials, 2019, 31, e1808392.	11.1	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. Journal of Power Sources, 2016, 327, 212-220.	4.0	222
20	The timescale identification decoupling complicated kinetic processes in lithium batteries. Joule, 2022, 6, 1172-1198.	11.7	207
21	Liquid phase therapy to solid electrolyteâ€“electrode interface in solid-state Li metal batteries: A review. Energy Storage Materials, 2020, 24, 75-84.	9.5	199
22	Healing High-Loading Sulfur Electrodes with Unprecedented Long Cycling Life: Spatial Heterogeneity Control. Journal of the American Chemical Society, 2017, 139, 8458-8466.	6.6	198
23	The Radical Pathway Based on a Lithiumâ€Metalâ€Compatible Highâ€Dielectric Electrolyte for Lithiumâ€“Sulfur Batteries. Angewandte Chemie - International Edition, 2018, 57, 16732-16736.	7.2	170
24	Recent Advances in Energy Chemical Engineering of Next-Generation Lithium Batteries. Engineering, 2018, 4, 831-847.	3.2	169
25	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.	11.1	140
26	Unlocking the Failure Mechanism of Solid State Lithium Metal Batteries. Advanced Energy Materials, 2022, 12, 2100748.	10.2	129
27	The carrier transition from Li atoms to Li vacancies in solid-state lithium alloy anodes. Science Advances, 2021, 7, eabi5520.	4.7	110
28	Dry electrode technology, the rising star in solid-state battery industrialization. Matter, 2022, 5, 876-898.	5.0	108
29	A review of solid electrolytes for safe lithium-sulfur batteries. Science China Chemistry, 2017, 60, 1508-1526.	4.2	105
30	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.	10.2	103
31	Lithium Bonds in Lithium Batteries. Angewandte Chemie - International Edition, 2020, 59, 11192-11195.	7.2	99
32	Designing solid-state interfaces on lithium-metal anodes: a review. Science China Chemistry, 2019, 62, 1286-1299.	4.2	86
33	Improved interfacial electronic contacts powering high sulfur utilization in all-solid-state lithiumâ€“sulfur batteries. Energy Storage Materials, 2020, 25, 436-442.	9.5	85
34	Anodeâ€Free Solidâ€State Lithium Batteries: A Review. Advanced Energy Materials, 2022, 12, .	10.2	81
35	A Selfâ€Limited Freeâ€Standing Sulfide Electrolyte Thin Film for Allâ€Solidâ€State Lithium Metal Batteries. Advanced Functional Materials, 2021, 31, 2101985.	7.8	77
36	Safe Lithiumâ€Metal Anodes for Liâ^'O₂ Batteries: From Fundamental Chemistry to Advanced Characterization and Effective Protection. Batteries and Supercaps, 2019, 2, 638-658.	2.4	67

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37	Towards Stable Lithiumâ€“Sulfur Batteries with a Low Selfâ€Discharge Rate: Ion Diffusion Modulation and Anode Protection. ChemSusChem, 2015, 8, 2892-2901.	3.6	66
38	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.	7.1	54
39	Slurryâ€Coated Sulfur/Sulfide Cathode with Li Metal Anode for Allâ€Solidâ€State Lithiumâ€Sulfur Pouch Cells. Batteries and Supercaps, 2020, 3, 596-603.	2.4	50
40	Diamine molecules double lock-link structured graphene oxide sheets for high-performance sodium ions storage. Energy Storage Materials, 2021, 34, 45-52.	9.5	48
41	Interfacial redox behaviors of sulfide electrolytes in fast-charging all-solid-state lithium metal batteries. Energy Storage Materials, 2020, 31, 267-273.	9.5	45
42	Synthesis and Properties of Poly-Ether/Ethylene Carbonate Electrolytes with High Oxidative Stability. Chemistry of Materials, 2019, 31, 8466-8472.	3.2	43
43	Adaptive formed dual-phase interface for highly durable lithium metal anode in lithiumâ€“air batteries. Energy Storage Materials, 2020, 28, 350-356.	9.5	41
44	The Radical Pathway Based on a Lithiumâ€Metalâ€Compatible Highâ€Dielectric Electrolyte for Lithiumâ€“Sulfur Batteries. Angewandte Chemie, 2018, 130, 16974-16978.	1.6	36
45	Multiscale understanding of high-energy cathodes in solid-state batteries: from atomic scale to macroscopic scale. Materials Futures, 2022, 1, 012101.	3.1	34
46	Unexpected highly reversible topotactic CO₂ sorption/desorption capacity for potassium dititanate. Journal of Materials Chemistry A, 2016, 4, 12889-12896.	5.2	27
47	Toward Practical All-solid-state Batteries with Sulfide Electrolyte: A Review. Chemical Research in Chinese Universities, 2020, 36, 377-385.	1.3	24
48	Stress Regulation on Atomic Bonding and Ionic Diffusivity: Mechanochemical Effects in Sulfide Solid Electrolytes. Energy & Fuels, 2021, 35, 10210-10218.	2.5	22
49	Lithium Bonds in Lithium Batteries. Angewandte Chemie, 2020, 132, 11288-11291.	1.6	20
50	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.	7.8	12
51	Constructing Conformal Interface by Semiliquid Li Metal. Joule, 2019, 3, 1575-1577.	11.7	10
52	A Leap towards Stable Li-Metal Anode Interphases. Trends in Chemistry, 2019, 1, 709-710.	4.4	6
53	Liquid Phase Therapy with Localized High-Concentration Electrolytes for Solid-State Li Metal Pouch Cells. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2020, .	2.2	2
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.	11.1	1

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55	LithiumâEMetal Anodes: DualâEPhase SingleâEIon Pathway Interfaces for Robust Lithium Metal in Working Batteries (Adv. Mater. 19/2019). Advanced Materials, 2019, 31, 1970135.	11.1	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