Xiaotun Liu

List of Publications by Year in Descending Order

16 papers	1,421 citations	13 h-index	17 g-index
17 ext. papers	2,082 ext. citations	18.6 avg, IF	5.02 L-index

#	Paper	IF	Citations
16	Regulating electrodeposition morphology in high-capacity aluminium and zinc battery anodes using interfacial metal–substrate bonding. *Nature Energy*, **2021**, 6, 398-406	62.3	51
15	Spontaneous and field-induced crystallographic reorientation of metal electrodeposits at battery anodes. *Science Advances*, **2020**, 6, eabb1122	14.3	64
14	Electrodeposition of Zinc in Aqueous Electrolytes Containing High Molecular Weight Polymers. *Macromolecules*, **2020**, 53, 2694-2701	5.5	14
13	Rechargeable Lithium Metal Batteries with an In-Built Solid-State Polymer Electrolyte and a High Voltage/Loading Ni-Rich Layered Cathode. *Advanced Materials*, **2020**, 32, e1905629	24	59
12	Designing electrolytes with polymerlike glass-forming properties and fast ion transport at low temperatures. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 26053-26060	11.5	26
11	Structure, Rheology, and Electrokinetics of Soft Colloidal Suspension Electrolytes. *Langmuir*, **2020**, 36, 9047-9053	4	3
10	Physical Orphaning versus Chemical Instability: Is Dendritic Electrodeposition of Li Fatal?. *ACS Energy Letters*, **2019**, 4, 1349-1355	20.1	51
9	Solid-state polymer electrolytes with in-built fast interfacial transport for secondary lithium batteries. *Nature Energy*, **2019**, 4, 365-373	62.3	363
8	Microscopic Origins of Caging and Equilibration of Self-Suspended Hairy Nanoparticles. *Macromolecules*, **2019**, 52, 8187-8196	5.5	6
7	Reversible epitaxial electrodeposition of metals in battery anodes. *Science*, **2019**, 366, 645-648	33.3	512
6	Solid-state polymer electrolytes stabilized by task-specific salt additives. *Journal of Materials Chemistry A*, **2019**, 7, 7823-7830	13	48
5	Nonplanar Electrode Architectures for Ultrahigh Areal Capacity Batteries. *ACS Energy Letters*, **2019**, 4, 271-275	20.1	22
4	Titelbild: Building Organic/Inorganic Hybrid Interphases for Fast Interfacial Transport in Rechargeable Metal Batteries (Angew. Chem. 4/2018). *Angewandte Chemie*, **2018**, 130, 863-863	3.6	
3	Building Organic/Inorganic Hybrid Interphases for Fast Interfacial Transport in Rechargeable Metal Batteries. *Angewandte Chemie - International Edition*, **2018**, 57, 992-996	16.4	139
2	Building Organic/Inorganic Hybrid Interphases for Fast Interfacial Transport in Rechargeable Metal Batteries. *Angewandte Chemie*, **2018**, 130, 1004-1008	3.6	44
1	Nanofibers from water-extractable melt-blown immiscible polymer blends. *Polymer*, **2016**, 101, 269-273	3.9	19