

# Zhihua Cheng

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

28  
papers

1,991  
citations

19  
h-index

28  
g-index

28  
ext. papers

2,416  
ext. citations

12.8  
avg, IF

5.11  
L-index

#	Paper	IF	Citations
28	One-step ultrafast laser induced synthesis of strongly coupled 1T-2H MoS <sub>2</sub> /N-rGO quantum-dot heterostructures for enhanced hydrogen evolution. <i>Chemical Engineering Journal</i> , <b>2022</b> , 445, 136618	14.7	1
27	All-pH-Tolerant In-Plane Heterostructures for Efficient Hydrogen Evolution Reaction. <i>ACS Nano</i> , <b>2021</b> ,	16.7	19
26	Hydrogen Peroxide Generation with 100% Faradaic Efficiency on Metal-Free Carbon Black. <i>ACS Catalysis</i> , <b>2021</b> , 11, 2454-2459	13.1	31
25	Tip-Enhanced Multipolar Raman Scattering. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 2464-2469	6.4	22
24	Tip-Enhanced Raman Nanospectroscopy of Smooth Spherical Gold Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 1795-1801	6.4	18
23	Controllable Synthesis of Nanosized Amorphous MoS <sub>x</sub> Using Temporally Shaped Femtosecond Laser for Highly Efficient Electrochemical Hydrogen Production. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806229	15.6	33
22	High Rate Production of Clean Water Based on the Combined Photo-Electro-Thermal Effect of Graphene Architecture. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706805	24	159
21	Electric power generation via asymmetric moisturizing of graphene oxide for flexible, printable and portable electronics. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 1730-1735	35.4	115
20	A Type of 1 nm Molybdenum Carbide Confined within Carbon Nanomesh as Highly Efficient Bifunctional Electrocatalyst. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705967	15.6	58
19	Interactions between Graphene-Based Materials and Water Molecules toward Actuator and Electricity-Generator Applications. <i>Small Methods</i> , <b>2018</b> , 2, 1800108	12.8	23
18	Highly crumpled nanocarbons as efficient metal-free electrocatalysts for zinc-air batteries. <i>Nanoscale</i> , <b>2018</b> , 10, 15706-15713	7.7	17
17	Wood-inspired multi-channel tubular graphene network for high-performance lithium-sulfur batteries. <i>Carbon</i> , <b>2018</b> , 139, 522-530	10.4	13
16	A general synthesis strategy for the multifunctional 3D polypyrrole foam of thin 2D nanosheets. <i>Frontiers of Materials Science</i> , <b>2018</b> , 12, 105-117	2.5	2
15	A Cut-Resistant and Highly Restorable Graphene Foam. <i>Small</i> , <b>2018</b> , 14, e1801916	11	7
14	Wall-Mesoporous Graphitic Carbon Nitride Nanotubes for Efficient Photocatalytic Hydrogen Evolution. <i>Chemistry - an Asian Journal</i> , <b>2018</b> , 13, 3160-3164	4.5	18
13	Significant Enhancement of Visible-Light-Driven Hydrogen Evolution by Structure Regulation of Carbon Nitrides. <i>ACS Nano</i> , <b>2018</b> , 12, 5221-5227	16.7	134
12	Self-powered wearable graphene fiber for information expression. <i>Nano Energy</i> , <b>2017</b> , 32, 329-335	17.1	88

11	Mesh-on-Mesh Graphitic-C <sub>3</sub> N <sub>4</sub> @Graphene for Highly Efficient Hydrogen Evolution. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1606352	15.6	115
10	Interconnected Molybdenum Carbide-Based Nanoribbons for Highly Efficient and Ultrastable Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 24608-24615	9.5	30
9	Functional Carbon Nanomesh Clusters. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701514	15.6	18
8	A 2D free-standing film-inspired electrocatalyst for highly efficient hydrogen production. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 12027-12033	13	23
7	Preparation of Monolayer MoS Quantum Dots using Temporally Shaped Femtosecond Laser Ablation of Bulk MoS Targets in Water. <i>Scientific Reports</i> , <b>2017</b> , 7, 11182	4.9	99
6	A Responsive Battery with Controlled Energy Release. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 14643-14647	16.4	31
5	A Responsive Battery with Controlled Energy Release. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 14863-14867	3.6	15
4	Atomically Thin Mesoporous Nanomesh of Graphitic CNIT for High-Efficiency Photocatalytic Hydrogen Evolution. <i>ACS Nano</i> , <b>2016</b> , 10, 2745-51	16.7	701
3	Superelastic, Macroporous Polystyrene-Mediated Graphene Aerogels for Active Pressure Sensing. <i>Chemistry - an Asian Journal</i> , <b>2016</b> , 11, 1071-5	4.5	32
2	High-Density Monolith of N-Doped Holey Graphene for Ultrahigh Volumetric Capacity of Li-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1502100	21.8	142
1	Controllable localization of carbon nanotubes on the holey edge of graphene: an efficient oxygen reduction electrocatalyst for Zn  air batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 18240-18247	13	27