

# Weitao Qiu

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

3,418  
citations

279798

23  
h-index

414414

32  
g-index

34  
all docs

34  
docs citations

34  
times ranked

5524  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in metal nitrides as high-performance electrode materials for energy storage devices. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1364-1387.	10.3	396
2	Updates on the development of nanostructured transition metal nitrides for electrochemical energy storage and water splitting. <i>Materials Today</i> , 2017, 20, 425-451.	14.2	339
3	Enhancing photoelectrochemical water splitting by combining work function tuning and heterojunction engineering. <i>Nature Communications</i> , 2019, 10, 3687.	12.8	300
4	Achieving high gravimetric energy density for flexible lithium-ion batteries facilitated by core-shell double-shell electrodes. <i>Energy and Environmental Science</i> , 2018, 11, 1859-1869.	30.8	216
5	Morphology and Doping Engineering of Sn-Doped Hematite Nanowire Photoanodes. <i>Nano Letters</i> , 2017, 17, 2490-2495.	9.1	204
6	Three-dimensional nickel nitride (Ni <sub>3</sub> N) nanosheets: free standing and flexible electrodes for lithium ion batteries and supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9844-9849.	10.3	203
7	A review of the development of full cell lithium-ion batteries: The impact of nanostructured anode materials. <i>Nano Research</i> , 2016, 9, 2823-2851.	10.4	198
8	A monolithic metal-free electrocatalyst for oxygen evolution reaction and overall water splitting. <i>Energy and Environmental Science</i> , 2016, 9, 3411-3416.	30.8	197
9	Cost-Effective Alkaline Water Electrolysis Based on Nitrogen- and Phosphorus-Doped Self-Supportive Electrocatalysts. <i>Advanced Materials</i> , 2017, 29, 1702095.	21.0	175
10	Three dimensional architectures: design, assembly and application in electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15792-15823.	10.3	135
11	Phase Boundary Derived Pseudocapacitance Enhanced Nickel-Based Composites for Electrochemical Energy Storage Devices. <i>Advanced Energy Materials</i> , 2018, 8, 1701681.	19.5	124
12	Vanadium Nitride Nanowire Supported SnS <sub>2</sub> Nanosheets with High Reversible Capacity as Anode Material for Lithium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 23205-23215.	8.0	115
13	Defect Engineering of Bismuth Oxide by IO <sub>3</sub> <sup>-</sup> Doping for Increasing Charge Transport in Photocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 27859-27867.	8.0	93
14	Zippering Up NiFe(OH)-Encapsulated Hematite To Achieve an Ultralow Turn-On Potential for Water Oxidation. <i>ACS Energy Letters</i> , 2019, 4, 1983-1990.	17.4	82
15	Alkali-modified non-precious metal 3D-NiCo <sub>2</sub> O <sub>4</sub> nanosheets for efficient formaldehyde oxidation at low temperature. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3648-3654.	10.3	81
16	Facile synthesis of FeS <sub>2</sub> nanocrystals and their magnetic and electrochemical properties. <i>RSC Advances</i> , 2013, 3, 6132.	3.6	76
17	Chemically Lithiated TiO <sub>2</sub> Heterostructured Nanosheet Anode with Excellent Rate Capability and Long Cycle Life for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 25991-26003.	8.0	76
18	Encapsulated Vanadium-Based Hybrids in Amorphous N-Doped Carbon Matrix as Anode Materials for Lithium-Ion Batteries. <i>Small</i> , 2017, 13, 1702081.	10.0	70

#	ARTICLE	IF	CITATIONS
19	Freeing the Polarons to Facilitate Charge Transport in BiVO <sub>4</sub> from Oxygen Vacancies with an Oxidative 2D Precursor. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 19087-19095.	13.8	64
20	Harnessing hierarchical architectures to trap light for efficient photoelectrochemical cells. <i>Energy and Environmental Science</i> , 2020, 13, 660-684.	30.8	43
21	Improving the Lithium Storage Properties of Self-Grown Nickel Oxide: A Back-Up from TiO <sub>2</sub> Nanoparticles. <i>ChemElectroChem</i> , 2015, 2, 1243-1248.	3.4	34
22	Heterogeneity between and within Single Hematite Nanorods as Electrocatalysts for Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2022, 144, 5247-5252.	13.7	33
23	Etched current collector-guided creation of wrinkles in steel-mesh-supported V <sub>6</sub> O <sub>13</sub> cathode for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 756-764.	10.3	26
24	Harvesting of Infrared Part of Sunlight to Enhance Polaron Transport and Solar Water Splitting. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	24
25	Dual doping strategy enhanced the lithium storage properties of graphene oxide binary composites. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13431-13438.	10.3	23
26	Freeing the Polarons to Facilitate Charge Transport in BiVO <sub>4</sub> from Oxygen Vacancies with an Oxidative 2D Precursor. <i>Angewandte Chemie</i> , 2019, 131, 19263-19271.	2.0	21
27	Surface functionalized 3D carbon fiber boosts the lithium storage behaviour of transition metal oxide nanowires <i>via</i> strong electronic interaction and tunable adsorption energy. <i>Nanoscale Horizons</i> , 2019, 4, 1402-1410.	8.0	19
28	Enhanced Photoelectrochemical Oxygen Evolution Reaction Ability of Iron-Derived Hematite Photoanode with Titanium Modification. <i>Chemistry - A European Journal</i> , 2015, 21, 19250-19256.	3.3	14
29	3D Hierarchical Nanorod@Nanobowl Array Photoanode with a Tunable Light-Trapping Cutoff and Bottom-Selective Field Enhancement for Efficient Solar Water Splitting. <i>Small</i> , 2019, 15, e1804976.	10.0	14
30	Toward Efficient Charge Collection and Light Absorption: A Perspective of Light Trapping for Advanced Photoelectrodes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18753-18770.	3.1	12
31	Boosting the Photoelectrochemical Water Oxidation at Hematite Photoanode by Innovating a Hierarchical Ball-on-Wire-Array Structure. <i>ACS Applied Energy Materials</i> , 2018, 1, 5836-5841.	5.1	9
32	Water Splitting: 3D Hierarchical Nanorod@Nanobowl Array Photoanode with a Tunable Light-Trapping Cutoff and Bottom-Selective Field Enhancement for Efficient Solar Water Splitting ( <i>Small</i> 14/2019). <i>Small</i> , 2019, 15, 1970074.	10.0	0