

Zhe Weng

List of Publications by Year in descending order

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42
papers

6,193
citations

126907

33
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243625

44
g-index

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all docs

45
docs citations

45
times ranked

9010
citing authors

#	ARTICLE	IF	CITATIONS
1	A non-flammable hydrous organic electrolyte for sustainable zinc batteries. <i>Nature Sustainability</i> , 2022, 5, 205-213.	23.7	277
2	Liquid Metal Remedies Silicon Microparticulates Toward Highly Stable and Superior Volumetric Lithium Storage. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	42
3	A Self-Regulated Interface toward Highly Reversible Aqueous Zinc Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	164
4	Steering surface reconstruction of copper with electrolyte additives for CO ₂ electroreduction. <i>Nature Communications</i> , 2022, 13, .	12.8	47
5	Demonstrating U-shaped zinc deposition with 2D metal-organic framework nanoarrays for dendrite-free zinc batteries. <i>Energy Storage Materials</i> , 2022, 50, 641-647.	18.0	47
6	Suppressing Al dendrite growth towards a long-life Al-metal battery. <i>Energy Storage Materials</i> , 2021, 34, 194-202.	18.0	54
7	Alleviation of Dendrite Formation on Zinc Anodes via Electrolyte Additives. <i>ACS Energy Letters</i> , 2021, 6, 395-403.	17.4	340
8	Interface engineering of earth-abundant Cu/In(OH) ₃ catalysts towards electrochemical reduction of CO ₂ favoring CO selectivity. <i>Journal of CO₂ Utilization</i> , 2021, 46, 101470.	6.8	10
9	Boosting carbon monoxide production during CO ₂ reduction reaction via Cu-Sb ₂ O ₃ interface cooperation. <i>Journal of Colloid and Interface Science</i> , 2021, 601, 661-668.	9.4	10
10	Dense organic molecules/graphene network anodes with superior volumetric and areal performance for asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 461-469.	10.3	30
11	Constructing a High-Strength Solid Electrolyte Layer by In Vivo Alloying with Aluminum for an Ultrahigh-Rate Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2020, 30, 1907343.	14.9	83
12	A Corrosion-Resistant and Dendrite-Free Zinc Metal Anode in Aqueous Systems. <i>Small</i> , 2020, 16, e2001736.	10.0	354
13	An alternative means of advanced energy storage by electrochemical modification. <i>JPhys Energy</i> , 2020, 2, 021006.	5.3	0
14	Electrode thickness matching for achieving high-volumetric-performance lithium-ion capacitors. <i>Energy Storage Materials</i> , 2019, 18, 133-138.	18.0	43
15	Building Carbon-Based Versatile Scaffolds on the Electrode Surface to Boost Capacitive Performance for Fiber Pseudocapacitors. <i>Small</i> , 2019, 15, e1900721.	10.0	26
16	Two-dimensional materials for lithium/sodium-ion capacitors. <i>Materials Today Energy</i> , 2019, 11, 30-45.	4.7	88
17	Graphitic Carbon Nitride Induced Micro-Electric Field for Dendrite-Free Lithium Metal Anodes. <i>Advanced Energy Materials</i> , 2019, 9, 1803186.	19.5	147
18	Active sites of copper-complex catalytic materials for electrochemical carbon dioxide reduction. <i>Nature Communications</i> , 2018, 9, 415.	12.8	527

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19	Unlocking Bifunctional Electrocatalytic Activity for CO ₂ Reduction Reaction by Win-Win Metal-Oxide Cooperation. ACS Energy Letters, 2018, 3, 2816-2822.	17.4	76
20	Solid solution nitride/carbon nanotube hybrids enhance electrocatalysis of oxygen in zinc-air batteries. Energy Storage Materials, 2018, 15, 380-387.	18.0	32
21	Strong Metal-Phosphide Interactions in Core-Shell Geometry for Enhanced Electrocatalysis. Nano Letters, 2017, 17, 2057-2063.	9.1	145
22	Functional metal-organic framework boosting lithium metal anode performance via chemical interactions. Chemical Science, 2017, 8, 4285-4291.	7.4	164
23	Ultrathin dendrimer-graphene oxide composite film for stable cycling lithium-sulfur batteries. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3578-3583.	7.1	90
24	A Targeted Functional Design for Highly Efficient and Stable Cathodes for Rechargeable Li-ion Batteries. Advanced Functional Materials, 2017, 27, 1604903.	14.9	22
25	Electroreduction of CO ₂ Catalyzed by a Heterogenized Zn-Porphyrin Complex with a Redox-Innocent Metal Center. ACS Central Science, 2017, 3, 847-852.	11.3	165
26	Coupled Metal/Oxide Catalysts with Tunable Product Selectivity for Electrocatalytic CO ₂ Reduction. ACS Applied Materials & Interfaces, 2017, 9, 28519-28526.	8.0	83
27	Self-Cleaning Catalyst Electrodes for Stabilized CO ₂ Reduction to Hydrocarbons. Angewandte Chemie, 2017, 129, 13315-13319.	2.0	38
28	Self-Cleaning Catalyst Electrodes for Stabilized CO ₂ Reduction to Hydrocarbons. Angewandte Chemie - International Edition, 2017, 56, 13135-13139.	13.8	126
29	Ferrocene-Promoted Long-Cycle Lithium-Sulfur Batteries. Angewandte Chemie, 2016, 128, 15038-15042.	2.0	11
30	Ferrocene-Promoted Long-Cycle Lithium-Sulfur Batteries. Angewandte Chemie - International Edition, 2016, 55, 14818-14822.	13.8	46
31	Electrochemical CO ₂ Reduction to Hydrocarbons on a Heterogeneous Molecular Cu Catalyst in Aqueous Solution. Journal of the American Chemical Society, 2016, 138, 8076-8079.	13.7	450
32	A highly active and stable hydrogen evolution catalyst based on pyrite-structured cobalt phosphosulfide. Nature Communications, 2016, 7, 10771.	12.8	418
33	Scalable non-liquid-crystal spinning of locally aligned graphene fibers for high-performance wearable supercapacitors. Nano Energy, 2015, 15, 642-653.	16.0	172
34	Metal/Oxide Interface Nanostructures Generated by Surface Segregation for Electrocatalysis. Nano Letters, 2015, 15, 7704-7710.	9.1	233
35	Ternary Hybrid Material for High-Performance Lithium-Sulfur Battery. Journal of the American Chemical Society, 2015, 137, 12946-12953.	13.7	253
36	A smart self-regenerative lithium ion supercapacitor with a real-time safety monitor. Energy Storage Materials, 2015, 1, 146-151.	18.0	28

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37	Monolithic Fe ₂ O ₃ /graphene hybrid for highly efficient lithium storage and arsenic removal. Carbon, 2014, 67, 500-507.	10.3	137
38	An aqueous dissolved polysulfide cathode for lithium-sulfur batteries. Energy and Environmental Science, 2014, 7, 3307-3312.	30.8	131
39	Controlled Electrochemical Charge Injection to Maximize the Energy Density of Supercapacitors. Angewandte Chemie - International Edition, 2013, 52, 3722-3725.	13.8	160
40	The effect of carbon particle morphology on the electrochemical properties of nanocarbon/polyaniline composites in supercapacitors. New Carbon Materials, 2011, 26, 180-186.	6.1	34
41	Graphene-Cellulose Paper Flexible Supercapacitors. Advanced Energy Materials, 2011, 1, 917-922.	19.5	831
42	Synthesis and characterization of ZnO nanostructures by two-step oxidation of Zn nano- and microparticles. Journal of Crystal Growth, 2006, 289, 663-669.	1.5	33