

Hong Bin Yang

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.

41
papers

4,603
citations

22
h-index

42
g-index

42
ext. papers

5,759
ext. citations

14.4
avg, IF

5.5
L-index

#	Paper	IF	Citations
41	Strong Metal-Support Interaction Boosts Activity, Selectivity, and Stability in Electrosynthesis of HO ₂ . <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	10
40	Polarization Engineering of Covalent Triazine Frameworks for Highly Efficient Photosynthesis of Hydrogen Peroxide from Molecular Oxygen and Water.. <i>Advanced Materials</i> , 2022 , e2110266	24	6
39	Electrochemical looping hydrogen production at room temperature. <i>Chem Catalysis</i> , 2021 , 1, 1365-1366		1
38	Boron-Nitrogen-Co-Doping Nanocarbons to Create Rich Electroactive Defects toward Simultaneous Sensing Hydroquinone and Catechol. <i>Electrochimica Acta</i> , 2021 , 139427	6.7	4
37	Single-Atom Ruthenium Biomimetic Enzyme for Simultaneous Electrochemical Detection of Dopamine and Uric Acid. <i>Analytical Chemistry</i> , 2021 , 93, 4916-4923	7.8	34
36	Three-dimensional cell-adhesive matrix of silk cocoon derived carbon fiber assembled with iron-porphyrin for monitoring cell released signal molecules. <i>Sensors and Actuators B: Chemical</i> , 2021 , 334, 129594	8.5	6
35	Atomically Dispersed Co to an End-Adsorbing Molecule for Excellent Biomimetically and Prime Sensitively Detecting O ₂ Released from Living Cells. <i>Analytical Chemistry</i> , 2021 , 93, 10789-10797	7.8	2
34	Orbital coupling of hetero-diatomic nickel-iron site for bifunctional electrocatalysis of CO reduction and oxygen evolution. <i>Nature Communications</i> , 2021 , 12, 4088	17.4	51
33	Steric shelter-free cobalt nanoparticle-based high-sensitive biomimetic superoxide anion sensor. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 6860-6864	7.8	1
32	Precise Tuning of Bimetallic Electronic Effect for Boosting Oxygen Reduction Catalysis. <i>Nano Letters</i> , 2021 , 21, 7753-7760	11.5	4
31	Advances in Thermodynamic-Kinetic Model for Analyzing the Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2020 , 10, 8597-8610	13.1	40
30	Elucidating the Electrocatalytic CO Reduction Reaction over a Model Single-Atom Nickel Catalyst. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 798-803	16.4	187
29	Elucidating the Electrocatalytic CO ₂ Reduction Reaction over a Model Single-Atom Nickel Catalyst. <i>Angewandte Chemie</i> , 2020 , 132, 808-813	3.6	22
28	Innentitelbild: Elucidating the Electrocatalytic CO ₂ Reduction Reaction over a Model Single-Atom Nickel Catalyst (Angew. Chem. 2/2020). <i>Angewandte Chemie</i> , 2020 , 132, 518-518	3.6	1
27	Coordination engineering of iridium nanocluster bifunctional electrocatalyst for highly efficient and pH-universal overall water splitting. <i>Nature Communications</i> , 2020 , 11, 4246	17.4	92
26	Single-Atom Cobalt-Based Electrochemical Biomimetic Uric Acid Sensor with Wide Linear Range and Ultralow Detection Limit. <i>Nano-Micro Letters</i> , 2020 , 13, 7	19.5	26
25	Layered Structure Causes Bulk NiFe Layered Double Hydroxide Unstable in Alkaline Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2019 , 31, e1903909	24	142

24	Bifunctional N-CoSe ₂ /3D-MXene as Highly Efficient and Durable Cathode for Rechargeable Zn//Air Battery 2019 , 1, 432-439		49
23	Selective photoelectrochemical oxidation of glycerol to high value-added dihydroxyacetone. <i>Nature Communications</i> , 2019 , 10, 1779	17.4	83
22	3D Pt/Graphene foam bioplatform for highly sensitive and selective in-situ adsorption and detection of superoxide anions released from living cells. <i>Sensors and Actuators B: Chemical</i> , 2019 , 287, 209-217	8.5	19
21	Atomically dispersed Ni(i) as the active site for electrochemical CO ₂ reduction. <i>Nature Energy</i> , 2018 , 3, 140-147	62.3	1046
20	High Spin State Promotes Water Oxidation Catalysis at Neutral pH in Spinel Cobalt Oxide. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 1441-1445	3.9	19
19	Nitrogen and sulfur Co-doped graphene inlaid with cobalt clusters for efficient oxygen reduction reaction. <i>Materials Today Energy</i> , 2018 , 10, 184-190	7	15
18	Identification of Surface Reactivity Descriptor for Transition Metal Oxides in Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9978-85	16.4	232
17	Identification of catalytic sites for oxygen reduction and oxygen evolution in N-doped graphene materials: Development of highly efficient metal-free bifunctional electrocatalyst. <i>Science Advances</i> , 2016 , 2, e1501122	14.3	884
16	Tunneling Interlayer for Efficient Transport of Charges in Metal Oxide Electrodes. <i>Journal of the American Chemical Society</i> , 2016 , 138, 3183-9	16.4	34
15	Surface Rutilization of Anatase TiO ₂ Nanorods for Creation of Synergistically Bridging and Fencing Electron Highways. <i>Advanced Functional Materials</i> , 2016 , 26, 456-465	15.6	42
14	Carbon nanotube catalysts: recent advances in synthesis, characterization and applications. <i>Chemical Society Reviews</i> , 2015 , 44, 3295-346	58.5	477
13	Hierarchical Ni-Mo-S nanosheets on carbon fiber cloth: A flexible electrode for efficient hydrogen generation in neutral electrolyte. <i>Science Advances</i> , 2015 , 1, e1500259	14.3	356
12	One-Step Hydrothermal Tailoring of NiCo ₂ S ₄ Nanostructures on Conducting Oxide Substrates as an Efficient Counter Electrode in Dye-Sensitized Solar Cells. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500384	4.6	72
11	Cesium carbonate functionalized graphene quantum dots as stable electron-selective layer for improvement of inverted polymer solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 1092-9	9.5	70
10	Stable quantum dot photoelectrolysis cell for unassisted visible light solar water splitting. <i>ACS Nano</i> , 2014 , 8, 10403-13	16.7	147
9	Biomolecule-assisted synthesis of carbon nitride and sulfur-doped carbon nitride heterojunction nanosheets: An efficient heterojunction photocatalyst for photoelectrochemical applications. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 770-7	3	12
8	One-Step Fabrication of Unique Mesoporous NiO Hollow Sphere Film on FTO for High-Performance P-Type Dye-Sensitized Solar Cells. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300110	4.6	6
7	Graphene Quantum Dots as a Green Sensitizer to Functionalize ZnO Nanowire Arrays on F-Doped SnO ₂ Glass for Enhanced Photoelectrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2013 , 3, 997-1003	21.8	174

6	Photonic Crystal Fiber Surface Plasmon Resonance Biosensor Based on Protein G Immobilization. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 4602107-4602107	3.8	37
5	Carbon-Based Dots Co-doped with Nitrogen and Sulfur for High Quantum Yield and Excitation-Independent Emission. <i>Angewandte Chemie</i> , 2013 , 125, 7954-7958	3.6	145
4	Long-range exciton dissociation in layered organic solar cells. <i>Journal of Renewable and Sustainable Energy</i> , 2009 , 1, 063105	2.5	4
3	New architecture for accurate characterization of the behavior of individual sub-cells within a tandem organic solar cell. <i>Energy and Environmental Science</i> , 2008 , 1, 389	35.4	19
2	Solution-processable organic-capped titanium oxide nanoparticle dielectrics for organic thin-film transistors. <i>Applied Physics Letters</i> , 2008 , 93, 113304	3.4	21
1	Recent Advances in Carbon-Supported Noble-Metal Electrocatalysts for Hydrogen Evolution Reaction: Syntheses, Structures, and Properties. <i>Advanced Energy Materials</i> , 2200928	21.8	7