

Zebin Yu

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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	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> , 2019 , 366, 608-621	14.7	435
74	Biochar amendment improves crop production in problem soils: A review. <i>Journal of Environmental Management</i> , 2019 , 232, 8-21	7.9	210
73	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> , 2015 , 198, 300-8	11	161
72	Alginate-based composites for environmental applications: A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 2018 , 49, 318-356	11.1	127
71	Photocatalytic decomposition of perfluorooctanoic acid by noble metallic nanoparticles modified TiO ₂ . <i>Chemical Engineering Journal</i> , 2016 , 286, 232-238	14.7	92
70	Anaerobic biological treatment of high strength cassava starch wastewater in a new type up-flow multistage anaerobic reactor. <i>Bioresource Technology</i> , 2012 , 104, 280-8	11	61
69	Degradation kinetics and mechanism of emerging contaminants in water by dielectric barrier discharge non-thermal plasma: The case of 17 β -Estradiol. <i>Chemical Engineering Journal</i> , 2013 , 228, 790-798	14.7	58
68	Solar promoted azo dye degradation and energy production in the bio-photoelectrochemical system with a g-C ₃ N ₄ /BiOBr heterojunction photocathode. <i>Journal of Power Sources</i> , 2017 , 371, 26-34	8.9	54
67	Accelerated azo dye degradation and concurrent hydrogen production in the single-chamber photocatalytic microbial electrolysis cell. <i>Bioresource Technology</i> , 2017 , 224, 63-68	11	54
66	Metal-induced Z-scheme CdS/Ag/g-C ₃ N ₄ photocatalyst for enhanced hydrogen evolution under visible light: The synergy of MIP effect and electron mediator of Ag. <i>Molecular Catalysis</i> , 2018 , 458, 43-51	3.3	48
65	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> , 2019 , 210, 60-68	8.3	46
64	Optimization and modeling of preparation conditions of TiO ₂ nanoparticles coated on hollow glass microspheres using response surface methodology. <i>Separation and Purification Technology</i> , 2014 , 125, 156-162	8.3	36
63	Adsorption of nitroimidazole antibiotics from aqueous solutions on self-shaping porous biomass carbon foam pellets derived from Vallisneria natans waste as a new adsorbent. <i>Science of the Total Environment</i> , 2019 , 664, 24-36	10.2	33
62	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> , 2019 , 380, 307-317	7.3	32
61	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> , 2020 , 384, 121438	12.8	32
60	Oxygen deficiency introduced to Z-scheme CdS/WO ₃ nanomaterials with MoS ₂ as the cocatalyst towards enhancing visible-light-driven hydrogen evolution. <i>Nanoscale</i> , 2019 , 11, 10884-10895	7.7	31
59	One-pot synthesis and characterization of engineered hydrochar by hydrothermal carbonization of biomass with ZnCl ₂ . <i>Chemosphere</i> , 2020 , 254, 126866	8.4	29

58	Efficient degradation of tetrabromobisphenol A via electrochemical sequential reduction-oxidation: Degradation efficiency, intermediates, and pathway. <i>Journal of Hazardous Materials</i> , 2018 , 343, 376-385	12.8	27
57	Pt/Fe-NF electrode with high double-layer capacitance for efficient hydrogen evolution reaction in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 9458-9466	6.7	25
56	Synergistic degradation performance and mechanism of 17 β -estradiol by dielectric barrier discharge non-thermal plasma combined with Pt/TiO ₂ . <i>Separation and Purification Technology</i> , 2015 , 152, 46-54	8.3	25
55	Urea formaldehyde modified alginate beads with improved stability and enhanced removal of Pb, Cd, and Cu. <i>Journal of Hazardous Materials</i> , 2020 , 396, 122664	12.8	25
54	Adsorption Studies of Dimetridazole and Metronidazole onto Biochar Derived from Sugarcane Bagasse: Kinetic, Equilibrium, and Mechanisms. <i>Journal of Polymers and the Environment</i> , 2018 , 26, 765-775	7.7	23
53	CoP QD anchored carbon skeleton modified CdS nanorods as a co-catalyst for photocatalytic hydrogen production. <i>Nanoscale</i> , 2020 , 12, 19203-19212	7.7	23
52	Highly efficient Pd-Fe/Ni foam as heterogeneous Fenton catalysts for the three-dimensional electrode system. <i>Catalysis Communications</i> , 2016 , 86, 63-66	3.2	23
51	Ball-milled biochar for alternative carbon electrode. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 14693-14702	5.1	20
50	Bio-photoelectrochemical system constructed with BiVO ₄ /RGO photocathode for 2,4-dichlorophenol degradation: BiVO ₄ /RGO optimization, degradation performance and mechanism. <i>Journal of Hazardous Materials</i> , 2020 , 389, 121917	12.8	20
49	Pt (111) quantum dot decorated flower-like Fe ₂ O ₃ (104) thin film nanosheets as a highly efficient bifunctional electrocatalyst for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11379-11386	13.386	19
48	Path of electron transfer created in S-doped NH ₂ -UiO-66 bridged ZnIn ₂ S ₄ /MoS ₂ nanosheet heterostructure for boosting photocatalytic hydrogen evolution. <i>Catalysis Science and Technology</i> , 2020 , 10, 2531-2539	5.5	17
47	Enhanced visible light photocatalytic activity of CdS through controllable self-assembly compositing with ZIF-67. <i>Molecular Catalysis</i> , 2020 , 485, 110797	3.3	17
46	Metal organic frameworks constructed heterojunction with NiS-NiS/CdS: The effect of organic-ligand in UiO-66 for charge transfer of photocatalytic hydrogen evolution. <i>Renewable Energy</i> , 2021 , 168, 1112-1121	8.1	17
45	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> , 2021 , 419, 126543	12.8	17
44	Photocathode optimization and microbial community in the solar-illuminated bio-photoelectrochemical system for nitrofurazone degradation. <i>Bioresource Technology</i> , 2020 , 302, 122761	11	16
43	Fabrication of Ag/AgBr/Ga ₂ O ₃ heterojunction composite with efficient photocatalytic activity. <i>Molecular Catalysis</i> , 2017 , 432, 57-63	3.3	15
42	Charge trapping and transfer mechanisms of noble metals and metal oxides deposited Ga ₂ O ₃ toward typical contaminant degradation. <i>Chemical Engineering Journal</i> , 2019 , 370, 1119-1127	14.7	15
41	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> , 2017 , 326, 1030-1039	14.7	14

40	Different refractory organic substances degradation and microbial community shift in the single-chamber bio-photoelectrochemical system. <i>Bioresource Technology</i> , 2020 , 307, 123176	11	14
39	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> , 2020 , 472, 228582	8.9	14
38	A novel, noble-metal-free core-shell structure $\text{Ni}@\text{C}$ cocatalyst modified sulfur vacancy-rich ZnIn_2S_4 2D ultrathin sheets for visible light-driven photocatalytic hydrogen evolution. <i>Journal of Alloys and Compounds</i> , 2021 , 855, 157333	5.7	14
37	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> , 2018 , 26, 2992-3004	4.5	13
36	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> , 2019 , 323, 134845	6.7	12
35	Facile synthesis of Pd@Ni nanoparticles modified Ni foam electrode and its behaviors in electrochemical reduction of tetrabromobisphenol A. <i>Materials Letters</i> , 2016 , 166, 300-303	3.3	12
34	Simulated solar-light induced photoelectrocatalytic degradation of bisphenol-A using Fe^{3+} -doped TiO_2 nanotube arrays as a photoanode with simultaneous aeration. <i>Separation and Purification Technology</i> , 2016 , 161, 144-151	8.3	12
33	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> , 2021 , 9, 11415-11426	13	12
32	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> , 2020 , 10, 2627-2643	5.5	11
31	Modulating carbon-supported transition metal oxide by electron-giving and electron-absorbing functional groups towards efficient overall water splitting. <i>Chemical Engineering Journal</i> , 2021 , 416, 129124	14.7	10
30	Dye wastewater treatment and hydrogen production in microbial electrolysis cells using MoS_2 -graphene oxide cathode: Effects of dye concentration, co-substrate and buffer solution. <i>Process Biochemistry</i> , 2021 , 102, 51-58	4.8	9
29	Simultaneous reclaiming phosphate and ammonium from aqueous solutions by calcium alginate-biochar composite: Sorption performance and governing mechanisms. <i>Chemical Engineering Journal</i> , 2022 , 429, 132166	14.7	9
28	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> , 2018 , 93, 3044-3055	3.5	8
27	Synergetic decomposition performance and mechanism of perfluorooctanoic acid in dielectric barrier discharge plasma system with $\text{Fe}_3\text{O}_4@\text{SiO}_2$ - BiOBr magnetic photocatalyst. <i>Molecular Catalysis</i> , 2017 , 441, 179-189	3.3	8
26	CdS nanoparticles grown in situ on oxygen deficiency-rich WO_3 nanosheets: direct Z-scheme heterojunction towards enhancing visible light-driven hydrogen evolution. <i>CrystEngComm</i> , 2020 , 22, 5818-5827	3.3	8
25	Dual synergistic effect of S-doped carbon bridged semi crystalline MILN-based $\text{Co}_3\text{S}_4/\text{MnS}_2$ nanostructure in electrocatalytic overall water splitting. <i>Electrochimica Acta</i> , 2021 , 366, 137438	6.7	8
24	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> , 2021 , 13, 6644-6653	7.7	8
23	Activation Strategy of WS_2 as an Efficient Photocatalytic Hydrogen Evolution Cocatalyst through Co^{2+} Doping to Adjust the Highly Exposed Active (100) Facet. <i>Solar Rrl</i> , 2021 , 5, 2100223	7.1	7

22	Catalytic Properties of TiO ₂ /Fe ₃ O ₄ Nanoparticles in Plasma Chemical Treatment. <i>Russian Journal of Physical Chemistry A</i> , 2016 , 90, 777-782	0.7	7
21	A novel ligand with -NH ₂ and -COOH-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> , 2020 , 10, 6266-6273	5.5	5
20	Optimization of the overall water-splitting performance of N, S co-doped carbon-supported NiCoMnS _x O at high current densities by the introduction of sulfur defects and oxygen vacancies. <i>CrystEngComm</i> , 2020 , 22, 6239-6248	3.3	5
19	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> , 2022 , 286, 131908	8.4	5
18	Environmental behaviors and degradation methods of microplastics in different environmental media.. <i>Chemosphere</i> , 2022 , 134354	8.4	5
17	Biosurfactant assisted synthesis of Fe ₃ O ₄ @rhamnolipid@BiOBr and its behaviour in plasma discharge system. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 235602	3	4
16	Synchronous removal of tetracycline and copper (II) over Z-scheme BiVO ₄ /rGO/g-CN photocatalyst under visible-light irradiation. <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	3
15	3D-Stretched Film Ni S Nanosheet/Macromolecule Anthraquinone Derivative Polymers for Electrocatalytic Overall Water Splitting. <i>Small</i> , 2021 , 17, e2101003	11	3
14	P-enriched hydrochar for soil remediation: Synthesis, characterization, and lead stabilization. <i>Science of the Total Environment</i> , 2021 , 783, 146983	10.2	3
13	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> , 2021 , 293, 112952	7.9	3
12	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> , 2022 ,	7.7	2
11	Recent advances in the treatment of contaminated soils by ball milling technology: Classification, mechanisms, and applications. <i>Journal of Cleaner Production</i> , 2022 , 340, 130821	10.3	2
10	Surface-Activated Ti ₃ C ₂ T _x MXene Cocatalyst Assembled with CdZnS-Formed 0D/2D CdZnS/Ti ₃ C ₂ -A 40 Schottky Heterojunction for Enhanced Photocatalytic Hydrogen Evolution. <i>Solar Rrl</i> , 2100863	7.1	2
9	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> , 2021 , 324, 129259	10.3	2
8	S-scheme III phase MoSe ₂ /AgBr heterojunction toward antibiotic degradation: Photocatalytic mechanism, degradation pathways, and intermediates toxicity evaluation. <i>Separation and Purification Technology</i> , 2022 , 290, 120881	8.3	2
7	Chlortetracycline degradation performance and mechanism in the self-biased bio-photoelectrochemical system constructed with an oxygen-defect-rich BiVO ₄ /NiS photoanode.. <i>Chemosphere</i> , 2022 , 133787	8.4	1
6	Copper vacancy and CO bond facilitate the enhancement of oxygen reduction activity of three-dimensional flower-like Cu ₃₆ Ni _x Pt ₄₅ nanospheres in microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	1
5	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> , 2022 , 805, 150340	10.2	1

4	A new type of photoinduced Anion-Exchange Approach: MOF-Derived Cobalt-Based sulfide enables spatial separation of catalytic sites for efficient H ₂ photoproduction. <i>Separation and Purification Technology</i> , 2022 , 294, 121200	8.3	1
3	Levofloxacin degradation performance and mechanism in the novel electro-Fenton system constructed with vanadium oxide electrodes under neutral pH. <i>Chemical Engineering Journal</i> , 2022 , 433, 133574	14.7	0
2	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> , 2022 , 296, 134040	8.4	0
1	Application of biochar immobilized microorganisms for pollutants removal from wastewater: A review.. <i>Science of the Total Environment</i> , 2022 , 837, 155563	10.2	0