

Rui Xu

List of Publications by Citations

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29
papers

2,089
citations

17
h-index

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g-index

33
ext. papers

2,967
ext. citations

13.8
avg, IF

5.63
L-index

#	Paper	IF	Citations
29	Artificial Soft/Rigid Protective Layer for Dendrite-Free Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2018 , 28, 1705838	15.6	355
28	Artificial Interphases for Highly Stable Lithium Metal Anode. <i>Matter</i> , 2019 , 1, 317-344	12.7	303
27	Regulating the Inner Helmholtz Plane for Stable Solid Electrolyte Interphase on Lithium Metal Anodes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9422-9429	16.4	216
26	Controlling Dendrite Growth in Solid-State Electrolytes. <i>ACS Energy Letters</i> , 2020 , 5, 833-843	20.1	165
25	Dual-Phase Single-Ion Pathway Interfaces for Robust Lithium Metal in Working Batteries. <i>Advanced Materials</i> , 2019 , 31, e1808392	24	162
24	Rational design of two-dimensional nanomaterials for lithium/sulfur batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 1049-1075	35.4	156
23	Toward Critical Electrode/Electrolyte Interfaces in Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 1909887	15.6	114
22	Plating/Stripping Behavior of Actual Lithium Metal Anode. <i>Advanced Energy Materials</i> , 2019 , 9, 1902254	21.8	109
21	A review on the failure and regulation of solid electrolyte interphase in lithium batteries. <i>Journal of Energy Chemistry</i> , 2021 , 59, 306-319	12	59
20	Identifying the Critical Anion-Cation Coordination to Regulate the Electric Double Layer for an Efficient Lithium-Metal Anode Interface. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4215-4220	16.4	58
19	Non-Solvating and Low-Dielectricity Cosolvent for Anion-Derived Solid Electrolyte Interphases in Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 11442-11447	16.4	52
18	A bifunctional ethylene-vinyl acetate copolymer protective layer for dendrites-free lithium metal anodes. <i>Journal of Energy Chemistry</i> , 2020 , 48, 203-207	12	51
17	Rapid Lithium Diffusion in Order@Disorder Pathways for Fast-Charging Graphite Anodes. <i>Small Structures</i> , 2020 , 1, 2000010	8.7	51
16	Safe Lithium-Metal Anodes for LiO ₂ Batteries: From Fundamental Chemistry to Advanced Characterization and Effective Protection. <i>Batteries and Supercaps</i> , 2019 , 2, 638-658	5.6	48
15	The reduction of interfacial transfer barrier of Li ions enabled by inorganics-rich solid-electrolyte interphase. <i>Energy Storage Materials</i> , 2020 , 28, 401-406	19.4	38
14	Two-dimensional vermiculite separator for lithium sulfur batteries. <i>Chinese Chemical Letters</i> , 2017 , 28, 2235-2238	8.1	36
13	4.5 V High-Voltage Rechargeable Batteries Enabled by the Reduction of Polarization on the Lithium Metal Anode. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15235-15238	16.4	24

12	Competitive Solid-Electrolyte Interphase Formation on Working Lithium Anodes. <i>Trends in Chemistry</i> , 2021 , 3, 5-14	14.8	17
11	Designing and Demystifying the Lithium Metal Interface toward Highly Reversible Batteries. <i>Advanced Materials</i> , 2021 , e2105962	24	16
10	Lithium Metal Anodes: Artificial Soft/Rigid Protective Layer for Dendrite-Free Lithium Metal Anode (Adv. Funct. Mater. 8/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870049	15.6	12
9	Identifying the Critical Anion Coordination to Regulate the Electric Double Layer for an Efficient Lithium-Metal Anode Interface. <i>Angewandte Chemie</i> , 2021 , 133, 4261-4266	3.6	10
8	Review on nanomaterials for next-generation batteries with lithium metal anodes. <i>Nano Select</i> , 2020 , 1, 94-110	3.1	9
7	Non-Solvating and Low-Dielectricity Cosolvent for Anion-Derived Solid Electrolyte Interphases in Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 11543-11548	3.6	9
6	A Toolbox of Reference Electrodes for Lithium Batteries. <i>Advanced Functional Materials</i> , 2022 , 32, 21084496	4.96	7
5	4.5 V High-Voltage Rechargeable Batteries Enabled by the Reduction of Polarization on the Lithium Metal Anode. <i>Angewandte Chemie</i> , 2019 , 131, 15379-15382	3.6	3
4	Lithium-Metal Anodes: Dual-Phase Single-Ion Pathway Interfaces for Robust Lithium Metal in Working Batteries (Adv. Mater. 19/2019). <i>Advanced Materials</i> , 2019 , 31, 1970135	24	1
3	Designing and Demystifying the Lithium Metal Interface toward Highly Reversible Batteries (Adv. Mater. 52/2021). <i>Advanced Materials</i> , 2021 , 33, 2170413	24	1
2	Innentitelbild: 4.5 V High-Voltage Rechargeable Batteries Enabled by the Reduction of Polarization on the Lithium Metal Anode (Angew. Chem. 43/2019). <i>Angewandte Chemie</i> , 2019 , 131, 15306-15306	3.6	
1	Rücktitelbild: Identifying the Critical Anion Coordination to Regulate the Electric Double Layer for an Efficient Lithium-Metal Anode Interface (Angew. Chem. 8/2021). <i>Angewandte Chemie</i> , 2021 , 133, 4428-4428	3.6	