

Jinhua Li

List of Publications by Year in descending order

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92
papers

4,047
citations

94433

37
h-index

128289

60
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94
all docs

94
docs citations

94
times ranked

3968
citing authors

#	ARTICLE	IF	CITATIONS
1	Industrial metabolism analysis of a Chinese wine industry chain based on material flow and input-output analyses. <i>Journal of Industrial Ecology</i> , 2022, 26, 448-461.	5.5	3
2	Highly efficient removal of total nitrogen and dissolved organic compound in waste reverse osmosis concentrate mediated by chlorine radical on 3D Co ₃ O ₄ nanowires anode. <i>Journal of Hazardous Materials</i> , 2022, 424, 127662.	12.4	30
3	Oxygen vacancy-abundant carbon quantum dots as superfast hole transport channel for vastly improving surface charge transfer efficiency of BiVO ₄ photoanode. <i>Chemical Engineering Journal</i> , 2022, 431, 133414.	12.7	36
4	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> , 2022, 289, 133119.	8.2	17
5	Novel Denitrification Fuel Cell for Energy Recovery of Nitrate-N and TN Removal Based on NH ₄ ⁺ Generation on a CNW@CF Cathode. <i>Environmental Science & Technology</i> , 2022, 56, 2562-2571.	10.0	23
6	Comparative life cycle assessment of rex rabbit breeding industry chains: benefits of a circular industry chain. <i>International Journal of Life Cycle Assessment</i> , 2022, 27, 366-379.	4.7	2
7	Rapid Conversion of Co ²⁺ to Co ³⁺ by Introducing Oxygen Vacancies in Co ₃ O ₄ Nanowire Anodes for Nitrogen Removal with Highly Efficient H ₂ Recovery in Urine Treatment. <i>Environmental Science & Technology</i> , 2022, 56, 9693-9701.	10.0	16
8	Efficient WO ₃ ^x nanoplates photoanode based on bidentate hydrogen bonds and thermal reduction of ethylene glycol. <i>Chemical Engineering Journal</i> , 2021, 404, 127089.	12.7	11
9	Dramatically enhanced solar-driven water splitting of BiVO ₄ photoanode via strengthening hole transfer and light harvesting by co-modification of CQDs and ultrathin FeOOH layers. <i>Chemical Engineering Journal</i> , 2021, 403, 126350.	12.7	82
10	Novel 3D Pd-Cu(OH) ₂ /CF cathode for rapid reduction of nitrate-N and simultaneous total nitrogen removal from wastewater. <i>Journal of Hazardous Materials</i> , 2021, 401, 123232.	12.4	40
11	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.	12.4	40
12	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.	7.1	5
13	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.	2.3	6
14	Performance analysis and evaluation of the 146 rural decentralized wastewater treatment facilities surrounding the Erhai Lake. <i>Journal of Cleaner Production</i> , 2021, 315, 128159.	9.3	30
15	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.	9.4	27
16	Electrochemically reduced TiO ₂ photoanode coupled with oxygen vacancy-rich carbon quantum dots for synergistically improving photoelectrochemical performance. <i>Chemical Engineering Journal</i> , 2021, 425, 131770.	12.7	53
17	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.	2.4	2
18	Efficient Hydrogen Generation and Total Nitrogen Removal for Urine Treatment in a Neutral Solution Based on a Self-Driving Nano Photoelectrocatalytic System. <i>Nanomaterials</i> , 2021, 11, 2777.	4.1	3

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19	High Yield of CO and Synchronous S Recovery from the Conversion of CO ₂ and H ₂ S in Natural Gas Based on a Novel Electrochemical Reactor. <i>Environmental Science & Technology</i> , 2021, 55, 14854-14862.	10.0	14
20	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.	7.9	19
21	Efficient degradation of N-containing organic wastewater via chlorine oxide radical generated by a photoelectrochemical system. <i>Chemical Engineering Journal</i> , 2020, 392, 123695.	12.7	35
22	Tungsten sulfide co-catalytic radical chain-reaction for efficient organics degradation and electricity generation. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118471.	20.2	7
23	Exhaustive denitrification via chlorine oxide radical reactions for urea based on a novel photoelectrochemical cell. <i>Water Research</i> , 2020, 170, 115357.	11.3	44
24	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.	8.0	5
25	Efficient SO ₂ Removal and Highly Synergistic H ₂ O ₂ Production Based on a Novel Dual-Function Photoelectrocatalytic System. <i>Environmental Science & Technology</i> , 2020, 54, 11515-11525.	10.0	25
26	Surface metal valence state regulating on hematite to weaken dependence of charge transport to catalyst loading. <i>Nano Energy</i> , 2020, 78, 105396.	16.0	5
27	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.	7.5	14
28	Enhanced O ₂ and HO via in situ generating H ₂ O ₂ at activated graphite felt cathode for efficient photocatalytic fuel cell. <i>Chemical Engineering Journal</i> , 2020, 399, 125839.	12.7	22
29	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.	12.4	14
30	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.	2.7	8
31	Effect of Oxygen-Iron Composition on Charge Transport and Interface Reaction in Hematite. <i>ACS Catalysis</i> , 2020, 10, 2413-2418.	11.2	14
32	Bird-nest structured ZnO/TiO ₂ as a direct Z-scheme photoanode with enhanced light harvesting and carriers kinetics for highly efficient and stable photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118599.	20.2	116
33	Life cycle assessment in urban territories: a case study of Dalian city, China. <i>International Journal of Life Cycle Assessment</i> , 2019, 24, 1194-1208.	4.7	9
34	Extremely Efficient Decomposition of Ammonia N to N ₂ Using ClO [•] from Reactions of HO [•] and HOCl Generated <i>in Situ</i> on a Novel Bifacial Photoelectroanode. <i>Environmental Science & Technology</i> , 2019, 53, 6945-6953.	10.0	84
35	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.	4.4	14
36	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.	5.2	27

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37	Efficient purification and chemical energy recovery from urine by using a denitrifying fuel cell. <i>Water Research</i> , 2019, 152, 117-125.	11.3	21
38	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.	8.0	32
39	High-efficient energy recovery from organics degradation for neutral wastewater treatment based on radicals catalytic reaction of Fe ²⁺ /Fe ³⁺ -EDTA complexes. <i>Chemosphere</i> , 2018, 201, 59-65.	8.2	24
40	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.	10.0	87
41	Highly-stable and efficient photocatalytic fuel cell based on an epitaxial TiO ₂ /WO ₃ /W nanothorn photoanode and enhanced radical reactions for simultaneous electricity production and wastewater treatment. <i>Applied Energy</i> , 2018, 220, 127-137.	10.1	87
42	BiVO ₄ Photoanode with Exposed (040) Facets for Enhanced Photoelectrochemical Performance. <i>Nano-Micro Letters</i> , 2018, 10, 11.	27.0	58
43	Serial hole transfer layers for a BiVO ₄ photoanode with enhanced photoelectrochemical water splitting. <i>Nanoscale</i> , 2018, 10, 18378-18386.	5.6	44
44	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.	20.2	23
45	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.	20.2	24
46	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.	20.2	58
47	Life cycle assessment of industrial symbiosis in Songmudao chemical industrial park, Dalian, China. <i>Journal of Cleaner Production</i> , 2017, 158, 192-199.	9.3	33
48	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.	20.2	134
49	A low-cost photoelectrochemical tandem cell for highly-stable and efficient solar water splitting. <i>Nano Energy</i> , 2017, 41, 225-232.	16.0	62
50	Self-Driven Photoelectrochemical Splitting of H ₂ S for S and H ₂ Recovery and Simultaneous Electricity Generation. <i>Environmental Science & Technology</i> , 2017, 51, 12965-12971.	10.0	35
51	Highly selective transformation of ammonia nitrogen to N ₂ based on a novel solar-driven photoelectrocatalytic-chlorine radical reactions system. <i>Water Research</i> , 2017, 125, 512-519.	11.3	127
52	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.	11.3	53
53	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.	20.2	21
54	High-performance BiVO ₄ photoanodes cocatalyzed with an ultrathin γ -Fe ₂ O ₃ layer for photoelectrochemical application. <i>Applied Catalysis B: Environmental</i> , 2017, 204, 127-133.	20.2	133

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55	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.	11.3	84
56	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.	20.2	114
57	BiVO ₄ /TiO ₂ (N ₂) Nanotubes Heterojunction Photoanode for Highly Efficient Photoelectrocatalytic Applications. <i>Nano-Micro Letters</i> , 2017, 9, 14.	27.0	66
58	Impact of wastewater treatment plant effluent on an urban river. <i>Journal of Freshwater Ecology</i> , 2017, 32, 697-710.	1.2	21
59	Application of Energy Analysis to the Sustainability Evaluation of Municipal Wastewater Treatment Plants. <i>Sustainability</i> , 2017, 9, 8.	3.2	22
60	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.	3.5	16
61	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.	12.4	36
62	The Promotion Effect and Mechanism of Methanoic Acid on the Photoelectrocatalytic Degradation of Fulvic Acid. <i>Journal of Chemistry</i> , 2016, 2016, 1-7.	1.9	0
63	<sc>LCA</sc> as a decision support tool for evaluating cleaner production schemes in iron making industry. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 195-203.	2.3	18
64	The Inhibition Effect of Tert-Butyl Alcohol on the TiO ₂ Nano Assays Photoelectrocatalytic Degradation of Different Organics and Its Mechanism. <i>Nano-Micro Letters</i> , 2016, 8, 221-231.	27.0	39
65	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.	27.0	16
66	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.	20.2	151
67	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.	12.4	103
68	Application of cleaner production in a Chinese magnesia refractory material plant. <i>Journal of Cleaner Production</i> , 2016, 113, 1015-1023.	9.3	42
69	A novel in situ preparation method for nanostructured Fe ₂ O 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.	10.3	79
70	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.	10.3	46
71	Comparative life cycle assessment of conventional and new fused magnesia production. <i>Journal of Cleaner Production</i> , 2015, 91, 170-179.	9.3	38
72	TiO ₂ Nanotube Sensor for Online Chemical Oxygen Demand Determination in Conjunction with Flow Injection Technique. <i>Water Environment Research</i> , 2014, 86, 532-539.	2.7	12

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73	Occurrence and suitability of pharmaceuticals and personal care products as molecular markers for raw wastewater contamination in surface water and groundwater. <i>Environmental Science and Pollution Research</i> , 2014, 21, 4727-4740.	5.3	174
74	Combined nanostructured Bi ₂ S ₃ /TNA photoanode and Pt/SiPVC photocathode for efficient self-biasing photoelectrochemical hydrogen and electricity generation. <i>Nano Energy</i> , 2014, 9, 152-160.	16.0	59
75	Enhanced photoelectrocatalytic performance of nanoporous WO ₃ photoanode by modification of cobalt-phosphate (Co-Pi) catalyst. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 157-161.	2.5	22
76	Suitability of artificial sweeteners as indicators of raw wastewater contamination in surface water and groundwater. <i>Water Research</i> , 2014, 48, 443-456.	11.3	148
77	Photoelectrocatalytic activity of an n-ZnO/p-Cu ₂ O/n-TNA ternary heterojunction electrode for tetracycline degradation. <i>Journal of Hazardous Materials</i> , 2013, 262, 482-488.	12.4	52
78	Photoelectrocatalytic Performance of Benzoic Acid on TiO ₂ Nanotube Array Electrodes. <i>International Journal of Photoenergy</i> , 2013, 2013, 1-7.	2.5	6
79	Adsorption and photoelectrocatalytic characteristics of organics on TiO ₂ nanotube arrays. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 3907-3914.	2.5	4
80	Assessment of a COD analytical method based on the photoelectrocatalysis of a TiO ₂ nanotube array sensor. <i>Analytical Methods</i> , 2012, 4, 1790.	2.7	13
81	Visible-Light Responsive Photocatalytic Fuel Cell Based on WO ₃ /W Photoanode and Cu ₂ O/Cu Photocathode for Simultaneous Wastewater Treatment and Electricity Generation. <i>Environmental Science & Technology</i> , 2012, 46, 11451-11458.	10.0	167
82	Photoelectrocatalytic degradation of refractory organic compounds enhanced by a photocatalytic fuel cell. <i>Applied Catalysis B: Environmental</i> , 2012, 111-112, 485-491.	20.2	110
83	The hazardous hexavalent chromium formed on trivalent chromium conversion coating: The origin, influence factors and control measures. <i>Journal of Hazardous Materials</i> , 2012, 221-222, 56-61.	12.4	24
84	Efficient electricity production and simultaneously wastewater treatment via a high-performance photocatalytic fuel cell. <i>Water Research</i> , 2011, 45, 3991-3998.	11.3	138
85	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	2
86	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.	20.2	57
87	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.	14.0	10
88	Enhanced Photoelectrochemical Properties of Cu ₂ O-loaded Short TiO ₂ Nanotube Array Electrode Prepared by Sonochemical Deposition. <i>Nano-Micro Letters</i> , 2010, 2, 277-284.	27.0	55
89	Enhanced Photoelectrochemical Properties of Cu ₂ O-loaded Short TiO ₂ Nanotube Array Electrode Prepared by Sonochemical Deposition. , 2010, 2, 277.		4
90	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.	16.2	48

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91	Influence of the coexisting contaminants on bisphenol A sorption and desorption in soil. <i>Journal of Hazardous Materials</i> , 2008, 151, 389-393.	12.4	34
92	Influence of the presence of heavy metals and surface-active compounds on the sorption of bisphenol A to sediment. <i>Chemosphere</i> , 2007, 68, 1298-1303.	8.2	51