

Daiwei Wang

List of Publications by Year in descending order

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17
papers

2,263
citations

516215

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887659

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times ranked

2899
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#	ARTICLE	IF	CITATIONS
1	Polymer-organic solid electrolyte interphase for stable lithium metal batteries under lean electrolyte conditions. <i>Nature Materials</i> , 2019, 18, 384-389.	13.3	587
2	Stable metal battery anodes enabled by polyethylenimine sponge hosts by way of electrokinetic effects. <i>Nature Energy</i> , 2018, 3, 1076-1083.	19.8	338
3	Low-temperature and high-rate-charging lithium metal batteries enabled by an electrochemically active monolayer-regulated interface. <i>Nature Energy</i> , 2020, 5, 534-542.	19.8	280
4	Exceptionally High Ionic Conductivity in $\text{Na}_3\text{P}_2\text{As}_4\text{S}_{10}$ with Improved Moisture Stability for Solid-State Sodium-Ion Batteries. <i>Advanced Materials</i> , 2017, 29, 1605561.	11.1	164
5	Self-Formed Hybrid Interphase Layer on Lithium Metal for High-Performance Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2018, 12, 1500-1507.	7.3	149
6	Salt-Based Organic-Inorganic Nanocomposites: Towards A Stable Lithium Metal/Li ₁₀ GeP ₂ S ₁₂ Solid Electrolyte Interface. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13608-13612.	7.2	138
7	Stable Li Metal Anode by a Hybrid Lithium Polysulfidophosphate/Polymer Cross-Linking Film. <i>ACS Energy Letters</i> , 2019, 4, 1271-1278.	8.8	107
8	Stable Li metal anode by a polyvinyl alcohol protection layer via modifying solid-electrolyte interphase layer. <i>Nano Energy</i> , 2019, 64, 103893.	8.2	106
9	A new approach to both high safety and high performance of lithium-ion batteries. <i>Science Advances</i> , 2020, 6, eaay7633.	4.7	83
10	Supremely elastic gel polymer electrolyte enables a reliable electrode structure for silicon-based anodes. <i>Nature Communications</i> , 2019, 10, 5586.	5.8	80
11	Electrokinetic Phenomena Enhanced Lithium-Ion Transport in Leaky Film for Stable Lithium Metal Anodes. <i>Advanced Energy Materials</i> , 2019, 9, 1900704.	10.2	76
12	Superior Performance of a Lithium-Sulfur Battery Enabled by a Dimethyl Trisulfide Containing Electrolyte. <i>Small Methods</i> , 2018, 2, 1800038.	4.6	44
13	Confining Sulfur in Porous Carbon by Vapor Deposition to Achieve High-Performance Cathode for All-Solid-State Lithium-Sulfur Batteries. <i>ACS Energy Letters</i> , 2021, 6, 413-418.	8.8	37
14	A Superior Carbonate Electrolyte for Stable Cycling Li Metal Batteries Using High Ni Cathode. <i>ACS Energy Letters</i> , 2022, 7, 2282-2288.	8.8	32
15	Online state estimation for a physics-based Lithium-Sulfur battery model. <i>Journal of Power Sources</i> , 2021, 489, 229495.	4.0	20
16	Stable metal anodes enabled by a labile organic molecule bonded to a reduced graphene oxide aerogel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 30135-30141.	3.3	17
17	Salt-Based Organic-Inorganic Nanocomposites: Towards A Stable Lithium Metal/Li ₁₀ GeP ₂ S ₁₂ Solid Electrolyte Interface. <i>Angewandte Chemie</i> , 2018, 130, 13796-13800.	1.6	5