

Hong-Yan Wang

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

2,137
citations

361413

20
h-index

414414

32
g-index

33
all docs

33
docs citations

33
times ranked

2560
citing authors

#	ARTICLE	IF	CITATIONS
1	A Highly Efficient Photocatalytic System for Hydrogen Production by a Robust Hydrogenase Mimic in an Aqueous Solution. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3193-3197.	13.8	315
2	Porphyrin-based frameworks for oxygen electrocatalysis and catalytic reduction of carbon dioxide. <i>Chemical Society Reviews</i> , 2021, 50, 2540-2581.	38.1	249
3	Porous Nickel-Iron Oxide as a Highly Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Advanced Science</i> , 2015, 2, 1500199.	11.2	241
4	Artificial Photosynthetic Systems Based on [FeFe]-Hydrogenase Mimics: the Road to High Efficiency for Light-Driven Hydrogen Evolution. <i>ACS Catalysis</i> , 2012, 2, 407-416.	11.2	175
5	Photocatalytic Hydrogen Evolution from Rhenium(I) Complexes to [FeFe] Hydrogenase Mimics in Aqueous SDS Micellar Systems: A Biomimetic Pathway. <i>Langmuir</i> , 2010, 26, 9766-9771.	3.5	124
6	Water Oxidation Catalyzed by a Dinuclear Cobalt-Polypyridine Complex. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14499-14502.	13.8	114
7	O-O bond formation mechanisms during the oxygen evolution reaction over synthetic molecular catalysts. <i>Chinese Journal of Catalysis</i> , 2021, 42, 1253-1268.	14.0	86
8	Dendrobium huoshanense polysaccharide regulates hepatic glucose homeostasis and pancreatic β -cell function in type 2 diabetic mice. <i>Carbohydrate Polymers</i> , 2019, 211, 39-48.	10.2	73
9	Photocatalytic Hydrogen Evolution by [FeFe] Hydrogenase Mimics in Homogeneous Solution. <i>Chemistry - an Asian Journal</i> , 2010, 5, 1796-1803.	3.3	72
10	A Water-Soluble Copper-Polypyridine Complex as a Homogeneous Catalyst for both Photo-Induced and Electrocatalytic O_2 Evolution. <i>Chemistry - A European Journal</i> , 2016, 22, 1602-1607.	3.3	70
11	Photocatalytic hydrogen production from a simple water-soluble [FeFe]-hydrogenase model system. <i>Chemical Communications</i> , 2012, 48, 8081.	4.1	68
12	Facile Synthesis and Functionality-Dependent Electrochemistry of Fe-Only Hydrogenase Mimics. <i>Inorganic Chemistry</i> , 2008, 47, 8101-8111.	4.0	55
13	Electron transfer and hydrogen generation from a molecular dyad: platinum(ii) alkynyl complex anchored to [FeFe] hydrogenase subsite mimic. <i>Dalton Transactions</i> , 2012, 41, 2420.	3.3	55
14	Fluorophenyl-substituted Fe-only hydrogenases active site ADT models: different electrocatalytic process for proton reduction in HOAc and HBF ₄ /Et ₂ O. <i>Dalton Transactions</i> , 2009, , 2712.	3.3	51
15	A triad [FeFe] hydrogenase system for light-driven hydrogen evolution. <i>Chemical Communications</i> , 2011, 47, 8406.	4.1	50
16	Water splitting based on homogeneous copper molecular catalysts. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 355, 141-151.	3.9	41
17	Ligand modification to stabilize the cobalt complexes for water oxidation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 29716-29724.	7.1	30
18	Hydrogen production in a neutral aqueous solution with a water-soluble copper complex. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 4202-4207.	7.1	22

#	ARTICLE	IF	CITATIONS
19	Highly efficient and selective photocatalytic CO ₂ reduction based on water-soluble CdS QDs modified by the mixed ligands in one pot. <i>Catalysis Science and Technology</i> , 2020, 10, 2821-2829.	4.1	21
20	Thin Copper-Based Film for Efficient Electrochemical Hydrogen Production from Neutral Aqueous Solutions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7496-7501.	6.7	20
21	Cobalt(II)â€‘Salen Complexes for Photocatalytic Hydrogen Production in Noble Metal-Free Molecular Systems. <i>Catalysis Letters</i> , 2018, 148, 3158-3164.	2.6	18
22	Visible light-driven carbon-carbon reductive coupling of aromatic ketones activated by Ni-doped CdS quantum dots: An insight into the mechanism. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 120946.	20.2	15
23	A Ruâ€‘Co hybrid material based on a molecular photosensitizer and a heterogeneous catalyst for light-driven water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3661.	2.8	12
24	Tri-functional molecular relay to fabricate size-controlled CoO _x nanoparticles and WO ₃ photoanode for an efficient photoelectrochemical water oxidation. <i>Catalysis Science and Technology</i> , 2020, 10, 5677-5687.	4.1	10
25	Boosting photoanodic activity for water splitting in carbon dots aqueous solution without any traditional supporting electrolyte. <i>Applied Catalysis B: Environmental</i> , 2021, 296, 120378.	20.2	10
26	A Hybrid Assembly with Nickel Polyâ€‘Pyridine Polymer on CdS Quantum Dots for Photoâ€‘Reducing CO ₂ into Syngas with Controlled H ₂ /CO Ratios. <i>ChemSusChem</i> , 2022, 15, .	6.8	10
27	Light-driven hydrogen evolution system with glutamic-acid-modified zinc porphyrin as photosensitizer and [FeFe]-hydrogenase model as catalyst. <i>Pure and Applied Chemistry</i> , 2013, 85, 1405-1413.	1.9	7
28	Photo-electrocatalytic water oxidation based on an earth-abundant metallic semiconductor-molecule hybrid photoanode. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 31884-31891.	7.1	7
29	Water Splitting: Porous Nickel-Iron Oxide as a Highly Efficient Electrocatalyst for Oxygen Evolution Reaction (<i>Adv. Sci.</i> 10/2015). <i>Advanced Science</i> , 2015, 2, .	11.2	6
30	Amphiphilic micellar CdSe QD as microreactors to self-assemble nickel complexes for photosynthetic hydrogen evolution in water. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 20079-20084.	7.1	1