Xiong-Wei Wu

List of Publications by Year
in descending order

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41 papers	2,386 citations	218677 26 h-index	289244 40 g-index
41 all docs	41 docs citations	41 times ranked	2875 citing authors

#	Article	IF	Citations
1	Ambient N2 fixation to NH3 at ambient conditions: Using Nb2O5 nanofiber as a high-performance electrocatalyst. Nano Energy, 2018, 52, 264-270.	16.0	331
2	A trilayer poly(vinylidene fluoride)/polyborate/poly(vinylidene fluoride) gel polymer electrolyte with good performance for lithium ion batteries. Journal of Materials Chemistry A, 2013, 1, 7790.	10.3	166
3	Rational Design of Hydroxylâ€Rich Ti₃C₂T_x MXene Quantum Dots for Highâ€Performance Electrochemical N₂ Reduction. Advanced Energy Materials, 2020, 10, 2000797.	19.5	153
4	Efficient and durable N₂ reduction electrocatalysis under ambient conditions: Î²-FeOOH nanorods as a non-noble-metal catalyst. Chemical Communications, 2018, 54, 11332-11335.	4.1	144
5	Layered Oxide Cathodes Promoted by Structure Modulation Technology for Sodiumâ€Ion Batteries. Advanced Functional Materials, 2020, 30, 2001334.	14.9	142
6	A Highâ€Performance Composite Electrode for Vanadium Redox Flow Batteries. Advanced Energy Materials, 2017, 7, 1700461.	19.5	133
7	Latest Advances in High-Voltage and High-Energy-Density Aqueous Rechargeable Batteries. Electrochemical Energy Reviews, 2021, 4, 1-34.	25.5	120
8	A Flexible Solid Electrolyte with Multilayer Structure for Sodium Metal Batteries. Advanced Energy Materials, 2020, 10, 1903966.	19.5	94
9	Viscoelastic and Nonflammable Interface Designâ€“Enabled Dendriteâ€Free and Safe Solid Lithium Metal Batteries. Advanced Energy Materials, 2019, 9, 1803854.	19.5	93
10	Advances in rechargeable Mg batteries. Journal of Materials Chemistry A, 2020, 8, 25601-25625.	10.3	91
11	Heteroatom-doped electrodes for all-vanadium redox flow batteries with ultralong lifespan. Journal of Materials Chemistry A, 2018, 6, 41-44.	10.3	79
12	Lithiation-Derived Repellent toward Lithium Anode Safeguard in Quasi-solid Batteries. CheM, 2018, 4, 298-307.	11.7	63
13	Hybrid system for rechargeable magnesium battery with high energy density. Scientific Reports, 2015, 5, 11931.	3.3	48
14	Hierarchical Carbon Micro/Nanonetwork with Superior Electrocatalysis for Highâ€Rate and Endurable Vanadium Redox Flow Batteries. Advanced Science, 2018, 5, 1801281.	11.2	48
15	Constructing a Stable Lithium Metalâ€“Gel Electrolyte Interface for Quasi-Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2018, 10, 30065-30070.	8.0	45
16	Nanostructure Design Strategies for Aqueous Zincâ€Ion Batteries. ChemElectroChem, 2020, 7, 2957-2978.	3.4	44
17	Methods to Improve Lithium Metal Anode for Li-S Batteries. Frontiers in Chemistry, 2019, 7, 827.	3.6	43
18	Designing High-Performance Composite Electrodes for Vanadium Redox Flow Batteries: Experimental and Computational Investigation. ACS Applied Materials & Interfaces, 2018, 10, 22381-22388.	8.0	42

#	Article	IF	Citations
19	Carbon sheet-decorated graphite felt electrode with high catalytic activity for vanadium redox flow batteries. Carbon, 2019, 148, 9-15.	10.3	40
20	In Situ Copolymerizated Gel Polymer Electrolyte with Cross-Linked Network for Sodium-Ion Batteries. CCS Chemistry, 2020, 2, 589-597.	7.8	39
21	Promoting electrocatalytic nitrogen reduction to ammonia via Fe-boosted nitrogen activation on MnO₂ surfaces. Journal of Materials Chemistry A, 2020, 8, 13679-13684.	10.3	38
22	Electrode materials for aqueous multivalent metal-ion batteries: Current status and future prospect. Journal of Energy Chemistry, 2022, 67, 563-584.	12.9	36
23	Intrinsic Structure Modification of Electrode Materials for Aqueous Metalâ€Ion and Metalâ€Air Batteries. Advanced Functional Materials, 2021, 31, 2006855.	14.9	36
24	Computational Design of Single Mo Atom Anchored Defective Boron Phosphide Monolayer as a Highâ€performance Electrocatalyst for the Nitrogen Reduction Reaction. Energy and Environmental Materials, 2021, 4, 255-262.	12.8	35
25	A defective g-C₃N₄/RGO/TiO₂composite from hydrogen treatment for enhanced visible-light photocatalytic H₂production. Nanoscale, 2020, 12, 22030-22035.	5.6	31
26	Phosphorus and oxygen co-doped composite electrode with hierarchical electronic and ionic mixed conducting networks for vanadium redox flow batteries. Chemical Communications, 2019, 55, 11515-11518.	4.1	30
27	In Pursuit of a Dendrite-Free Electrolyte/Electrode Interface on Lithium Metal Anodes: A Minireview. Energy & Fuels, 2020, 34, 10503-10512.	5.1	27
28	A Stable Biomassâ€Derived Hard Carbon Anode for Highâ€Performance Sodiumâ€Ion Full Battery. Energy Technology, 2021, 9, 2000730.	3.8	26
29	Recent advancements of functional gel polymer electrolytes for rechargeable lithiumâ€“metal batteries. Materials Chemistry Frontiers, 2021, 5, 5211-5232.	5.9	22
30	Preparation of a porous graphite felt electrode for advance vanadium redox flow batteries. RSC Advances, 2020, 10, 13374-13378.	3.6	20
31	Robust Electrodes with Maximized Spatial Catalysis for Vanadium Redox Flow Batteries. ACS Applied Materials & Interfaces, 2018, 10, 38922-38927.	8.0	19
32	Revealing the Superiority of Fast Ion Conductor in Composite Electrolyte for Dendrite-Free Lithium-Metal Batteries. ACS Applied Materials & Interfaces, 2021, 13, 22978-22986.	8.0	18
33	In Situ Copolymerizated Gel Polymer Electrolyte with Cross-Linked Network for Sodium-Ion Batteries. CCS Chemistry, 2020, 2, 589-597.	7.8	18
34	A simple synthesis of Co3O4@CNT to boost electrochemical nitrogen fixation. Electrochimica Acta, 2021, 367, 137421.	5.2	15
35	Rechargeable quasi-solid-state aqueous hybrid Al3+/H+ battery with 10,000 ultralong cycle stability and smart switching capability. Nano Research, 2021, 14, 4154-4162.	10.4	13
36	Nanomaterials for the electrochemical nitrogen reduction reaction under ambient conditions. Nanoscale Advances, 2021, 3, 5525-5541.	4.6	13

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37	Two-dimensional graphitic carbon nitride/N-doped carbon with a direct Z-scheme heterojunction for photocatalytic generation of hydrogen. Nanoscale Advances, 2021, 3, 6580-6586.	4.6	12
38	Exploiting the synergistic effect of multiphase MnO₂ stabilized by an integrated conducting network for aqueous zinc-ion batteries. Materials Chemistry Frontiers, 2022, 6, 1956-1963.	5.9	7
39	One-step hydrothermal synthesis of Coâ€“Niâ€“S/Ni foam as an electrocatalyst for nitrogen reduction reaction. Materials Today Energy, 2022, 26, 100995.	4.7	6
40	A Superior Flameâ€Resistant and Wideâ€Temperature Adaptable Yarn Lithiumâ€Ion Battery with a Highly Conductive Ionogel Electrolyte. ChemElectroChem, 2020, 7, 3998-4002.	3.4	3
41	Aqueous Nickel-Ion Batteries with Long Lifetime, High Capacity, and High Rate Capability Based on K₂V₆O₁₆Â·1.64H₂O Cathodes. Energy & Fuels, 0, , .	5.1	3