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	Tailoring electrolyte solvation for Li metal batteries cycled at ultra-low temperature. Nature Energy, 2021, 6, 303-313.	19.8	386
2	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
3	Protective coatings for lithium metal anodes: Recent progress and future perspectives. Journal of Power Sources, 2020, 450, 227632.	4.0	104
4	A scalable 3D lithium metal anode. Energy Storage Materials, 2019, 16, 505-511.	9.5	95
5	Draining Over Blocking: Nanoâ€Composite Janus Separators for Mitigating Internal Shorting of Lithium Batteries. Advanced Materials, 2020, 32, e1906836.	11.1	62
6	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
7	Ultrahigh coulombic efficiency electrolyte enables Li||SPAN batteries with superior cycling performance. Materials Today, 2021, 42, 17-28.	8.3	50
8	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
9	Nonpassivated Silicon Anode Surface. ACS Applied Materials & Interfaces, 2020, 12, 26593-26600.	4.0	45
10	High Seebeck Coefficient Electrochemical Thermocells for Efficient Waste Heat Recovery. ACS Applied Energy Materials, 2018, 1, 1424-1428.	2.5	44
11	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
12	A Scalable Synthesis Pathway to Nanoporous Metal Structures. ACS Nano, 2018, 12, 432-440.	7.3	39
13	Suppressing Lithium Dendrite Growth with a Single-Component Coating. ACS Applied Materials & Interfaces, 2017, 9, 30635-30642.	4.0	38
14	Thin Solid Electrolyte Layers Enabled by Nanoscopic Polymer Binding. ACS Energy Letters, 2020, 5, 955-961.	8.8	36
15	Thermo-electrochemical cells empowered by selective inclusion of redox-active ions by polysaccharides. Sustainable Energy and Fuels, 2018, 2, 472-478.	2.5	35
16	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
17	Supramolecular Thermocells Based on Thermo-Responsiveness of Hostâ€“Guest Chemistry. Bulletin of the Chemical Society of Japan, 2021, 94, 1525-1546.	2.0	24
18	An anode-free Li metal cell with replenishable Li designed for long cycle life. Energy Storage Materials, 2021, 36, 251-256.	9.5	18

#	Article	IF	Citations
19	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
20	Reversible Switching of Battery Internal Resistance Using Iongate Separators. Advanced Functional Materials, 2021, 31, 2102198.	7.8	9
21	Quantification of the ion transport mechanism in protective polymer coatings on lithium metal anodes. Chemical Science, 2021, 12, 7023-7032.	3.7	7
22	Low-Cost Li||SPAN Batteries Enabled by Sustained Additive Release. ACS Applied Energy Materials, 2021, 4, 6422-6429.	2.5	2
23	Designing polymer coatings for lithium metal protection. Nanotechnology, 2022, 33, 112501.	1.3	2