

Jing Bai

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106
papers

4,259
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37
h-index

63
g-index

109
ext. papers

5,139
ext. citations

12.4
avg, IF

5.85
L-index

#	Paper	IF	Citations
106	Titanium dioxide nanomaterials for sensor applications. <i>Chemical Reviews</i> , 2014 , 114, 10131-76	68.1	573
105	Selective Degradation of Organic Pollutants Using an Efficient Metal-Free Catalyst Derived from Carbonized Polypyrrole via Peroxymonosulfate Activation. <i>Environmental Science & Technology</i> , 2017 , 51, 11288-11296	10.3	311
104	Photoelectrocatalytic degradation of tetracycline by highly effective TiO ₂ nanopore arrays electrode. <i>Journal of Hazardous Materials</i> , 2009 , 171, 678-83	12.8	126
103	A highly efficient BiVO ₄ /WO ₃ /W heterojunction photoanode for visible-light responsive dual photoelectrode photocatalytic fuel cell. <i>Applied Catalysis B: Environmental</i> , 2016 , 183, 224-230	21.8	120
102	A new glass substrate photoelectrocatalytic electrode for efficient visible-light hydrogen production: CdS sensitized TiO ₂ nanotube arrays. <i>Applied Catalysis B: Environmental</i> , 2010 , 95, 408-413	21.8	115
101	High-performance BiVO ₄ photoanodes cocatalyzed with an ultrathin Fe ₂ O ₃ layer for photoelectrochemical application. <i>Applied Catalysis B: Environmental</i> , 2017 , 204, 127-133	21.8	108
100	Highly stable CdS-modified short TiO ₂ nanotube array electrode for efficient visible-light hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 167-174	6.7	106
99	Highly selective photocatalytic production of H ₂ O ₂ on sulfur and nitrogen co-doped graphene quantum dots tuned TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2018 , 239, 475-484	21.8	105
98	Synthesis of WO ₃ /BiVO ₄ photoanode using a reaction of bismuth nitrate with peroxovanadate on WO ₃ film for efficient photoelectrocatalytic water splitting and organic pollutant degradation. <i>Applied Catalysis B: Environmental</i> , 2017 , 217, 21-29	21.8	102
97	Self-assembled, nanowire network electrodes for depleted bulk heterojunction solar cells. <i>Advanced Materials</i> , 2013 , 25, 1769-73	24	101
96	RhB Adsorption Performance of Magnetic Adsorbent Fe ₃ O ₄ /RGO Composite and Its Regeneration through A Fenton-like Reaction. <i>Nano-Micro Letters</i> , 2014 , 6, 125-135	19.5	92
95	Preparation of vertically aligned WO ₃ nanoplate array films based on peroxotungstate reduction reaction and their excellent photoelectrocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2017 , 202, 388-396	21.8	90
94	A solar light driven dual photoelectrode photocatalytic fuel cell (PFC) for simultaneous wastewater treatment and electricity generation. <i>Journal of Hazardous Materials</i> , 2016 , 311, 51-62	12.8	83
93	Converting hazardous organics into clean energy using a solar responsive dual photoelectrode photocatalytic fuel cell. <i>Journal of Hazardous Materials</i> , 2013 , 262, 304-10	12.8	79
92	Efficient photochemical water splitting and organic pollutant degradation by highly ordered TiO ₂ nanopore arrays. <i>Applied Catalysis B: Environmental</i> , 2009 , 89, 142-148	21.8	77
91	Monolithic cobalt-doped carbon aerogel for efficient catalytic activation of peroxymonosulfate in water. <i>Journal of Hazardous Materials</i> , 2017 , 332, 195-204	12.8	76
90	Photoelectrocatalytic COD determination method using highly ordered TiO ₂ nanotube array. <i>Water Research</i> , 2009 , 43, 1986-92	12.5	74

89	Highly selective transformation of ammonia nitrogen to N based on a novel solar-driven photoelectrocatalytic-chlorine radical reactions system. <i>Water Research</i> , 2017 , 125, 512-519	12.5	70
88	Enhanced organic pollutants degradation and electricity production simultaneously via strengthening the radicals reaction in a novel Fenton-photocatalytic fuel cell system. <i>Water Research</i> , 2017 , 108, 293-300	12.5	68
87	A novel in situ preparation method for nanostructured Fe_2O_3 films from electrodeposited Fe films for efficient photoelectrocatalytic water splitting and the degradation of organic pollutants. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4345-4353	13	68
86	The formation mechanism of titania nanotube arrays in hydrofluoric acid electrolyte. <i>Journal of Materials Science</i> , 2008 , 43, 1880-1884	4.3	65
85	Carbon quantum dots modified anatase/rutile TiO_2 photoanode with dramatically enhanced photoelectrochemical performance. <i>Applied Catalysis B: Environmental</i> , 2020 , 269, 118776	21.8	62
84	Highly-stable and efficient photocatalytic fuel cell based on an epitaxial $\text{TiO}_2/\text{WO}_3/\text{W}$ nanothorn photoanode and enhanced radical reactions for simultaneous electricity production and wastewater treatment. <i>Applied Energy</i> , 2018 , 220, 127-137	10.7	62
83	Preparation of short, robust and highly ordered TiO_2 nanotube arrays and their applications as electrode. <i>Applied Catalysis B: Environmental</i> , 2009 , 92, 326-332	21.8	61
82	Preparation of photocatalytic anatase nanowire films by in situ oxidation of titanium plate. <i>Nanotechnology</i> , 2009 , 20, 185703	3.4	56
81	$\text{BiVO}_4/\text{TiO}_2(\text{N})$ Nanotubes Heterojunction Photoanode for Highly Efficient Photoelectrocatalytic Applications. <i>Nano-Micro Letters</i> , 2017 , 9, 14	19.5	55
80	Aerated visible-light responsive photocatalytic fuel cell for wastewater treatment with producing sustainable electricity in neutral solution. <i>Chemical Engineering Journal</i> , 2014 , 252, 89-94	14.7	51
79	Combined nanostructured $\text{Bi}_2\text{S}_3/\text{TNA}$ photoanode and Pt/SiPVC photocathode for efficient self-biasing photoelectrochemical hydrogen and electricity generation. <i>Nano Energy</i> , 2014 , 9, 152-160	17.1	51
78	Enhanced Photoelectrochemical Properties of Cu_2O -loaded Short TiO_2 Nanotube Array Electrode Prepared by Sonochemical Deposition. <i>Nano-Micro Letters</i> , 2010 , 2, 277-284	19.5	51
77	Exhaustive Conversion of Inorganic Nitrogen to Nitrogen Gas Based on a Photoelectro-Chlorine Cycle Reaction and a Highly Selective Nitrogen Gas Generation Cathode. <i>Environmental Science & Technology</i> , 2018 , 52, 1413-1420	10.3	50
76	A novel thin-layer photoelectrocatalytic (PEC) reactor with double-faced titania nanotube arrays electrode for effective degradation of tetracycline. <i>Applied Catalysis B: Environmental</i> , 2010 , 98, 154-160	21.8	50
75	BiVO_4 Photoanode with Exposed (040) Facets for Enhanced Photoelectrochemical Performance. <i>Nano-Micro Letters</i> , 2018 , 10, 11	19.5	47
74	Photoelectrocatalytic activity of an $\text{n-ZnO}/\text{p-Cu}_2\text{O}/\text{n-TNA}$ ternary heterojunction electrode for tetracycline degradation. <i>Journal of Hazardous Materials</i> , 2013 , 262, 482-8	12.8	46
73	Preparation of well-aligned WO_3 nanoflake arrays vertically grown on tungsten substrate as photoanode for photoelectrochemical water splitting. <i>Electrochemistry Communications</i> , 2012 , 20, 153-156	5.1	45
72	A low-cost photoelectrochemical tandem cell for highly-stable and efficient solar water splitting. <i>Nano Energy</i> , 2017 , 41, 225-232	17.1	42

71	Dramatic enhancement of organics degradation and electricity generation via strengthening superoxide radical by using a novel 3D AQS/PPy-GF cathode. <i>Water Research</i> , 2017 , 125, 259-269	12.5	39
70	Comparison of photoelectrochemical properties of TiO ₂ -nanotube-array photoanode prepared by anodization in different electrolyte. <i>Environmental Chemistry Letters</i> , 2009 , 7, 363-368	13.3	38
69	A novel 3D ZnO/Cu ₂ O nanowire photocathode material with highly efficient photoelectrocatalytic performance. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22996-23002	13	37
68	Removal of trivalent chromium in the complex state of trivalent chromium passivation wastewater. <i>Chemical Engineering Journal</i> , 2014 , 236, 59-65	14.7	37
67	Self-biasing photoelectrochemical cell for spontaneous overall water splitting under visible-light illumination. <i>ChemSusChem</i> , 2013 , 6, 1276-81	8.3	37
66	Total organic carbon and total nitrogen removal and simultaneous electricity generation for nitrogen-containing wastewater based on the catalytic reactions of hydroxyl and chlorine radicals. <i>Applied Catalysis B: Environmental</i> , 2018 , 238, 168-176	21.8	35
65	Spin-State-Dependent Peroxymonosulfate Activation of Single-Atom Mn Moieties via a Radical-Free Pathway. <i>ACS Catalysis</i> , 2021 , 11, 9569-9577	13.1	34
64	The Inhibition Effect of Tert-Butyl Alcohol on the TiO Nano Assays Photoelectrocatalytic Degradation of Different Organics and Its Mechanism. <i>Nano-Micro Letters</i> , 2016 , 8, 221-231	19.5	31
63	Efficient wastewater treatment and simultaneously electricity production using a photocatalytic fuel cell based on the radical chain reactions initiated by dual photoelectrodes. <i>Journal of Hazardous Materials</i> , 2017 , 337, 47-54	12.8	31
62	Serial hole transfer layers for a BiVO photoanode with enhanced photoelectrochemical water splitting. <i>Nanoscale</i> , 2018 , 10, 18378-18386	7.7	28
61	Magnetically separable maghemite/montmorillonite composite as an efficient heterogeneous Fenton-like catalyst for phenol degradation. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 19261-19372	5.1	27
60	Extremely Efficient Decomposition of Ammonia N to N Using ClO from Reactions of HO and HOCl Generated in Situ on a Novel Bifacial Photoelectroanode. <i>Environmental Science & Technology</i> , 2019 , 53, 6945-6953	10.3	25
59	Preparation of a BiVO nanoporous photoanode based on peroxovanadate reduction and conversion for efficient photoelectrochemical performance. <i>Nanoscale</i> , 2018 , 10, 2848-2855	7.7	25
58	The effect and mechanism of organic pollutants oxidation and chemical energy conversion for neutral wastewater via strengthening reactive oxygen species. <i>Science of the Total Environment</i> , 2019 , 651, 1226-1235	10.2	21
57	Self-Driven Photoelectrochemical Splitting of HS for S and H Recovery and Simultaneous Electricity Generation. <i>Environmental Science & Technology</i> , 2017 , 51, 12965-12971	10.3	20
56	Enhanced photoelectrocatalytic performance of nanoporous WO ₃ photoanode by modification of cobalt phosphite (CoPi) catalyst. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 157-161	2.6	20
55	Coupled Effect of Sulfidation and Ferrous Dosing on Selenate Removal by Zerovalent Iron Under Aerobic Conditions. <i>Environmental Science & Technology</i> , 2019 , 53, 14577-14585	10.3	20
54	Efficient degradation of refractory organics for carbonate-containing wastewater via generation carbonate radical based on a photoelectrocatalytic TNA-MCF system. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118071	21.8	19

53	High-efficient energy recovery from organics degradation for neutral wastewater treatment based on radicals catalytic reaction of Fe/Fe-EDTA complexes. <i>Chemosphere</i> , 2018 , 201, 59-65	8.4	17
52	High yield of H ₂ O ₂ and efficient S recovery from toxic H ₂ S splitting through a self-driven photoelectrocatalytic system with a microporous GDE cathode. <i>Applied Catalysis B: Environmental</i> , 2018 , 238, 491-497	21.8	16
51	Highly efficient total nitrogen and simultaneous total organic carbon removal for urine based on the photoelectrochemical cycle reaction of chlorine and hydroxyl radicals. <i>Electrochimica Acta</i> , 2019 , 297, 1-9	6.7	16
50	Dramatic enhancement of photocurrent for BiVO ₄ /TiO ₂ heterojunction photoanode with suitable band-match via in-situ band regulation using Ta. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 18202-18210	6.7	16
49	Impact of wastewater treatment plant effluent on an urban river. <i>Journal of Freshwater Ecology</i> , 2017 , 32, 697-710	1.4	15
48	WO ₃ nanopores sensor for chemical oxygen demand (COD) determination under visible light. <i>Sensors</i> , 2014 , 14, 10680-90	3.8	15
47	Exhaustive denitrification via chlorine oxide radical reactions for urea based on a novel photoelectrochemical cell. <i>Water Research</i> , 2020 , 170, 115357	12.5	15
46	Electron blocking and hole extraction by a dual-function layer for hematite with enhanced photoelectrocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 175-184	21.8	15
45	Photocatalytic fuel cell based on sulfate radicals converted from sulfates in situ for wastewater treatment and chemical energy utilization. <i>Catalysis Today</i> , 2019 , 335, 485-491	5.3	14
44	The Promotion Effect of Low-Molecular Hydroxyl Compounds on the Nano-Photoelectrocatalytic Degradation of Fulvic Acid and Mechanism. <i>Nano-Micro Letters</i> , 2016 , 8, 320-327	19.5	14
43	TiO ₂ nanotube arrays and TiO ₂ -nanotube-array based dye-sensitized solar cell. <i>Science Bulletin</i> , 2007 , 52, 1585-1589		14
42	Efficient SO Removal and Highly Synergistic HO Production Based on a Novel Dual-Function Photoelectrocatalytic System. <i>Environmental Science & Technology</i> , 2020 , 54, 11515-11525	10.3	14
41	Preparation of hematite with an ultrathin iron titanate layer via an in situ reaction and its stable, long-lived, and excellent photoelectrochemical performance. <i>Applied Catalysis B: Environmental</i> , 2017 , 218, 690-699	21.8	13
40	Enhanced Oxidation of Organic Contaminants by Mn(VII)/CaSO Under Environmentally Relevant Conditions: Performance and Mechanisms. <i>Water Research</i> , 2021 , 188, 116481	12.5	13
39	Scalable one-step synthesis of TiO ₂ /WO ₃ films on titanium plates with an efficient electron storage ability. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10195-10198	13	12
38	Efficient Degradation of Refractory Organics Using Sulfate Radicals Generated Directly from WO ₃ Photoelectrode and the Catalytic Reaction of Sulfate. <i>Catalysts</i> , 2017 , 7, 346	4	12
37	Assessment of a COD analytical method based on the photoelectrocatalysis of a TiO ₂ nanotube array sensor. <i>Analytical Methods</i> , 2012 , 4, 1790	3.2	11
36	Kinetics and Mechanisms for Photoelectrochemical Degradation of Glucose on Highly Effective Self-Organized TiO ₂ Nanotube Arrays. <i>Chinese Journal of Catalysis</i> , 2010 , 31, 163-170	11.3	10

35	Efficient degradation of N-containing organic wastewater via chlorine oxide radical generated by a photoelectrochemical system. <i>Chemical Engineering Journal</i> , 2020 , 392, 123695	14.7	10
34	Efficient purification and chemical energy recovery from urine by using a denitrifying fuel cell. <i>Water Research</i> , 2019 , 152, 117-125	12.5	10
33	Efficient denitrification and removal of natural organic matter, emerging pollutants simultaneously for RO concentrate based on photoelectrocatalytic radical reaction. <i>Separation and Purification Technology</i> , 2020 , 234, 116032	8.3	10
32	Novel 3D Pd-Cu(OH)/CF cathode for rapid reduction of nitrate-N and simultaneous total nitrogen removal from wastewater. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123232	12.8	10
31	Efficient ammonia removal and toxic chlorate control by using BiVO ₄ /WO ₃ heterojunction photoanode in a self-driven PEC-chlorine system. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123725	12.8	9
30	Highly-ordered dye-sensitized TiO ₂ nanotube arrays film used for improving photoelectrochemical electrodes. <i>Science China Chemistry</i> , 2013 , 56, 101-105	7.9	8
29	TiO ₂ nanotube sensor for online chemical oxygen demand determination in conjunction with flow injection technique. <i>Water Environment Research</i> , 2014 , 86, 532-9	2.8	7
28	Charge recombination in dye-sensitized nanoporous TiO ₂ solar cell. <i>Science Bulletin</i> , 2005 , 50, 2408-2412		7
27	Efficient TN removal and simultaneous TOC conversion for highly toxic organic amines based on a photoelectrochemical-chlorine radicals process. <i>Catalysis Today</i> , 2019 , 335, 452-459	5.3	7
26	Efficient organic pollutants conversion and electricity generation for carbonate-containing wastewater based on carbonate radical reactions initiated by BiVO ₄ -Au/PVC system. <i>Journal of Hazardous Materials</i> , 2020 , 389, 122140	12.8	6
25	Photoelectrocatalytic Performance of Benzoic Acid on TiO ₂ Nanotube Array Electrodes. <i>International Journal of Photoenergy</i> , 2013 , 2013, 1-7	2.1	6
24	Trace organic contaminants abatement by permanganate/bisulfite pretreatment coupled with conventional water treatment processes: Lab- and pilot-scale tests. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123380	12.8	5
23	The design of high performance photoanode of CQDs/TiO ₂ /WO ₃ based on DFT alignment of lattice parameter and energy band, and charge distribution. <i>Journal of Colloid and Interface Science</i> , 2021 , 600, 828-837	9.3	5
22	Adsorption and photoelectrocatalytic characteristics of organics on TiO ₂ nanotube arrays. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 3907-3914	2.6	4
21	Enhanced Photoelectrochemical Properties of Cu ₂ O-loaded Short TiO ₂ Nanotube Array Electrode Prepared by Sonochemical Deposition 2010 , 2, 277		4
20	Tungsten sulfide co-catalytic radical chain-reaction for efficient organics degradation and electricity generation. <i>Applied Catalysis B: Environmental</i> , 2020 , 268, 118471	21.8	4
19	Efficient urine removal, simultaneous elimination of emerging contaminants, and control of toxic chlorate in a photoelectrocatalytic-chlorine system. <i>Environmental Pollution</i> , 2020 , 267, 115605	9.3	3
18	The synergic generation of CO ₃ ^{•-} and O ₂ ^{•-} radicals in a novel photocatalytic fuel cell for efficient oxidation of carbonate-containing wastewater and simultaneous electricity production. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119227	21.8	3

17	Simulation and engineering demonstration of the advanced treatment of rainy overflow wastewater using a combined system of storage tank-wastewater treatment plant-wetland. <i>Water Environment Research</i> , 2020 , 92, 1057-1069	2.8	3
16	Effect of Oxygen/iron Composition on Charge Transport and Interface Reaction in Hematite. <i>ACS Catalysis</i> , 2020 , 10, 2413-2418	13.1	3
15	Surface metal valence state regulating on hematite to weaken dependence of charge transport to catalyst loading. <i>Nano Energy</i> , 2020 , 78, 105396	17.1	3
14	Efficient WO ₃ nanoplates photoanode based on bidentate hydrogen bonds and thermal reduction of ethylene glycol. <i>Chemical Engineering Journal</i> , 2021 , 404, 127089	14.7	3
13	RhB Adsorption Performance of Magnetic Adsorbent Fe ₃ O ₄ /RGO Composite and Its Regeneration through A Fenton-like Reaction 2014 , 6, 125		2
12	Multistep Surface Trap State Finishing Based on in Situ One-Step MOF Modification over Hematite for Dramatically Enhanced Solar Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33638-33646	9.5	2
11	Solubility of 2,2',6,6'-Tetrabromo-4,4'-isopropylidene Phenol in Aqueous Pollutant Solutions. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 3150-3154	2.8	1
10	Effect of Structural Parameters of TiO ₂ Nanotube Arrays upon Their Photocatalytic/Photoelectrocatalytic Performance. <i>Chinese Journal of Chemistry</i> , 2011 , 29, 2236-2242	4.9	1
9	Enhanced Photoelectrocatalytic Degradation of Azo-Dye Pollutants Using Transparent Titania Nanotube Arrays Glass Electrode. <i>Advanced Materials Research</i> , 2011 , 311-313, 2089-2092	0.5	1
8	Photoelectrochemical degradation of methyl orange by TiO ₂ nanopore arrays electrode and its comparison with TiO ₂ nanotube arrays electrode. <i>Water Science and Technology</i> , 2010 , 62, 2783-9	2.2	1
7	Treatment of hazardous organic amine wastewater and simultaneous electricity generation using photocatalytic fuel cell based on TiO ₂ /WO ₃ photoanode and Cu nanowires cathode. <i>Chemosphere</i> , 2021 , 289, 133119	8.4	1
6	High Yield of CO and Synchronous S Recovery from the Conversion of CO and HS in Natural Gas Based on a Novel Electrochemical Reactor. <i>Environmental Science & Technology</i> , 2021 , 55, 14854-14862	10.3	1
5	Highly efficient removal of total nitrogen and dissolved organic compound in waste reverse osmosis concentrate mediated by chlorine radical on 3D CoO nanowires anode. <i>Journal of Hazardous Materials</i> , 2021 , 127662	12.8	1
4	Effect of oxygen concentration and distribution on holes transfer and photoelectrocatalytic properties in hematite. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 7309-7319	6.7	1
3	Simple method to quantify extraneous water and organic matter degradation in sewer networks. <i>Environmental Science: Water Research and Technology</i> , 2021 , 7, 172-183	4.2	1
2	Photoelectrocatalytic generation of H ₂ and S from toxic H ₂ S by using a novel BiOI/WO ₃ nanoflake array photoanode. <i>Frontiers in Energy</i> , 2021 , 15, 744	2.6	0
1	The Promotion Effect and Mechanism of Methanoic Acid on the Photoelectrocatalytic Degradation of Fulvic Acid. <i>Journal of Chemistry</i> , 2016 , 2016, 1-7	2.3	