Weiran Zheng

List of Publications by Year
in descending order

39 papers	2,224 citations	257450 24 h-index	289244 40 g-index
43 all docs	43 docs citations	43 times ranked	2976 citing authors

#	Article	IF	Citations
1	Morphologyâ€Dependent Interactions of ZnO with Cu Nanoparticles at the Materialsâ€™ Interface in Selective Hydrogenation of CO₂ to CH₃OH. Angewandte Chemie - International Edition, 2011, 50, 2162-2165.	13.8	359
2	Electrochemical Instability of Metalâ€“Organic Frameworks: In Situ Spectroelectrochemical Investigation of the Real Active Sites. ACS Catalysis, 2020, 10, 81-92.	11.2	248
3	Metalâ€“Organic Frameworks for Electrocatalysis: Catalyst or Precatalyst?. ACS Energy Letters, 2021, 6, 2838-2843.	17.4	171
4	Interface engineered NiFe2O4â^'x/NiMoO4 nanowire arrays for electrochemical oxygen evolution. Applied Catalysis B: Environmental, 2021, 286, 119857.	20.2	138
5	Ni/Co-based nanosheet arrays for efficient oxygen evolution reaction. Nano Energy, 2018, 52, 360-368.	16.0	135
6	Best Practices in Using Foam-Type Electrodes for Electrocatalytic Performance Benchmark. ACS Energy Letters, 2020, 5, 3260-3264.	17.4	112
7	Two-dimensional metal-organic framework and covalent-organic framework: synthesis and their energy-related applications. Materials Today Chemistry, 2019, 12, 34-60.	3.5	105
8	Copper nanoparticles/polyaniline/graphene composite as a highly sensitive electrochemical glucose sensor. Journal of Electroanalytical Chemistry, 2016, 781, 155-160.	3.8	92
9	Overall Waterâ€Splitting Electrocatalysts Based on 2D Coâ€Metalâ€Organic Frameworks and Its Derivative. Advanced Materials Interfaces, 2018, 5, 1800849.	3.7	66
10	Interface Engineering of a 2D-C₃N₄/NiFe-LDH Heterostructure for Highly Efficient Photocatalytic Hydrogen Evolution. ACS Applied Materials & Interfaces, 2021, 13, 24723-24733.	8.0	54
11	Improving the performance stability of direct seawater electrolysis: from catalyst design to electrode engineering. Nanoscale, 2021, 13, 15177-15187.	5.6	48
12	Highly Enhanced Pseudocapacitive Performance of Vanadiumâ€Doped MXenes in Neutral Electrolytes. Small, 2019, 15, e1902649.	10.0	46
13	Laserâ€Assisted Ultrafast Exfoliation of Black Phosphorus in Liquid with Tunable Thickness for Liâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 1903490.	19.5	39
14	Enhanced photocatalytic hydrogen evolution from water by niobate single molecular sheets and ensembles. Chemical Communications, 2014, 50, 13702-13705.	4.1	37
15	A tunable metalâ€“polyaniline interface for efficient carbon dioxide electro-reduction to formic acid and methanol in aqueous solution. Chemical Communications, 2016, 52, 13901-13904.	4.1	36
16	Quantitative Differences in Sulfur Poisoning Phenomena over Ruthenium and Palladium: An Attempt To Deconvolute Geometric and Electronic Poisoning Effects Using Model Catalysts. ACS Catalysis, 2017, 7, 592-605.	11.2	34
17	Use of carbon supports with copper ion as a highly sensitive non-enzymatic glucose sensor. Sensors and Actuators B: Chemical, 2019, 282, 187-196.	7.8	33
18	Beyond sonication: Advanced exfoliation methods for scalable production of 2D materials. Matter, 2022, 5, 515-545.	10.0	33

#	Article	IF	Citations
19	Surface Engineering of MoS₂ via Laserâ€Induced Exfoliation in Protic Solvents. Small, 2019, 15, e1903791.	10.0	28
20	Copper phosphosulfides as a highly active and stable photocatalyst for hydrogen evolution reaction. Applied Catalysis B: Environmental, 2020, 273, 118927.	20.2	28
21	Palladium on iron oxide nanoparticles: the morphological effect of the support in glycerol hydrogenolysis. Green Chemistry, 2013, 15, 2064.	9.0	25
22	Cu²⁺â€doped Carbon Nitride/MWCNT as an Electrochemical Glucose Sensor. Electroanalysis, 2018, 30, 1446-1454.	2.9	25
23	Insights into the transition metal ion-mediated electrooxidation of glucose in alkaline electrolyte. Electrochimica Acta, 2019, 308, 9-19.	5.2	25
24	Blue ordered/disordered Janus-type TiO₂ nanoparticles for enhanced photocatalytic hydrogen generation. Journal of Materials Chemistry A, 2020, 8, 22828-22839.	10.3	24
25	TiO2 film supported by vertically aligned gold nanorod superlattice array for enhanced photocatalytic hydrogen evolution. Chemical Engineering Journal, 2021, 417, 127900.	12.7	23
26	Temperature and Solvent-Dependent Morphological Sol Gel Transformation: An in Situ microscopic observation. Langmuir, 2010, 26, 3106-3114.	3.5	22
27	Cu^{II}â€Mediated Ultraâ€efficient Electrooxidation of Glucose. ChemElectroChem, 2017, 4, 2788-2792.	3.4	20
28	Electroreduction of Carbon Dioxide to Formic Acid and Methanol over a Palladium/Polyaniline Catalyst in Acidic Solution: A Study of the Palladium Size Effect. Energy Technology, 2017, 5, 937-944.	3.8	18
29	Dual doping effects (site blockage and electronic promotion) imposed by adatoms on Pd nanocrystals for catalytic hydrogen production. Chemical Communications, 2015, 51, 46-49.	4.1	17
30	Probing the Size and Shape Effects of Cubicâ€and Sphericalâ€Shaped Palladium Nanoparticles in the Electrooxidation of Formic Acid. ChemCatChem, 2015, 7, 3826-3831.	3.7	15
31	Highly efficient stepwise electrochemical degradation of antibiotics in water by in situ formed Cu(OH)2 nanowires. Applied Catalysis B: Environmental, 2019, 256, 117824.	20.2	15
32	Bismuth and metal-doped bismuth nanoparticles produced by laser ablation for electrochemical glucose sensing. Sensors and Actuators B: Chemical, 2022, 357, 131334.	7.8	11
33	Observing Electrocatalytic Processes via In Situ Electrochemical Scanning Tunneling Microscopy: Latest Advances. Chemistry - an Asian Journal, 2022, 17, .	3.3	9
34	Fewâ€Layer Tellurium: Cathodic Exfoliation and Doping for Collaborative Hydrogen Evolution. Small, 2021, 17, e2007768.	10.0	8
35	Stabilizer-free bismuth nanoparticles for selective polyol electrooxidation. IScience, 2021, 24, 102342.	4.1	8
36	Photo and electronic excitation for low temperature catalysis over metal nanoparticles using an organic semiconductor. RSC Advances, 2014, 4, 47488-47496.	3.6	6

#	Article	IF	Citations
37	Water-Splitting: Overall Water-Splitting Electrocatalysts Based on 2D CoNi-Metal-Organic Frameworks and Its Derivative (Adv. Mater. Interfaces 21/2018). Advanced Materials Interfaces, 2018, 5, 1870106.	3.7	1
38	Front Cover: Observing Electrocatalytic Processes via In Situ Electrochemical Scanning Tunneling Microscopy: Latest Advances (Chem. Asian J. 15/2022). Chemistry - an Asian Journal, 2022, 17, .	3.3	1
39	(Invited) Laser-Assisted Exfoliation of Black Phosphorus with Thickness Control for Li-Ion Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 349-349.	0.0	0