

# Hong Bin Yang

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6144603/hong-bin-yang-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Atomically dispersed Ni(i) as the active site for electrochemical CO <sub>2</sub> reduction. <i>Nature Energy</i> , <b>2018</b> , 3, 140-147	62.3	1046
40	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> , <b>2016</b> , 2, e1501122	14.3	884
39	Carbon nanotube catalysts: recent advances in synthesis, characterization and applications. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 3295-346	58.5	477
38	Hierarchical Ni-Mo-S nanosheets on carbon fiber cloth: A flexible electrode for efficient hydrogen generation in neutral electrolyte. <i>Science Advances</i> , <b>2015</b> , 1, e1500259	14.3	356
37	Identification of Surface Reactivity Descriptor for Transition Metal Oxides in Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 9978-85	16.4	232
36	Elucidating the Electrocatalytic CO Reduction Reaction over a Model Single-Atom Nickel Catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 798-803	16.4	187
35	Graphene Quantum Dots as a Green Sensitizer to Functionalize ZnO Nanowire Arrays on F-Doped SnO <sub>2</sub> Glass for Enhanced Photoelectrochemical Water Splitting. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 997-1003	21.8	174
34	Stable quantum dot photoelectrolysis cell for unassisted visible light solar water splitting. <i>ACS Nano</i> , <b>2014</b> , 8, 10403-13	16.7	147
33	Carbon-Based Dots Co-doped with Nitrogen and Sulfur for High Quantum Yield and Excitation-Independent Emission. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 7954-7958	3.6	145
32	Layered Structure Causes Bulk NiFe Layered Double Hydroxide Unstable in Alkaline Oxygen Evolution Reaction. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903909	24	142
31	Coordination engineering of iridium nanocluster bifunctional electrocatalyst for highly efficient and pH-universal overall water splitting. <i>Nature Communications</i> , <b>2020</b> , 11, 4246	17.4	92
30	Selective photoelectrochemical oxidation of glycerol to high value-added dihydroxyacetone. <i>Nature Communications</i> , <b>2019</b> , 10, 1779	17.4	83
29	One-Step Hydrothermal Tailoring of NiCo <sub>2</sub> S <sub>4</sub> Nanostructures on Conducting Oxide Substrates as an Efficient Counter Electrode in Dye-Sensitized Solar Cells. <i>Advanced Materials Interfaces</i> , <b>2015</b> , 2, 1500384	4.6	72
28	Cesium carbonate functionalized graphene quantum dots as stable electron-selective layer for improvement of inverted polymer solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 1092-9	9.5	70
27	Orbital coupling of hetero-diatomic nickel-iron site for bifunctional electrocatalysis of CO reduction and oxygen evolution. <i>Nature Communications</i> , <b>2021</b> , 12, 4088	17.4	51
26	Bifunctional N-CoSe <sub>2</sub> /3D-MXene as Highly Efficient and Durable Cathode for Rechargeable Zn  Air Battery <b>2019</b> , 1, 432-439		49
25	Surface Rutilization of Anatase TiO <sub>2</sub> Nanorods for Creation of Synergistically Bridging and Fencing Electron Highways. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 456-465	15.6	42

24	Advances in Thermodynamic-Kinetic Model for Analyzing the Oxygen Evolution Reaction. <i>ACS Catalysis</i> , <b>2020</b> , 10, 8597-8610	13.1	40
23	Photonic Crystal Fiber Surface Plasmon Resonance Biosensor Based on Protein G Immobilization. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2013</b> , 19, 4602107-4602107	3.8	37
22	Tunneling Interlayer for Efficient Transport of Charges in Metal Oxide Electrodes. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 3183-9	16.4	34
21	Single-Atom Ruthenium Biomimetic Enzyme for Simultaneous Electrochemical Detection of Dopamine and Uric Acid. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 4916-4923	7.8	34
20	Single-Atom Cobalt-Based Electrochemical Biomimetic Uric Acid Sensor with Wide Linear Range and Ultralow Detection Limit. <i>Nano-Micro Letters</i> , <b>2020</b> , 13, 7	19.5	26
19	Elucidating the Electrocatalytic CO <sub>2</sub> Reduction Reaction over a Model Single-Atom Nickel Catalyst. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 808-813	3.6	22
18	Solution-processable organic-capped titanium oxide nanoparticle dielectrics for organic thin-film transistors. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 113304	3.4	21
17	High Spin State Promotes Water Oxidation Catalysis at Neutral pH in Spinel Cobalt Oxide. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 1441-1445	3.9	19
16	New architecture for accurate characterization of the behavior of individual sub-cells within a tandem organic solar cell. <i>Energy and Environmental Science</i> , <b>2008</b> , 1, 389	35.4	19
15	3D Pt/Graphene foam bioplatfrom for highly sensitive and selective in-situ adsorption and detection of superoxide anions released from living cells. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 287, 209-217	8.5	19
14	Nitrogen and sulfur Co-doped graphene inlaid with cobalt clusters for efficient oxygen reduction reaction. <i>Materials Today Energy</i> , <b>2018</b> , 10, 184-190	7	15
13	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> , <b>2014</b> , 5, 770-7	3	12
12	Strong Metal-Support Interaction Boosts Activity, Selectivity, and Stability in Electrosynthesis of HO <sub>2</sub> . <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	10
11	Recent Advances in Carbon-Supported Noble-Metal Electrocatalysts for Hydrogen Evolution Reaction: Syntheses, Structures, and Properties. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2200928	21.8	7
10	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> , <b>2014</b> , 1, 1300110	4.6	6
9	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> , <b>2021</b> , 334, 129594	8.5	6
8	Polarization Engineering of Covalent Triazine Frameworks for Highly Efficient Photosynthesis of Hydrogen Peroxide from Molecular Oxygen and Water.. <i>Advanced Materials</i> , <b>2022</b> , e2110266	24	6
7	Long-range exciton dissociation in layered organic solar cells. <i>Journal of Renewable and Sustainable Energy</i> , <b>2009</b> , 1, 063105	2.5	4

6	Boron-Nitrogen-Co-Doping Nanocarbons to Create Rich Electroactive Defects toward Simultaneous Sensing Hydroquinone and Catechol. <i>Electrochimica Acta</i> , <b>2021</b> , 139427	6.7	4
5	Precise Tuning of Bimetallic Electronic Effect for Boosting Oxygen Reduction Catalysis. <i>Nano Letters</i> , <b>2021</b> , 21, 7753-7760	11.5	4
4	Atomically Dispersed Co to an End-Adsorbing Molecule for Excellent Biomimetically and Prime Sensitively Detecting O Released from Living Cells. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 10789-10797	7.8	2
3	Electrochemical looping hydrogen production at room temperature. <i>Chem Catalysis</i> , <b>2021</b> , 1, 1365-1366		1
2	Innentitelbild: Elucidating the Electrocatalytic CO <sub>2</sub> Reduction Reaction over a Model Single-Atom Nickel Catalyst (Angew. Chem. 2/2020). <i>Angewandte Chemie</i> , <b>2020</b> , 132, 518-518	3.6	1
1	Steric shelter-free cobalt nanoparticle-based high-sensitive biomimetic superoxide anion sensor. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 6860-6864	7.8	1