

Rui Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

11,073
citations

331259

21
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525886

27
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29
all docs

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docs citations

29
times ranked

7744
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Safe Lithium Metal Anode in Rechargeable Batteries: A Review. <i>Chemical Reviews</i> , 2017, 117, 10403-10473.	23.0	4,365
2	A Review of Solid Electrolyte Interphases on Lithium Metal Anode. <i>Advanced Science</i> , 2016, 3, 1500213.	5.6	1,306
3	Lithiophilic Sites in Doped Graphene Guide Uniform Lithium Nucleation for Dendrite-Free Lithium Metal Anodes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7764-7768.	7.2	989
4	Dendrite-Free Lithium Deposition Induced by Uniformly Distributed Lithium Ions for Efficient Lithium Metal Batteries. <i>Advanced Materials</i> , 2016, 28, 2888-2895.	11.1	877
5	Conductive Nanostructured Scaffolds Render Low Local Current Density to Inhibit Lithium Dendrite Growth. <i>Advanced Materials</i> , 2016, 28, 2155-2162.	11.1	591
6	Implantable Solid Electrolyte Interphase in Lithium-Metal Batteries. <i>CheM</i> , 2017, 2, 258-270.	5.8	474
7	Lithiophilicity chemistry of heteroatom-doped carbon to guide uniform lithium nucleation in lithium metal anodes. <i>Science Advances</i> , 2019, 5, eaau7728.	4.7	417
8	An ion redistributor for dendrite-free lithium metal anodes. <i>Science Advances</i> , 2018, 4, eaat3446.	4.7	347
9	Dual-Phase Lithium Metal Anode Containing a Polysulfide-Induced Solid Electrolyte Interphase and Nanostructured Graphene Framework for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2015, 9, 6373-6382.	7.3	297
10	Lithiophilic LiC ₆ Layers on Carbon Hosts Enabling Stable Li Metal Anode in Working Batteries. <i>Advanced Materials</i> , 2019, 31, e1807131.	11.1	273
11	A Sustainable Solid Electrolyte Interphase for High-Energy-Density Lithium Metal Batteries Under Practical Conditions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3252-3257.	7.2	221
12	Lithiophilic Sites in Doped Graphene Guide Uniform Lithium Nucleation for Dendrite-Free Lithium Metal Anodes. <i>Angewandte Chemie</i> , 2017, 129, 7872-7876.	1.6	186
13	N-Doped Graphene Modified 3D Porous Cu Current Collector toward Microscale Homogeneous Li Deposition for Li Metal Anodes. <i>Advanced Energy Materials</i> , 2018, 8, 1800914.	10.2	155
14	Electrochemical Diagram of an Ultrathin Lithium Metal Anode in Pouch Cells. <i>Advanced Materials</i> , 2019, 31, e1902785.	11.1	121
15	The carrier transition from Li atoms to Li vacancies in solid-state lithium alloy anodes. <i>Science Advances</i> , 2021, 7, eabi5520.	4.7	110
16	An Atomic Insight into the Chemical Origin and Variation of the Dielectric Constant in Liquid Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21473-21478.	7.2	74
17	In-situ organic SEI layer for dendrite-free lithium metal anode. <i>Energy Storage Materials</i> , 2020, 27, 69-77.	9.5	70
18	A Sustainable Solid Electrolyte Interphase for High-Energy-Density Lithium Metal Batteries Under Practical Conditions. <i>Angewandte Chemie</i> , 2020, 132, 3278-3283.	1.6	60

#	ARTICLE	IF	CITATIONS
19	Spatially uniform Li deposition realized by 3D continuous duct-like graphene host for high energy density Li metal anode. <i>Carbon</i> , 2020, 161, 198-205.	5.4	43
20	A Pressure Self-Adaptable Route for Uniform Lithium Plating and Stripping in Composite Anode. <i>Advanced Functional Materials</i> , 2021, 31, 2004189.	7.8	39
21	Favorable Lithium Nucleation on Lithiophilic Framework Porphyrin for Dendrite-Free Lithium Metal Anodes. <i>Research</i> , 2019, 2019, 4608940.	2.8	29
22	An Atomic Insight into the Chemical Origin and Variation of the Dielectric Constant in Liquid Electrolytes. <i>Angewandte Chemie</i> , 2021, 133, 21643-21648.	1.6	9
23	Innentitelbild: Lithiophilic Sites in Doped Graphene Guide Uniform Lithium Nucleation for Dendrite-Free Lithium Metal Anodes (<i>Angew. Chem.</i> 27/2017). <i>Angewandte Chemie</i> , 2017, 129, 7790-7790.	1.6	4
24	Lithiophilic Property of Artificial Alkoxides and Mercaptide Layers to Guide Uniform Li Nucleation for Stable Lithium Metal Anodes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22493-22501.	1.5	3
25	Lithiophilic seeds and rigid arrays synergistic induced dendrite-free and stable Li anode towards long-life lithium-oxygen batteries. <i>Journal of Energy Chemistry</i> , 2022, 73, 268-276.	7.1	2
26	Innenr¼ctitelbild: A Sustainable Solid Electrolyte Interphase for High-Energy-Density Lithium Metal Batteries Under Practical Conditions (<i>Angew. Chem.</i> 8/2020). <i>Angewandte Chemie</i> , 2020, 132, 3363-3363.	1.6	0