Hongyao Zhou

List of Publications by Year
in descending order

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23 papers	1,320 citations	471061 17 h-index	642321 23 g-index
23 all docs	23 docs citations	23 times ranked	1454 citing authors

#	Article	IF	Citations
1	Designing polymer coatings for lithium metal protection. Nanotechnology, 2022, 33, 112501.	1.3	2
2	Ultrahigh coulombic efficiency electrolyte enables Li||SPAN batteries with superior cycling performance. Materials Today, 2021, 42, 17-28.	8.3	50
3	Quantification of the ion transport mechanism in protective polymer coatings on lithium metal anodes. Chemical Science, 2021, 12, 7023-7032.	3.7	7
4	Tailoring electrolyte solvation for Li metal batteries cycled at ultra-low temperature. Nature Energy, 2021, 6, 303-313.	19.8	386
5	Supramolecular Thermocells Based on Thermo-Responsiveness of Hostâ€“Guest Chemistry. Bulletin of the Chemical Society of Japan, 2021, 94, 1525-1546.	2.0	24
6	An anode-free Li metal cell with replenishable Li designed for long cycle life. Energy Storage Materials, 2021, 36, 251-256.	9.5	18
7	Graphite-Based Lithium-Free 3D Hybrid Anodes for High Energy Density All-Solid-State Batteries. ACS Energy Letters, 2021, 6, 1831-1838.	8.8	56
8	Reversible Switching of Battery Internal Resistance Using Iongate Separators. Advanced Functional Materials, 2021, 31, 2102198.	7.8	9
9	Low-Cost Li||SPAN Batteries Enabled by Sustained Additive Release. ACS Applied Energy Materials, 2021, 4, 6422-6429.	2.5	2
10	Protective coatings for lithium metal anodes: Recent progress and future perspectives. Journal of Power Sources, 2020, 450, 227632.	4.0	104
11	Nonpassivated Silicon Anode Surface. ACS Applied Materials & Interfaces, 2020, 12, 26593-26600.	4.0	45
12	Draining Over Blocking: Nanoâ€€Composite Janus Separators for Mitigating Internal Shorting of Lithium Batteries. Advanced Materials, 2020, 32, e1906836.	11.1	62
13	Thin Solid Electrolyte Layers Enabled by Nanoscopic Polymer Binding. ACS Energy Letters, 2020, 5, 955-961.	8.8	36
14	Hexakis(2,3,6-tri-O-methyl)-Î±-cyclodextrinâ€“I₅^{â^'} complex in aqueous I^{â^'}/I₃^{â^'} thermocells and enhancement in the Seebeck coefficient. Chemical Science, 2019, 10, 773-780.	3.7	30
15	In situ formed polymer gel electrolytes for lithium batteries with inherent thermal shutdown safety features. Journal of Materials Chemistry A, 2019, 7, 16984-16991.	5.2	46
16	A Theoretical Basis for the Enhancement of Seebeck Coefficients in Supramolecular Thermocells. Bulletin of the Chemical Society of Japan, 2019, 92, 1142-1147.	2.0	12
17	A scalable 3D lithium metal anode. Energy Storage Materials, 2019, 16, 505-511.	9.5	95
18	High Seebeck Coefficient Electrochemical Thermocells for Efficient Waste Heat Recovery. ACS Applied Energy Materials, 2018, 1, 1424-1428.	2.5	44

#	Article	IF	Citations
19	Thermo-electrochemical cells empowered by selective inclusion of redox-active ions by polysaccharides. Sustainable Energy and Fuels, 2018, 2, 472-478.	2.5	35
20	A Scalable Synthesis Pathway to Nanoporous Metal Structures. ACS Nano, 2018, 12, 432-440.	7.3	39
21	Structure and Solution Dynamics of Lithium Methyl Carbonate as a Protective Layer For Lithium Metal. ACS Applied Energy Materials, 2018, 1, 1864-1869.	2.5	41
22	Suppressing Lithium Dendrite Growth with a Single-Component Coating. ACS Applied Materials & Interfaces, 2017, 9, 30635-30642.	4.0	38
23	Supramolecular Thermo-Electrochemical Cells: Enhanced Thermoelectric Performance by Hostâ€“Guest Complexation and Salt-Induced Crystallization. Journal of the American Chemical Society, 2016, 138, 10502-10507.	6.6	139