Peng Shi

List of Publications by Year in descending order

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31 papers	2,550 citations	257357 24 h-index	434063 31 g-index
32 all docs	32 docs citations	32 times ranked	2238 citing authors

#	Article	IF	Citations
1	Fluorinated Solid-Electrolyte Interphase in High-Voltage Lithium Metal Batteries. Joule, 2019, 3, 2647-2661.	11.7	432
2	Lithiophilic LiC₆ Layers on Carbon Hosts Enabling Stable Li Metal Anode in Working Batteries. Advanced Materials, 2019, 31, e1807131.	11.1	273
3	A Sustainable Solid Electrolyte Interphase for Highâ€Energyâ€Density Lithium Metal Batteries Under Practical Conditions. Angewandte Chemie - International Edition, 2020, 59, 3252-3257.	7.2	221
4	Lithiumâ€“matrix composite anode protected by a solid electrolyte layer for stable lithium metal batteries. Journal of Energy Chemistry, 2019, 37, 29-34.	7.1	219
5	How Does External Pressure Shape Li Dendrites in Li Metal Batteries?. Advanced Energy Materials, 2021, 11, 2003416.	10.2	141
6	Electrochemical Diagram of an Ultrathin Lithium Metal Anode in Pouch Cells. Advanced Materials, 2019, 31, e1902785.	11.1	121
7	A Review of Composite Lithium Metal Anode for Practical Applications. Advanced Materials Technologies, 2020, 5, .	3.0	111
8	Shielding Polysulfide Intermediates by an Organosulfurâ€Containing Solid Electrolyte Interphase on the Lithium Anode in Lithiumâ€“Sulfur Batteries. Advanced Materials, 2020, 32, e2003012.	11.1	108
9	Modification of Nitrate Ion Enables Stable Solid Electrolyte Interphase in Lithium Metal Batteries. Angewandte Chemie - International Edition, 2022, 61, .	7.2	96
10	Recent progress in carbon/lithium metal composite anode for safe lithium metal batteries. Rare Metals, 2018, 37, 449-458.	3.6	86
11	A Successive Conversionâ€“Deintercalation Delithiation Mechanism for Practical Composite Lithium Anodes. Journal of the American Chemical Society, 2022, 144, 212-218.	6.6	66
12	Thermal safety of dendritic lithium against non-aqueous electrolyte in pouch-type lithium metal batteries. Journal of Energy Chemistry, 2022, 72, 158-165.	7.1	65
13	The origin of sulfuryl-containing components in SEI from sulfate additives for stable cycling of ultrathin lithium metal anodes. Journal of Energy Chemistry, 2020, 47, 128-131.	7.1	63
14	A Sustainable Solid Electrolyte Interphase for Highâ€Energyâ€Density Lithium Metal Batteries Under Practical Conditions. Angewandte Chemie, 2020, 132, 3278-3283.	1.6	60
15	Failure Mechanism of Lithiophilic Sites in Composite Lithium Metal Anode under Practical Conditions. Advanced Energy Materials, 2022, 12, .	10.2	56
16	Reclaiming Inactive Lithium with a Triiodide/Iodide Redox Couple for Practical Lithium Metal Batteries. Angewandte Chemie - International Edition, 2021, 60, 22990-22995.	7.2	52
17	Crosstalk shielding of transition metal ions for long cycling lithiumâ€“metal batteries. Journal of Materials Chemistry A, 2020, 8, 4283-4289.	5.2	51
18	Deciphering the Effect of Electrical Conductivity of Hosts on Lithium Deposition in Composite Lithium Metal Anodes. Advanced Energy Materials, 2021, 11, 2101654.	10.2	49

#	Article	IF	Citations
19	Polar interaction of polymer hostâ€“solvent enables stable solid electrolyte interphase in composite lithium metal anodes. Journal of Energy Chemistry, 2022, 64, 172-178.	7.1	42
20	A Pressure Selfâ€Adaptable Route for Uniform Lithium Plating and Stripping in Composite Anode. Advanced Functional Materials, 2021, 31, 2004189.	7.8	39
21	The Insights of Lithium Metal Plating/Stripping in Porous Hosts: Progress and Perspectives. Energy Technology, 2021, 9, 2000700.	1.8	38
22	Dendrite-free sandwiched ultrathin lithium metal anode with even lithium plating and stripping behavior. Nano Research, 2019, 12, 2224-2229.	5.8	36
23	Mesoporous Graphene Hosts for Dendrite-Free Lithium Metal Anode in Working Rechargeable Batteries. Transactions of Tianjin University, 2020, 26, 127-134.	3.3	33
24	Advances in carbon materials for stable lithium metal batteries. New Carbon Materials, 2022, 37, 1-24.	2.9	31
25	Glycolide additives enrich organic components in the solid electrolyte interphase enabling stable ultrathin lithium metal anodes. Materials Chemistry Frontiers, 2021, 5, 2791-2797.	3.2	21
26	Stable interfaces constructed by concentrated ether electrolytes to render robust lithium metal batteries. Chinese Journal of Chemical Engineering, 2021, 37, 152-158.	1.7	10
27	Reclaiming Inactive Lithium with a Triiodide/Iodide Redox Couple for Practical Lithium Metal Batteries. Angewandte Chemie, 2021, 133, 23172.	1.6	10
28	Modification of Nitrate Ion Enables Stable Solid Electrolyte Interphase in Lithium Metal Batteries. Angewandte Chemie, 2022, 134, .	1.6	9
29	Failure mechanism of lithium metal anode under practical conditions. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 228501.	0.2	8
30	Composite Lithium Anodes: A Review of Composite Lithium Metal Anode for Practical Applications (Adv. Mater. Technol. 1/2020). Advanced Materials Technologies, 2020, 5, 2070002.	3.0	2
31	InnenrÃ¼cktitelbild: A Sustainable Solid Electrolyte Interphase for Highâ€Energyâ€Density Lithium Metal Batteries Under Practical Conditions (Angew. Chem. 8/2020). Angewandte Chemie, 2020, 132, 3363-3363.	1.6	0