

# Zebin Yu

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/5074415/zebin-yu-publications-by-year.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.

75  
papers

2,145  
citations

23  
h-index

44  
g-index

78  
ext. papers

2,994  
ext. citations

8.4  
avg, IF

5.38  
L-index

#	Paper	IF	Citations
75	Chlortetracycline degradation performance and mechanism in the self-biased bio-photoelectrochemical system constructed with an oxygen-defect-rich BiVO <sub>4</sub> /NiS photoanode.. <i>Chemosphere</i> , <b>2022</b> , 133787	8.4	1
74	Lattice distortion of crystalline-amorphous nickel molybdenum sulfide nanosheets for high-efficiency overall water splitting: libraries of lone pairs of electrons and surface reconstitution.. <i>Nanoscale</i> , <b>2022</b> ,	7.7	2
73	Recent advances in the treatment of contaminated soils by ball milling technology: Classification, mechanisms, and applications. <i>Journal of Cleaner Production</i> , <b>2022</b> , 340, 130821	10.3	2
72	Levofloxacin degradation performance and mechanism in the novel electro-Fenton system constructed with vanadium oxide electrodes under neutral pH. <i>Chemical Engineering Journal</i> , <b>2022</b> , 433, 133574	14.7	0
71	N, S co-doped carbon quantum dots anchoring on copper-vacancy-rich Cu nanowires/Cu foam as the cathode in microbial fuel cells: Role of C-S-Cu active site. <i>Science of the Total Environment</i> , <b>2022</b> , 805, 150340	10.2	1
70	B-doped graphene quantum dots implanted into bimetallic organic framework as a highly active and robust cathodic catalyst in the microbial fuel cell. <i>Chemosphere</i> , <b>2022</b> , 286, 131908	8.4	5
69	Simultaneous reclaiming phosphate and ammonium from aqueous solutions by calcium alginate-biochar composite: Sorption performance and governing mechanisms. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132166	14.7	9
68	S-scheme $\pi$ - $\pi$ phase MoSe <sub>2</sub> /AgBr heterojunction toward antibiotic degradation: Photocatalytic mechanism, degradation pathways, and intermediates toxicity evaluation. <i>Separation and Purification Technology</i> , <b>2022</b> , 290, 120881	8.3	2
67	Hydroxyl radical and carbonate radical facilitate chlortetracycline degradation in the bio-photoelectrochemical system with a bioanode and a BiO/CuO photocathode using bicarbonate buffer.. <i>Chemosphere</i> , <b>2022</b> , 296, 134040	8.4	0
66	Environmental behaviors and degradation methods of microplastics in different environmental media.. <i>Chemosphere</i> , <b>2022</b> , 134354	8.4	5
65	A new type of photoinduced Anion-Exchange Approach: MOF-Derived Cobalt-Based sulfide enables spatial separation of catalytic sites for efficient H <sub>2</sub> photoproduction. <i>Separation and Purification Technology</i> , <b>2022</b> , 294, 121200	8.3	1
64	Application of biochar immobilized microorganisms for pollutants removal from wastewater: A review.. <i>Science of the Total Environment</i> , <b>2022</b> , 837, 155563	10.2	0
63	Physical separation of catalytic oxidation and reduction sites onto photocatalyst assisted by surface functional groups for enhanced hydrogen evolution. <i>Journal of Cleaner Production</i> , <b>2021</b> , 324, 129259	10.3	2
62	Synchronous removal of tetracycline and copper (II) over Z-scheme BiVO <sub>4</sub> /rGO/g-CN photocatalyst under visible-light irradiation. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	3
61	Metal organic frameworks constructed heterojunction with BiS-BiS/CdS: The effect of organic-ligand in UiO-66 for charge transfer of photocatalytic hydrogen evolution. <i>Renewable Energy</i> , <b>2021</b> , 168, 1112-1121	8.1	17
60	Activation Strategy of WS <sub>2</sub> as an Efficient Photocatalytic Hydrogen Evolution Cocatalyst through Co <sup>2+</sup> Doping to Adjust the Highly Exposed Active (100) Facet. <i>Solar Rrl</i> , <b>2021</b> , 5, 2100223	7.1	7
59	3D-Stretched Film Ni S Nanosheet/Macromolecule Anthraquinone Derivative Polymers for Electrocatalytic Overall Water Splitting. <i>Small</i> , <b>2021</b> , 17, e2101003	11	3

58	Copper vacancy and CO bond facilitate the enhancement of oxygen reduction activity of three-dimensional flower-like Cu <sub>36</sub> NixPt <sub>45</sub> nanospheres in microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> ,	6.7	1
57	A novel, noble-metal-free core-shell structure NiB@C cocatalyst modified sulfur vacancy-rich ZnIn <sub>2</sub> S <sub>4</sub> 2D ultrathin sheets for visible light-driven photocatalytic hydrogen evolution. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 855, 157333	5.7	14
56	Dual synergistic effect of S-doped carbon bridged semi crystalline MILN-based Co <sub>3</sub> S <sub>4</sub> /MnS <sub>2</sub> nanostructure in electrocatalytic overall water splitting. <i>Electrochimica Acta</i> , <b>2021</b> , 366, 137438	6.7	8
55	Dye wastewater treatment and hydrogen production in microbial electrolysis cells using MoS <sub>2</sub> -graphene oxide cathode: Effects of dye concentration, co-substrate and buffer solution. <i>Process Biochemistry</i> , <b>2021</b> , 102, 51-58	4.8	9
54	Sulfur defect rich Mo-NiS QDs assisted by O-C[double bond, length as m-dash]O chemical bonding for an efficient electrocatalytic overall water splitting. <i>Nanoscale</i> , <b>2021</b> , 13, 6644-6653	7.7	8
53	Modulating carbon-supported transition metal oxide by electron-giving and electron-absorbing functional groups towards efficient overall water splitting. <i>Chemical Engineering Journal</i> , <b>2021</b> , 416, 129147	14.7	10
52	P-enriched hydrochar for soil remediation: Synthesis, characterization, and lead stabilization. <i>Science of the Total Environment</i> , <b>2021</b> , 783, 146983	10.2	3
51	A case in subtropical climate city: Assessing the bioretention hydraulic performance on storm in response to poor permeability soil. <i>Journal of Environmental Management</i> , <b>2021</b> , 293, 112952	7.9	3
50	Visible-light-driven Z-scheme ZnInS/AgBr photocatalyst for boosting simultaneous Cr (VI) reduction and metronidazole oxidation: Kinetics, degradation pathways and mechanism. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 419, 126543	12.8	17
49	MOF-derived M-OOH with rich oxygen defects by in situ electro-oxidation reconstitution for a highly efficient oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 11415-11426	13	12
48	One-pot synthesis and characterization of engineered hydrochar by hydrothermal carbonization of biomass with ZnCl. <i>Chemosphere</i> , <b>2020</b> , 254, 126866	8.4	29
47	Different refractory organic substances degradation and microbial community shift in the single-chamber bio-photoelectrochemical system. <i>Bioresource Technology</i> , <b>2020</b> , 307, 123176	11	14
46	Path of electron transfer created in S-doped NH <sub>2</sub> -UiO-66 bridged ZnIn <sub>2</sub> S <sub>4</sub> /MoS <sub>2</sub> nanosheet heterostructure for boosting photocatalytic hydrogen evolution. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 2531-2539	5.5	17
45	Enhanced visible light photocatalytic activity of CdS through controllable self-assembly compositing with ZIF-67. <i>Molecular Catalysis</i> , <b>2020</b> , 485, 110797	3.3	17
44	Photocathode optimization and microbial community in the solar-illuminated bio-photoelectrochemical system for nitrofurazone degradation. <i>Bioresource Technology</i> , <b>2020</b> , 302, 122761	11	16
43	Adjustable anchoring of Ni/Co cations by oxygen-containing functional groups on functionalized graphite paper and accelerated mass/electron transfer for overall water splitting. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 2627-2643	5.5	11
42	Urea formaldehyde modified alginate beads with improved stability and enhanced removal of Pb, Cd, and Cu. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 396, 122664	12.8	25
41	A novel ligand with NH <sub>2</sub> and OOH-decorated Co/Fe-based oxide for an efficient overall water splitting: dual modulation roles of active sites and local electronic structure. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 6266-6273	5.5	5

40	Bio-photoelectrochemical system constructed with BiVO/RGO photocathode for 2,4-dichlorophenol degradation: BiVO/RGO optimization, degradation performance and mechanism. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 389, 121917	12.8	20
39	Nitrofurazone degradation in the self-biased bio-photoelectrochemical system: g-CN/CdS photocathode characterization, degradation performance, mechanism and pathways. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 384, 121438	12.8	32
38	Bimetallic organic framework-derived, oxygen-defect-rich $\text{Fe}_x\text{Co}_{3-x}\text{S}_4/\text{Fe}_y\text{Co}_{9-y}\text{S}_8$ heterostructure microsphere as a highly efficient and robust cathodic catalyst in the microbial fuel cell. <i>Journal of Power Sources</i> , <b>2020</b> , 472, 228582	8.9	14
37	CdS nanoparticles grown in situ on oxygen deficiency-rich $\text{WO}_3$ nanosheets: direct Z-scheme heterojunction towards enhancing visible light-driven hydrogen evolution. <i>CrystEngComm</i> , <b>2020</b> , 22, 5818-5827	3.3	8
36	Optimization of the overall water-splitting performance of N, S co-doped carbon-supported $\text{NiCoMnS}_x\text{O}$ at high current densities by the introduction of sulfur defects and oxygen vacancies. <i>CrystEngComm</i> , <b>2020</b> , 22, 6239-6248	3.3	5
35	CoP QD anchored carbon skeleton modified CdS nanorods as a co-catalyst for photocatalytic hydrogen production. <i>Nanoscale</i> , <b>2020</b> , 12, 19203-19212	7.7	23
34	Spherical cactus-like composite based on transition metals Ni, Co and Mn with 1D / 2D bonding heterostructure for electrocatalytic overall water splitting. <i>Electrochimica Acta</i> , <b>2019</b> , 323, 134845	6.7	12
33	Charge trapping and transfer mechanisms of noble metals and metal oxides deposited $\text{Ga}_2\text{O}_3$ toward typical contaminant degradation. <i>Chemical Engineering Journal</i> , <b>2019</b> , 370, 1119-1127	14.7	15
32	Oxygen deficiency introduced to Z-scheme CdS/ $\text{WO}_3$ nanomaterials with MoS as the cocatalyst towards enhancing visible-light-driven hydrogen evolution. <i>Nanoscale</i> , <b>2019</b> , 11, 10884-10895	7.7	31
31	Pt (111) quantum dot decorated flower-like $\text{Fe}_2\text{O}_3$ (104) thin film nanosheets as a highly efficient bifunctional electrocatalyst for overall water splitting. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 11379-11386	13.386	19
30	Ball-milled biochar for alternative carbon electrode. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 14693-14702	5.1	20
29	Surface functional groups of carbon-based adsorbents and their roles in the removal of heavy metals from aqueous solutions: A critical review. <i>Chemical Engineering Journal</i> , <b>2019</b> , 366, 608-621	14.7	435
28	Adsorption of nitroimidazole antibiotics from aqueous solutions on self-shaping porous biomass carbon foam pellets derived from <i>Vallisneria spiralis</i> waste as a new adsorbent. <i>Science of the Total Environment</i> , <b>2019</b> , 664, 24-36	10.2	33
27	Three-dimensional electro-Fenton degradation of Rhodamine B with efficient Fe-Cu/kaolin particle electrodes: Electrodes optimization, kinetics, influencing factors and mechanism. <i>Separation and Purification Technology</i> , <b>2019</b> , 210, 60-68	8.3	46
26	Pt (1 1 1) quantum dot engineered Fe-MOF nanosheet arrays with porous core-shell as an electrocatalyst for efficient overall water splitting. <i>Journal of Catalysis</i> , <b>2019</b> , 380, 307-317	7.3	32
25	Biochar amendment improves crop production in problem soils: A review. <i>Journal of Environmental Management</i> , <b>2019</b> , 232, 8-21	7.9	210
24	Role of non-ion surfactants in three-dimensional ordered porous biomass carbon foam derived from the liquefied eucalyptus sawdust for metronidazole adsorption. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2018</b> , 93, 3044-3055	3.5	8
23	Adsorption Performance and Mechanisms of Methylene Blue Removal by Non-magnetic and Magnetic Particles Derived from the <i>Vallisneria spiralis</i> Waste. <i>Journal of Polymers and the Environment</i> , <b>2018</b> , 26, 2992-3004	4.5	13

22	Adsorption Studies of Dimetridazole and Metronidazole onto Biochar Derived from Sugarcane Bagasse: Kinetic, Equilibrium, and Mechanisms. <i>Journal of Polymers and the Environment</i> , <b>2018</b> , 26, 765-777	4.5	23
21	Efficient degradation of tetrabromobisphenol A via electrochemical sequential reduction-oxidation: Degradation efficiency, intermediates, and pathway. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 343, 376-385	12.8	27
20	Metal-induced Z-scheme CdS/Ag/g-C3N4 photocatalyst for enhanced hydrogen evolution under visible light: The synergy of MIP effect and electron mediator of Ag. <i>Molecular Catalysis</i> , <b>2018</b> , 458, 43-51	3.3	48
19	Alginate-based composites for environmental applications: A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2018</b> , 49, 318-356	11.1	127
18	Pt/Fe-NF electrode with high double-layer capacitance for efficient hydrogen evolution reaction in alkaline media. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 9458-9466	6.7	25
17	Role of small molecular weight organic acids with different chemical structures as electron donors in the photocatalytic degradation of ronidazole: Synergistic performance and mechanism. <i>Chemical Engineering Journal</i> , <b>2017</b> , 326, 1030-1039	14.7	14
16	Fabrication of Ag/AgBr/Ga 2 O 3 heterojunction composite with efficient photocatalytic activity. <i>Molecular Catalysis</i> , <b>2017</b> , 432, 57-63	3.3	15
15	Solar promoted azo dye degradation and energy production in the bio-photoelectrochemical system with a g-C3N4/BiOBr heterojunction photocathode. <i>Journal of Power Sources</i> , <b>2017</b> , 371, 26-34	8.9	54
14	Synergetic decomposition performance and mechanism of perfluorooctanoic acid in dielectric barrier discharge plasma system with Fe3O4@SiO2-BiOBr magnetic photocatalyst. <i>Molecular Catalysis</i> , <b>2017</b> , 441, 179-189	3.3	8
13	Accelerated azo dye degradation and concurrent hydrogen production in the single-chamber photocatalytic microbial electrolysis cell. <i>Bioresource Technology</i> , <b>2017</b> , 224, 63-68	11	54
12	Biosurfactant assisted synthesis of Fe3O4@rhamnolipid@BiOBr and its behaviour in plasma discharge system. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 235602	3	4
11	Facile synthesis of PdBe nanoparticles modified Ni foam electrode and its behaviors in electrochemical reduction of tetrabromobisphenol A. <i>Materials Letters</i> , <b>2016</b> , 166, 300-303	3.3	12
10	Simulated solar-light induced photoelectrocatalytic degradation of bisphenol-A using Fe3+-doped TiO2 nanotube arrays as a photoanode with simultaneous aeration. <i>Separation and Purification Technology</i> , <b>2016</b> , 161, 144-151	8.3	12
9	Photocatalytic decomposition of perfluorooctanoic acid by noble metallic nanoparticles modified TiO 2. <i>Chemical Engineering Journal</i> , <b>2016</b> , 286, 232-238	14.7	92
8	Catalytic Properties of TiO2/Fe3O4 Nanoparticles in Plasma Chemical Treatment. <i>Russian Journal of Physical Chemistry A</i> , <b>2016</b> , 90, 777-782	0.7	7
7	Highly efficient Pd-Fe/Ni foam as heterogeneous Fenton catalysts for the three-dimensional electrode system. <i>Catalysis Communications</i> , <b>2016</b> , 86, 63-66	3.2	23
6	Synergistic degradation performance and mechanism of 17 $\beta$ -Estradiol by dielectric barrier discharge non-thermal plasma combined with Pt/TiO2. <i>Separation and Purification Technology</i> , <b>2015</b> , 152, 46-54	8.3	25
5	Performance, kinetics, and equilibrium of methylene blue adsorption on biochar derived from eucalyptus saw dust modified with citric, tartaric, and acetic acids. <i>Bioresource Technology</i> , <b>2015</b> , 198, 300-8	11	161

4	Optimization and modeling of preparation conditions of TiO <sub>2</sub> nanoparticles coated on hollow glass microspheres using response surface methodology. <i>Separation and Purification Technology</i> , <b>2014</b> , 125, 156-162	8.3	36
3	Degradation kinetics and mechanism of emerging contaminants in water by dielectric barrier discharge non-thermal plasma: The case of 17 $\beta$ -Estradiol. <i>Chemical Engineering Journal</i> , <b>2013</b> , 228, 790-798	14.7	58
2	Anaerobic biological treatment of high strength cassava starch wastewater in a new type up-flow multistage anaerobic reactor. <i>Bioresource Technology</i> , <b>2012</b> , 104, 280-8	11	61
1	Surface-Activated Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Cocatalyst Assembled with CdZnS-Formed 0D/2D CdZnS/Ti <sub>3</sub> C <sub>2</sub> -A 40 Schottky Heterojunction for Enhanced Photocatalytic Hydrogen Evolution. <i>Solar Rrl</i> , 2100863	7.1	2