

Rui Xu

List of Publications by Year in descending order

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31
papers

3,859
citations

304368

22
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454577

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33
all docs

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docs citations

33
times ranked

3478
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantification of the Dynamic Interface Evolution in High-Efficiency Working Li-Metal Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	13
2	Quantification of the Dynamic Interface Evolution in High-Efficiency Working Li-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	66
3	A Toolbox of Reference Electrodes for Lithium Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	27
4	A review on the failure and regulation of solid electrolyte interphase in lithium batteries. <i>Journal of Energy Chemistry</i> , 2021, 59, 306-319.	7.1	183
5	Competitive Solid-Electrolyte Interphase Formation on Working Lithium Anodes. <i>Trends in Chemistry</i> , 2021, 3, 5-14.	4.4	34
6	Identifying the Critical Anion-Cation Coordination to Regulate the Electric Double Layer for an Efficient Lithium-Metal Anode Interface. <i>Angewandte Chemie</i> , 2021, 133, 4261-4266.	1.6	25
7	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.	7.2	145
8	Identifying the Critical Anion-Cation Coordination to Regulate the Electric Double Layer for an Efficient Lithium-Metal Anode Interface (<i>Angew. Chem.</i> 8/2021). <i>Angewandte Chemie</i> , 2021, 133, 4428-4428.	1.6	0
9	Non-Solvating and Low-Dielectricity Cosolvent for Anion-Derived Solid Electrolyte Interphases in Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2021, 133, 11543-11548.	1.6	19
10	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.	7.2	169
11	Designing and Demystifying the Lithium Metal Interface toward Highly Reversible Batteries. <i>Advanced Materials</i> , 2021, 33, e2105962.	11.1	59
12	Designing and Demystifying the Lithium Metal Interface toward Highly Reversible Batteries (Adv.) <i>Trends in Chemistry</i> , 2021, 3, 5-14.	11.1	59
13	Rational design of two-dimensional nanomaterials for lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2020, 13, 1049-1075.	15.6	285
14	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.	9.5	55
15	A bifunctional ethylene-vinyl acetate copolymer protective layer for dendrites-free lithium metal anodes. <i>Journal of Energy Chemistry</i> , 2020, 48, 203-207.	7.1	68
16	Rapid Lithium Diffusion in Order-Disorder Pathways for Fast-Charging Graphite Anodes. <i>Small Structures</i> , 2020, 1, 2000010.	6.9	130
17	Review on nanomaterials for next-generation batteries with lithium metal anodes. <i>Nano Select</i> , 2020, 1, 94-110.	1.9	14
18	Controlling Dendrite Growth in Solid-State Electrolytes. <i>ACS Energy Letters</i> , 2020, 5, 833-843.	8.8	322

#	ARTICLE	IF	CITATIONS
19	Toward Critical Electrode/Electrolyte Interfaces in Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1909887.	7.8	251
20	Artificial Interphases for Highly Stable Lithium Metal Anode. <i>Matter</i> , 2019, 1, 317-344.	5.0	508
21	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.	7.2	47
22	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.	1.6	7
23	Plating/Stripping Behavior of Actual Lithium Metal Anode. <i>Advanced Energy Materials</i> , 2019, 9, 1902254.	10.2	168
24	Innentitelbild: 4.5 V High Voltage Rechargeable Batteries Enabled by the Reduction of Polarization on the Lithium Metal Anode (<i>Angew. Chem.</i> 43/2019). <i>Angewandte Chemie</i> , 2019, 131, 15306-15306.	1.6	0
25	Safe Lithium Metal Anodes for Li^+O_2 Batteries: From Fundamental Chemistry to Advanced Characterization and Effective Protection. <i>Batteries and Supercaps</i> , 2019, 2, 638-658.	2.4	67
26	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.	6.6	429
27	Lithium Metal Anodes: Dual Phase Single Ion Pathway Interfaces for Robust Lithium Metal in Working Batteries (<i>Adv. Mater.</i> 19/2019). <i>Advanced Materials</i> , 2019, 31, 1970135.	11.1	1
28	Dual Phase Single Ion Pathway Interfaces for Robust Lithium Metal in Working Batteries. <i>Advanced Materials</i> , 2019, 31, e1808392.	11.1	224
29	Lithium Metal Anodes: Artificial Soft Rigid Protective Layer for Dendrite Free Lithium Metal Anode (<i>Adv. Funct. Mater.</i> 8/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870049.	7.8	12
30	Artificial Soft Rigid Protective Layer for Dendrite Free Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2018, 28, 1705838.	7.8	470
31	Two-dimensional vermiculite separator for lithium sulfur batteries. <i>Chinese Chemical Letters</i> , 2017, 28, 2235-2238.	4.8	54