Jinhua Li

List of Publications by Year in descending order

92 papers	4,047 citations	94381 37 h-index	128225 60 g-index
94 all docs	94 docs citations	94 times ranked	3968 citing authors

#	Article	IF	Citations
1	Occurrence and suitability of pharmaceuticals and personal care products as molecular markers for raw wastewater contamination in surface water and groundwater. Environmental Science and Pollution Research, 2014, 21, 4727-4740.	2.7	174
2	Visible-Light Responsive Photocatalytic Fuel Cell Based on WO₃/W Photoanode and Cu₂O/Cu Photocathode for Simultaneous Wastewater Treatment and Electricity Generation. Environmental Science & Technology, 2012, 46, 11451-11458.	4.6	167
3	A highly efficient BiVO 4 /WO 3 /W heterojunction photoanode for visible-light responsive dual photoelectrode photocatalytic fuel cell. Applied Catalysis B: Environmental, 2016, 183, 224-230.	10.8	151
4	Suitability of artificial sweeteners as indicators of raw wastewater contamination in surface water and groundwater. Water Research, 2014, 48, 443-456.	5.3	148
5	Efficient electricity production and simultaneously wastewater treatment via a high-performance photocatalytic fuel cell. Water Research, 2011, 45, 3991-3998.	5.3	138
6	Synthesis of WO3/BiVO4 photoanode using a reaction of bismuth nitrate with peroxovanadate on WO3 film for efficient photoelectrocatalytic water splitting and organic pollutant degradation. Applied Catalysis B: Environmental, 2017, 217, 21-29.	10.8	134
7	High-performance BiVO4 photoanodes cocatalyzed with an ultrathin Î±-Fe2O3 layer for photoelectrochemical application. Applied Catalysis B: Environmental, 2017, 204, 127-133.	10.8	133
8	Highly selective transformation of ammonia nitrogen to N2 based on a novel solar-driven photoelectrocatalytic-chlorine radical reactions system. Water Research, 2017, 125, 512-519.	5.3	127
9	Bird-nest structured ZnO/TiO2 as a direct Z-scheme photoanode with enhanced light harvesting and carriers kinetics for highly efficient and stable photoelectrochemical water splitting. Applied Catalysis B: Environmental, 2020, 267, 118599.	10.8	116
10	Preparation of vertically aligned WO3 nanoplate array films based on peroxotungstate reduction reaction and their excellent photoelectrocatalytic performance. Applied Catalysis B: Environmental, 2017, 202, 388-396.	10.8	114
11	Photoelectrocatalytic degradation of refractory organic compounds enhanced by a photocatalytic fuel cell. Applied Catalysis B: Environmental, 2012, 111-112, 485-491.	10.8	110
12	A solar light driven dual photoelectrode photocatalytic fuel cell (PFC) for simultaneous wastewater treatment and electricity generation. Journal of Hazardous Materials, 2016, 311, 51-62.	6.5	103
13	Exhaustive Conversion of Inorganic Nitrogen to Nitrogen Gas Based on a Photoelectro-Chlorine Cycle Reaction and a Highly Selective Nitrogen Gas Generation Cathode. Environmental Science & Technology, 2018, 52, 1413-1420.	4.6	87
14	Highly-stable and efficient photocatalytic fuel cell based on an epitaxial TiO2/WO3/W nanothorn photoanode and enhanced radical reactions for simultaneous electricity production and wastewater treatment. Applied Energy, 2018, 220, 127-137.	5.1	87
15	Enhanced organic pollutants degradation and electricity production simultaneously via strengthening the radicals reaction in a novel Fenton-photocatalytic fuel cell system. Water Research, 2017, 108, 293-300.	5.3	84
16	Extremely Efficient Decomposition of Ammonia N to N₂ Using ClO^{â€¢} from Reactions of HO^{â€¢} and HOCl Generated in Situ on a Novel Bifacial Photoelectroanode. Environmental Science & Technology, 2019, 53, 6945-6953.	4.6	84
17	Dramatically enhanced solar-driven water splitting of BiVO4 photoanode via strengthening hole transfer and light harvesting by co-modification of CQDs and ultrathin Î²-FeOOH layers. Chemical Engineering Journal, 2021, 403, 126350.	6.6	82
18	A novel in situ preparation method for nanostructured Î±-Fe₂O₃ films from electrodeposited Fe films for efficient photoelectrocatalytic water splitting and the degradation of organic pollutants. Journal of Materials Chemistry A, 2015, 3, 4345-4353.	5.2	79

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19	BiVO4/TiO2(N2) Nanotubes Heterojunction Photoanode for Highly Efficient Photoelectrocatalytic Applications. Nano-Micro Letters, 2017, 9, 14.	14.4	66
20	A low-cost photoelectrochemical tandem cell for highly-stable and efficient solar water splitting. Nano Energy, 2017, 41, 225-232.	8.2	62
21	Combined nanostructured Bi2S3/TNA photoanode and Pt/SiPVC photocathode for efficient self-biasing photoelectrochemical hydrogen and electricity generation. Nano Energy, 2014, 9, 152-160.	8.2	59
22	BiVO4 Photoanode with Exposed (040) Facets for Enhanced Photoelectrochemical Performance. Nano-Micro Letters, 2018, 10, 11.	14.4	58
23	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. Applied Catalysis B: Environmental, 2018, 238, 168-176.	10.8	58
24	A novel thin-layer photoelectrocatalytic (PEC) reactor with double-faced titania nanotube arrays electrode for effective degradation of tetracycline. Applied Catalysis B: Environmental, 2010, 98, 154-160.	10.8	57
25	Enhanced Photoelectrochemical Properties of Cu2O-loaded Short TiO2 Nanotube Array Electrode Prepared by Sonoelectrochemical Deposition. Nano-Micro Letters, 2010, 2, 277-284.	14.4	55
26	Dramatic enhancement of organics degradation and electricity generation via strengthening superoxide radical by using a novel 3D AQS/PPy-GF cathode. Water Research, 2017, 125, 259-269.	5.3	53
27	Electrochemically reduced TiO2 photoanode coupled with oxygen vacancy-rich carbon quantum dots for synergistically improving photoelectrochemical performance. Chemical Engineering Journal, 2021, 425, 131770.	6.6	53
28	Photoeletrocatalytic activity of an n-ZnO/p-Cu2O/n-TNA ternary heterojunction electrode for tetracycline degradation. Journal of Hazardous Materials, 2013, 262, 482-488.	6.5	52
29	Influence of the presence of heavy metals and surface-active compounds on the sorption of bisphenol A to sediment. Chemosphere, 2007, 68, 1298-1303.	4.2	51
30	Comparison of photoelectrochemical properties of TiO2-nanotube-array photoanode prepared by anodization in different electrolyte. Environmental Chemistry Letters, 2009, 7, 363-368.	8.3	48
31	A novel 3D ZnO/Cu₂O nanowire photocathode material with highly efficient photoelectrocatalytic performance. Journal of Materials Chemistry A, 2015, 3, 22996-23002.	5.2	46
32	Serial hole transfer layers for a BiVO₄photoanode with enhanced photoelectrochemical water splitting. Nanoscale, 2018, 10, 18378-18386.	2.8	44
33	Exhaustive denitrification via chlorine oxide radical reactions for urea based on a novel photoelectrochemical cell. Water Research, 2020, 170, 115357.	5.3	44
34	Application of cleaner production in a Chinese magnesia refractory material plant. Journal of Cleaner Production, 2016, 113, 1015-1023.	4.6	42
35	Novel 3D Pd-Cu(OH)2/CF cathode for rapid reduction of nitrate-N and simultaneous total nitrogen removal from wastewater. Journal of Hazardous Materials, 2021, 401, 123232.	6.5	40
36	Efficient ammonia removal and toxic chlorate control by using BiVO4/WO3 heterojunction photoanode in a self-driven PEC-chlorine system. Journal of Hazardous Materials, 2021, 402, 123725.	6.5	40

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37	The Inhibition Effect of Tert-Butyl Alcohol on the TiO2 Nano Assays Photoelectrocatalytic Degradation of Different Organics and Its Mechanism. Nano-Micro Letters, 2016, 8, 221-231.	14.4	39
38	Comparative life cycle assessment of conventional and new fused magnesia production. Journal of Cleaner Production, 2015, 91, 170-179.	4.6	38
39	Efficient wastewater treatment and simultaneously electricity production using a photocatalytic fuel cell based on the radical chain reactions initiated by dual photoelectrodes. Journal of Hazardous Materials, 2017, 337, 47-54.	6.5	36
40	Oxygen vacancy-abundant carbon quantum dots as superfast hole transport channel for vastly improving surface charge transfer efficiency of BiVO4 photoanode. Chemical Engineering Journal, 2022, 431, 133414.	6.6	36
41	Self-Driven Photoelectrochemical Splitting of H₂S for S and H₂ Recovery and Simultaneous Electricity Generation. Environmental Science & Technology, 2017, 51, 12965-12971.	4.6	35
42	Efficient degradation of N-containing organic wastewater via chlorine oxide radical generated by a photoelectrochemical system. Chemical Engineering Journal, 2020, 392, 123695.	6.6	35
43	Influence of the coexisting contaminants on bisphenol A sorption and desorption in soil. Journal of Hazardous Materials, 2008, 151, 389-393.	6.5	34
44	Life cycle assessment of industrial symbiosis in Songmudao chemical industrial park, Dalian, China. Journal of Cleaner Production, 2017, 158, 192-199.	4.6	33
45	The effect and mechanism of organic pollutants oxidation and chemical energy conversion for neutral wastewater via strengthening reactive oxygen species. Science of the Total Environment, 2019, 651, 1226-1235.	3.9	32
46	Performance analysis and evaluation of the 146 rural decentralized wastewater treatment facilities surrounding the Erhai Lake. Journal of Cleaner Production, 2021, 315, 128159.	4.6	30
47	Highly efficient removal of total nitrogen and dissolved organic compound in waste reverse osmosis concentrate mediated by chlorine radical on 3D Co3O4 nanowires anode. Journal of Hazardous Materials, 2022, 424, 127662.	6.5	30
48	Highly efficient total nitrogen and simultaneous total organic carbon removal for urine based on the photoelectrochemical cycle reaction of chlorine and hydroxyl radicals. Electrochimica Acta, 2019, 297, 1-9.	2.6	27
49	The design of high performance photoanode of CQDs/TiO2/WO3 based on DFT alignment of lattice parameter and energy band, and charge distribution. Journal of Colloid and Interface Science, 2021, 600, 828-837.	5.0	27
50	Efficient SO₂ Removal and Highly Synergistic H₂O₂ Production Based on a Novel Dual-Function Photoelectrocatalytic System. Environmental Science & Technology, 2020, 54, 11515-11525.	4.6	25
51	The hazardous hexavalent chromium formed on trivalent chromium conversion coating: The origin, influence factors and control measures. Journal of Hazardous Materials, 2012, 221-222, 56-61.	6.5	24
52	High-efficient energy recovery from organics degradation for neutral wastewater treatment based on radicals catalytic reaction of Fe2+/Fe3+-EDTA complexes. Chemosphere, 2018, 201, 59-65.	4.2	24
53	High yield of H2O2 and efficient S recovery from toxic H2S splitting through a self-driven photoelectrocatalytic system with a microporous GDE cathode. Applied Catalysis B: Environmental, 2018, 238, 491-497.	10.8	24
54	Electron blocking and hole extraction by a dual-function layer for hematite with enhanced photoelectrocatalytic performance. Applied Catalysis B: Environmental, 2018, 237, 175-184.	10.8	23

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55	Novel Denitrification Fuel Cell for Energy Recovery of Nitrate-N and TN Removal Based on NH₄⁺ Generation on a CNW@CF Cathode. Environmental Science & Technology, 2022, 56, 2562-2571.	4.6	23
56	Enhanced photoelectrocatalytic performance of nanoporous WO3 photoanode by modification of cobaltâ€“phosphate (Coâ€“Pi) catalyst. Journal of Solid State Electrochemistry, 2014, 18, 157-161.	1.2	22
57	Application of Emergy Analysis to the Sustainability Evaluation of Municipal Wastewater Treatment Plants. Sustainability, 2017, 9, 8.	1.6	22
58	Enhanced O2â˙ and HO via in situ generating H2O2 at activated graphite felt cathode for efficient photocatalytic fuel cell. Chemical Engineering Journal, 2020, 399, 125839.	6.6	22
59	Preparation of hematite with an ultrathin iron titanate layer via an in situ reaction and its stable, long-lived, and excellent photoelectrochemical performance. Applied Catalysis B: Environmental, 2017, 218, 690-699.	10.8	21
60	Impact of wastewater treatment plant effluent on an urban river. Journal of Freshwater Ecology, 2017, 32, 697-710.	0.5	21
61	Efficient purification and chemical energy recovery from urine by using a denitrifying fuel cell. Water Research, 2019, 152, 117-125.	5.3	21
62	Efficient denitrification and removal of natural organic matter, emerging pollutants simultaneously for RO concentrate based on photoelectrocatalytic radical reaction. Separation and Purification Technology, 2020, 234, 116032.	3.9	19
63	<scp>LCA</scp> as a decision support tool for evaluating cleaner production schemes in iron making industry. Environmental Progress and Sustainable Energy, 2016, 35, 195-203.	1.3	18
64	Treatment of hazardous organic amine wastewater and simultaneous electricity generation using photocatalytic fuel cell based on TiO2/WO3 photoanode and Cu nanowires cathode. Chemosphere, 2022, 289, 133119.	4.2	17
65	The Promotion Effect of Low-Molecular Hydroxyl Compounds on the Nano-Photoelectrocatalytic Degradation of Fulvic Acid and Mechanism. Nano-Micro Letters, 2016, 8, 320-327.	14.4	16
66	Efficient Degradation of Refractory Organics Using Sulfate Radicals Generated Directly from WO3 Photoelectrode and the Catalytic Reaction of Sulfate. Catalysts, 2017, 7, 346.	1.6	16
67	Rapid Conversion of Co²⁺ to Co³⁺ by Introducing Oxygen Vacancies in Co₃O₄ Nanowire Anodes for Nitrogen Removal with Highly Efficient H₂ Recovery in Urine Treatment. Environmental Science & Technology, 2022, 56, 9693-9701.	4.6	16
68	Efficient TN removal and simultaneous TOC conversion for highly toxic organic amines based on a photoelectrochemical-chlorine radicals process. Catalysis Today, 2019, 335, 452-459.	2.2	14
69	Efficient urine removal, simultaneous elimination of emerging contaminants, and control of toxic chlorate in a photoelectrocatalytic-chlorine system. Environmental Pollution, 2020, 267, 115605.	3.7	14
70	Efficient organic pollutants conversion and electricity generation for carbonate-containing wastewater based on carbonate radical reactions initiated by BiVO4-Au/PVC system. Journal of Hazardous Materials, 2020, 389, 122140.	6.5	14
71	Effect of Oxygenâ€“Iron Composition on Charge Transport and Interface Reaction in Hematite. ACS Catalysis, 2020, 10, 2413-2418.	5.5	14
72	High Yield of CO and Synchronous S Recovery from the Conversion of CO₂ and H₂S in Natural Gas Based on a Novel Electrochemical Reactor. Environmental Science & Technology, 2021, 55, 14854-14862.	4.6	14

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73	Assessment of a COD analytical method based on the photoelectrocatalysis of a TiO2 nanotube array sensor. Analytical Methods, 2012, 4, 1790.	1.3	13
74	TiO₂ Nanotube Sensor for Online Chemical Oxygen Demand Determination in Conjunction with Flow Injection Technique. Water Environment Research, 2014, 86, 532-539.	1.3	12
75	Efficient WO3â^'x nanoplates photoanode based on bidentate hydrogen bonds and thermal reduction of ethylene glycol. Chemical Engineering Journal, 2021, 404, 127089.	6.6	11
76	Kinetics and Mechanisms for Photoelectrochemical Degradation of Glucose on Highly Effective Self-Organized TiO2 Nanotube Arrays. Chinese Journal of Catalysis, 2010, 31, 163-170.	6.9	10
77	Life cycle assessment in urban territories: a case study of Dalian city, China. International Journal of Life Cycle Assessment, 2019, 24, 1194-1208.	2.2	9
78	Simulation and engineering demonstration of the advanced treatment of rainy overflow wastewater using a combined system of storage tankâ€wastewater treatment plantâ€wetland. Water Environment Research, 2020, 92, 1057-1069.	1.3	8
79	Tungsten sulfide co-catalytic radical chain-reaction for efficient organics degradation and electricity generation. Applied Catalysis B: Environmental, 2020, 268, 118471.	10.8	7
80	Photoelectrocatalytic Performance of Benzoic Acid onTiO2Nanotube Array Electrodes. International Journal of Photoenergy, 2013, 2013, 1-7.	1.4	6
81	Photoelectrocatalytic generation of H2 and S from toxic H2S by using a novel BiOI/WO3 nanoflake array photoanode. Frontiers in Energy, 2021, 15, 744.	1.2	6
82	Multistep Surface Trap State Finishing Based on in Situ One-Step MOF Modification over Hematite for Dramatically Enhanced Solar Water Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 33638-33646.	4.0	5
83	Surface metal valence state regulating on hematite to weaken dependence of charge transport to catalyst loading. Nano Energy, 2020, 78, 105396.	8.2	5
84	Effect of oxygen concentration and distribution on holes transfer and photoelectrocatalytic properties in hematite. International Journal of Hydrogen Energy, 2021, 46, 7309-7319.	3.8	5
85	Adsorption and photoelectrocatalytic characteristics of organics on TiO2 nanotube arrays. Journal of Solid State Electrochemistry, 2012, 16, 3907-3914.	1.2	4
86	Enhanced Photoelectrochemical Properties of Cu2O-loaded Short TiO2 Nanotube Array Electrode Prepared by Sonoelectrochemical Deposition. , 2010, 2, 277.		4
87	Industrial metabolism analysis of a Chinese wine industry chain based on material flow and inputâ€“output analyses. Journal of Industrial Ecology, 2022, 26, 448-461.	2.8	3
88	Efficient Hydrogen Generation and Total Nitrogen Removal for Urine Treatment in a Neutral Solution Based on a Self-Driving Nano Photoelectrocatalytic System. Nanomaterials, 2021, 11, 2777.	1.9	3
89	Effect of Structural Parameters of TiO₂ Nanotube Arrays upon Their Photocatalytic/Photoelectrocatalytic Performance. Chinese Journal of Chemistry, 2011, 29, 2236-2242.	2.6	2
90	Simple method to quantify extraneous water and organic matter degradation in sewer networks. Environmental Science: Water Research and Technology, 2021, 7, 172-183.	1.2	2

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91	Comparative life cycle assessment of rex rabbit breeding industry chains: benefits of a circular industry chain. International Journal of Life Cycle Assessment, 2022, 27, 366-379.	2.2	2
92	The Promotion Effect and Mechanism of Methanoic Acid on the Photoelectrocatalytic Degradation of Fulvic Acid. Journal of Chemistry, 2016, 2016, 1-7.	0.9	0