

# Xiangkai Li

## List of Publications by Year in descending order

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113  
papers

4,223  
citations

101543

36  
h-index

138484

58  
g-index

116  
all docs

116  
docs citations

116  
times ranked

4472  
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical review of clay-based composites with enhanced adsorption performance for metal and organic pollutants. <i>Journal of Hazardous Materials</i> , 2019, 369, 780-796.	12.4	314
2	A critical review on the interaction of substrate nutrient balance and microbial community structure and function in anaerobic co-digestion. <i>Bioresource Technology</i> , 2018, 247, 1119-1127.	9.6	201
3	Photocatalytic dye degradation and antimicrobial activities of Pure and Ag-doped ZnO using Cannabis sativa leaf extract. <i>Scientific Reports</i> , 2020, 10, 7881.	3.3	159
4	A review on the applications of microbial electrolysis cells in anaerobic digestion. <i>Bioresource Technology</i> , 2018, 255, 340-348.	9.6	151
5	Lignin depolymerization and utilization by bacteria. <i>Bioresource Technology</i> , 2018, 269, 557-566.	9.6	145
6	Advances in Understanding How Heavy Metal Pollution Triggers Gastric Cancer. <i>BioMed Research International</i> , 2016, 2016, 1-10.	1.9	107
7	A novel <i>Pseudomonas gessardii</i> strain LZ-E simultaneously degrades naphthalene and reduces hexavalent chromium. <i>Bioresource Technology</i> , 2016, 207, 370-378.	9.6	102
8	Microbial Fuels Cell-Based Biosensor for Toxicity Detection: A Review. <i>Sensors</i> , 2017, 17, 2230.	3.8	87
9	Heavy metals interact with the microbial community and affect biogas production in anaerobic digestion: A review. <i>Journal of Environmental Management</i> , 2019, 240, 266-272.	7.8	87
10	Recent advances in the recovery of metals from waste through biological processes. <i>Bioresource Technology</i> , 2020, 297, 122416.	9.6	85
11	NAT10 promotes gastric cancer metastasis via N4-acetylated COL5A1. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 173.	17.1	77
12	Regulation of Arsenate Resistance in <i>Desulfovibrio desulfuricans</i> G20 by an arsRBCC Operon and an arsC Gene. <i>Journal of Bacteriology</i> , 2007, 189, 3705-3711.	2.2	76
13	A Review on Gut Remediation of Selected Environmental Contaminants: Possible Roles of Probiotics and Gut Microbiota. <i>Nutrients</i> , 2019, 11, 22.	4.1	76
14	A novel biosensor for p-nitrophenol based on an aerobic anode microbial fuel cell. <i>Biosensors and Bioelectronics</i> , 2016, 85, 860-868.	10.1	73
15	Microbial Community Structure and Function Indicate the Severity of Chromium Contamination of the Yellow River. <i>Frontiers in Microbiology</i> , 2018, 9, 38.	3.5	69
16	Simultaneous aerobic denitrification and Cr(VI) reduction by <i>Pseudomonas brassicacearum</i> LZ-4 in wastewater. <i>Bioresource Technology</i> , 2016, 221, 121-129.	9.6	68
17	<i>Lactobacillus plantarum</i> TW1-1 Alleviates Diethylhexylphthalate-Induced Testicular Damage in Mice by Modulating Gut Microbiota and Decreasing Inflammation. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 221.	3.9	68
18	<i>Limosilactobacillus fermentum</i> JL-3 isolated from Jiangshui ameliorates hyperuricemia by degrading uric acid. <i>Gut Microbes</i> , 2021, 13, 1-18.	9.8	68

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19	Improvements of thermophilic enzymes: From genetic modifications to applications. <i>Bioresource Technology</i> , 2019, 279, 350-361.	9.6	63
20	Therapeutic Potential and Biological Applications of Cordycepin and Metabolic Mechanisms in Cordycepin-Producing Fungi. <i>Molecules</i> , 2019, 24, 2231.	3.8	61
21	Anaerobic membrane bioreactors for treatment of emerging contaminants: A review. <i>Journal of Environmental Management</i> , 2020, 270, 110913.	7.8	61
22	Thioredoxin Is Involved in U(VI) and Cr(VI) Reduction in <i>Desulfovibrio desulfuricans</i> . <i>Journal of Bacteriology</i> , 2009, 191, 4924-4933.	2.2	59
23	A <i>Bacillus subtilis</i> strain can reduce hexavalent chromium to trivalent and an <i>nfrA</i> gene is involved. <i>International Biodeterioration and Biodegradation</i> , 2015, 97, 90-96.	3.9	58
24	Fate, risk and removal of triclocarban: A critical review. <i>Journal of Hazardous Materials</i> , 2020, 387, 121944.	12.4	54
25	Improving biogas production using additives in anaerobic digestion: A review. <i>Journal of Cleaner Production</i> , 2021, 297, 126666.	9.3	54
26	Enhanced anaerobic co-digestion of fat, oil, and grease by calcium addition: Boost of biomethane production and microbial community shift. <i>Bioresource Technology</i> , 2020, 296, 122353.	9.6	53
27	A Review on Nanoparticles as Boon for Biogas Producers—Nano Fuels and Biosensing Monitoring. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 59.	2.5	52
28	Genome sequencing reveals mechanisms for heavy metal resistance and polycyclic aromatic hydrocarbon degradation in <i>Delftia lacustris</i> strain LZ-C. <i>Ecotoxicology</i> , 2016, 25, 234-247.	2.4	50
29	The shifts of sediment microbial community phylogenetic and functional structures during chromium (VI) reduction. <i>Ecotoxicology</i> , 2016, 25, 1759-1770.	2.4	48
30	Gut remediation: a potential approach to reducing chromium accumulation using <i>Lactobacillus plantarum</i> TW1-1. <i>Scientific Reports</i> , 2017, 7, 15000.	3.3	45
31	A sustainable approach for efficient conversion of lignin into biodiesel accompanied by biological pretreatment of corn straw. <i>Energy Conversion and Management</i> , 2019, 199, 111928.	9.2	44
32	Highest accumulated microalgal lipids (polar and non-polar) for biodiesel production with advanced wastewater treatment: Role of lipidomics. <i>Bioresource Technology</i> , 2020, 298, 122299.	9.6	44
33	Determination of the inhibitory concentration level of fat, oil, and grease (FOG) towards bacterial and archaeal communities in anaerobic digestion. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 131, 110032.	16.4	44
34	A Novel Early Warning System Based on a Sediment Microbial Fuel Cell for In Situ and Real Time Hexavalent Chromium Detection in Industrial Wastewater. <i>Sensors</i> , 2018, 18, 642.	3.8	39
35	Can Omics Approaches Improve Microalgal Biofuels under Abiotic Stress?. <i>Trends in Plant Science</i> , 2019, 24, 611-624.	8.8	38
36	A novel biosensor for zinc detection based on microbial fuel cell system. <i>Biosensors and Bioelectronics</i> , 2020, 147, 111763.	10.1	38

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37	Immobilized-microbial bioaugmentation protects aerobic denitrification from heavy metal shock in an activated-sludge reactor. <i>Bioresource Technology</i> , 2020, 307, 123185.	9.6	37
38	Smart All-in-One Thermometer-Heater Nanoprobe Based on Postsynthetical Functionalization of a Eu(III)-Metal-Organic Framework. <i>Analytical Chemistry</i> , 2019, 91, 5225-5234.	6.5	36
39	Synergistic ammonia and fatty acids inhibition of microbial communities during slaughterhouse waste digestion for biogas production. <i>Bioresource Technology</i> , 2021, 337, 125383.	9.6	36
40	Contaminants in biochar and suggested mitigation measures – a review. <i>Chemical Engineering Journal</i> , 2022, 429, 132287.	12.7	34
41	Elevated Cr(VI) reduction in a biocathode microbial fuel cell without acclimatization inversion based on strain <i>Corynebacterium vitae</i> LZU47-1. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 3193-3203.	7.1	33
42	Co-expression of YieF and PhoN in <i>Deinococcus radiodurans</i> R1 improves uranium bioprecipitation by reducing chromium interference. <i>Chemosphere</i> , 2018, 211, 1156-1165.	8.2	32
43	Stochasticity versus determinism: Microbial community assembly patterns under specific conditions in petrochemical activated sludge. <i>Journal of Hazardous Materials</i> , 2021, 407, 124372.	12.4	32
44	Using <i>Aspergillus niger</i> whole-cell biocatalyst mycelial aerobic granular sludge to treat pharmaceutical wastewater containing $\beta$ -lactam antibiotics. <i>Chemical Engineering Journal</i> , 2021, 412, 128665.	12.7	30
45	The naphthalene catabolic protein NahG plays a key role in hexavalent chromium reduction in <i>Pseudomonas brassicaearum</i> LZ-4. <i>Scientific Reports</i> , 2017, 7, 9670.	3.3	29
46	Using nano-attapulgite clay compounded hydrophilic urethane foams (AT/HUFs) as biofilm support enhances oil-refinery wastewater treatment in a biofilm membrane bioreactor. <i>Science of the Total Environment</i> , 2019, 646, 606-617.	8.0	29
47	Micro-aeration in anode chamber promotes p-nitrophenol degradation and electricity generation in microbial fuel cell. <i>Bioresource Technology</i> , 2019, 285, 121291.	9.6	28
48	Tibet plateau probiotic mitigates chromate toxicity in mice by alleviating oxidative stress in gut microbiota. <i>Communications Biology</i> , 2020, 3, 242.	4.4	28
49	Global transcriptome analysis of hexavalent chromium stress responses in <i>Staphylococcus aureus</i> LZ-01. <i>Ecotoxicology</i> , 2014, 23, 1534-1545.	2.4	27
50	Pretreatment of swine manure containing $\beta$ -lactam antibiotics with whole-cell biocatalyst to improve biogas production. <i>Journal of Cleaner Production</i> , 2019, 240, 118070.	9.3	27
51	Hg <sup>2+</sup> -binding peptide decreases mercury ion accumulation in fish through a cell surface display system. <i>Science of the Total Environment</i> , 2019, 659, 540-547.	8.0	27
52	Microalgal growth coupled with wastewater treatment in open and closed systems for advanced biofuel generation. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 1939-1958.	4.6	26
53	A Novel Herbal Hydrogel Formulation of <i>Moringa oleifera</i> for Wound Healing. <i>Plants</i> , 2021, 10, 25.	3.5	26
54	Chromate Reductase YieF from <i>Escherichia coli</i> Enhances Hexavalent Chromium Resistance of Human HepG2 Cells. <i>International Journal of Molecular Sciences</i> , 2015, 16, 11892-11902.	4.1	25

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55	Reducing methylmercury accumulation in fish using <i>Escherichia coli</i> with surface-displayed methylmercury-binding peptides. <i>Journal of Hazardous Materials</i> , 2019, 367, 35-42.	12.4	25
56	Fate of antibiotic resistance genes during temperature-changed psychrophilic anaerobic digestion of municipal sludge. <i>Water Research</i> , 2021, 194, 116926.	11.3	25
57	Two-stage microbial fuel cell (MFC) and membrane bioreactor (MBR) system for enhancing wastewater treatment and resource recovery based on MFC as a biosensor. <i>Environmental Research</i> , 2022, 204, 112089.	7.5	25
58	The environmental endocrine disruptor p-nitrophenol interacts with FKBP51, a positive regulator of androgen receptor and inhibits androgen receptor signaling in human cells. <i>Journal of Hazardous Materials</i> , 2016, 307, 193-201.	12.4	24
59	Reducing residual antibiotic levels in animal feces using intestinal <i>Escherichia coli</i> with surface-displayed erythromycin esterase. <i>Journal of Hazardous Materials</i> , 2020, 388, 122032.	12.4	24
60	Bioaugmentation of triclocarban and its dechlorinated congeners contaminated soil with functional degraders and the bacterial community response. <i>Environmental Research</i> , 2020, 180, 108840.	7.5	23
61	Enhanced removal of trivalent chromium from leather wastewater using engineered bacteria immobilized on magnetic pellets. <i>Science of the Total Environment</i> , 2021, 775, 145647.	8.0	23
62	Enhanced performance of sediment microbial fuel cell by immobilization of <i>Shewanella oneidensis</i> MR-1 on an anode surface. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 10091-10101.	7.1	22
63	Potential applications of algae in biochemical and bioenergy sector. <i>3 Biotech</i> , 2021, 11, 296.	2.2	22
64	Evaluation of animal- and plant-based lipidic waste in anaerobic digestion: kinetics of long-chain fatty acids degradation. <i>Critical Reviews in Biotechnology</i> , 2020, 40, 733-749.	9.0	22
65	Microbial $\beta$ -oxidation of synthetic long-chain fatty acids to improve lipid biomethanation. <i>Water Research</i> , 2022, 213, 118164.	11.3	22
66	The Application and Potential Artifacts of Zeeman Cold Vapor Atomic Absorption Spectrometry in Mercury Stable Isotope Analysis. <i>Environmental Science and Technology Letters</i> , 2019, 6, 165-170.	8.7	21
67	Exploring novel Cr(VI) remediation genes for Cr(VI)-contaminated industrial wastewater treatment by comparative metatranscriptomics and metagenomics. <i>Science of the Total Environment</i> , 2020, 742, 140435.	8.0	21
68	SARS-CoV-2 triggered oxidative stress and abnormal energy metabolism in gut microbiota. <i>MedComm</i> , 2022, 3, e112.	7.2	21
69	Alcohol ethoxylate degradation of activated sludge is enhanced by bioaugmentation with <i>Pseudomonas</i> sp. LZ-B. <i>Ecotoxicology and Environmental Safety</i> , 2019, 169, 335-343.	6.0	20
70	Thioredoxin is involved in hexavalent chromium reduction in <i>Streptomyces violaceoruber</i> strain LZ-26-1 isolated from the Lanzhou reaches of the Yellow River. <i>International Biodeterioration and Biodegradation</i> , 2014, 94, 146-151.	3.9	19
71	Copper (II) binding of NAD(P)H- flavin oxidoreductase (NfoR) enhances its Cr (VI)-reducing ability. <i>Scientific Reports</i> , 2017, 7, 15481.	3.3	17
72	Biomethanation and microbial community response during agricultural biomass and shrimp chaff digestion. <i>Environmental Pollution</i> , 2021, 278, 116801.	7.5	17

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73	High altitude Relieves transmission risks of COVID-19 through meteorological and environmental factors: Evidence from China. <i>Environmental Research</i> , 2022, 212, 113214.	7.5	17
74	Microalgae-assisted microbial fuel cells for electricity generation coupled with wastewater treatment: Biotechnological perspective. <i>Journal of Water Process Engineering</i> , 2022, 49, 102966.	5.6	17
75	Improving methane production in cow dung and corn straw co-fermentation systems via enhanced degradation of cellulose by cabbage addition. <i>Scientific Reports</i> , 2016, 6, 33628.	3.3	16
76	A Review on Microbial Electrocatalysis Systems Coupled with Membrane Bioreactor to Improve Wastewater Treatment. <i>Microorganisms</i> , 2019, 7, 372.	3.6	16
77	Feed-additive of bioengineering strain with surface-displayed laccase degrades sulfadiazine in broiler manure and maintains intestinal flora structure. <i>Journal of Hazardous Materials</i> , 2021, 406, 124440.	12.4	16
78	A copper-specific microbial fuel cell biosensor based on riboflavin biosynthesis of engineered <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2021, 118, 210-222.	3.3	16
79	Dietary application of <i>Lactococcus lactis</i> alleviates toxicity and regulates gut microbiota in <i>Cyprinus carpio</i> on exposure to heavy metals mixture. <i>Fish and Shellfish Immunology</i> , 2022, 120, 190-201.	3.6	16
80	Hierarchically porous MOF-based microneedles for glucose-responsive infected diabetic wound treatment. <i>Materials Chemistry Frontiers</i> , 2022, 6, 680-688.	5.9	16
81	<i>Pseudomonas</i> sp. LZ-Q continuously degrades phenanthrene under hypersaline and hyperalkaline condition in a membrane bioreactor system. <i>Biophysics Reports</i> , 2015, 1, 156-167.	0.8	14
82	Anaerobic digestion of cabbage and cauliflower biowaste: Impact of iron oxide nanoparticles (IONPs) on biomethane and microbial communities alteration. <i>Bioresource Technology Reports</i> , 2020, 12, 100567.	2.7	14
83	Probiotic Therapy (BIO-THREE) Mitigates Intestinal Microbial Imbalance and Intestinal Damage Caused by Oxaliplatin. <i>Probiotics and Antimicrobial Proteins</i> , 2022, 14, 60-71.	3.9	14
84	A novel electrochemical biosensor for bisphenol A detection based on engineered <i>Escherichia coli</i> cells with a surface-display of tyrosinase. <i>Sensors and Actuators B: Chemical</i> , 2022, 353, 131063.	7.8	14
85	Modulated Gut Microbiota for Potential COVID-19 Prevention and Treatment. <i>Frontiers in Medicine</i> , 2022, 9, 811176.	2.6	14
86	Immobilizing chromate reductase NfoR on magnetic biochar reduced Cr(VI) in copper-containing wastewater. <i>Journal of Cleaner Production</i> , 2022, 361, 132118.	9.3	14
87	Multidrug resistance operon <i>emrAB</i> contributes for chromate and ampicillin co-resistance in a <i>Staphylococcus</i> strain isolated from refinery polluted river bank. <i>SpringerPlus</i> , 2016, 5, 1648.	1.2	13
88	Smart nanoprobe based on two-photon sensitized terbium-carbon dots for dual-mode fluorescence thermometer and antibacterial. <i>Chinese Chemical Letters</i> , 2020, 31, 1792-1796.	9.0	13
89	Genes required for alleviation of uranium toxicity in sulfate reducing bacterium <i>Desulfovibrio alaskensis</i> G20. <i>Ecotoxicology</i> , 2014, 23, 726-733.	2.4	12
90	Effects of heavy metals on bacterial community structures in two lead-zinc tailings situated in northwestern China. <i>Archives of Microbiology</i> , 2022, 204, 78.	2.2	12

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91	Enhanced Biogas Production by Ligninolytic Strain <i>Enterobacter hormaechei</i> KA3 for Anaerobic Digestion of Corn Straw. <i>Energies</i> , 2021, 14, 2990.	3.1	10
92	The Variations of Bacterial Community Structures in Tailing Soils Suffering from Heavy Metal Contaminations. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	2.4	10
93	Biomethane enhancement via plastic carriers in anaerobic co-digestion of agricultural wastes. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 2553-2565.	4.6	9
94	Gut <i>Escherichia coli</i> expressing Pb <sup>2+</sup> -adsorption protein reduces lead accumulation in grass carp, <i>Ctenopharyngodon idellus</i> . <i>Environmental Pollution</i> , 2021, 276, 116634.	7.5	9
95	Nanofibrils in 3D aligned channel arrays with synergistic effect of Ag/NPs for rapid and highly efficient electric field disinfection. <i>Chinese Chemical Letters</i> , 2021, 32, 3143-3148.	9.0	8
96	Exploring microbial communities, assessment methodologies and applications of animal's carcass decomposition: a review. <i>FEMS Microbiology Ecology</i> , 2021, 97, .	2.7	8
97	Bioaugmentation improves the anaerobic co-digestion of cadmium-containing plant residues and cow manure. <i>Environmental Pollution</i> , 2021, 289, 117885.	7.5	8
98	Production of functional double-stranded RNA using a prokaryotic expression system in <i>Escherichia coli</i> . <i>MicrobiologyOpen</i> , 2019, 8, e787.	3.0	6
99	The guanidine thiocyanate-high EDTA method for total microbial RNA extraction from severely heavy metal-contaminated soils. <i>Microbial Biotechnology</i> , 2021, 14, 465-478.	4.2	5
100	Cu(II) nonspecifically binding chromate reductase NfoR promotes Cr(VI) reduction. <i>Environmental Microbiology</i> , 2021, 23, 415-430.	3.8	5
101	Chitoooligosaccharides production from shrimp chaff in chitosanase cell surface display system. <i>Carbohydrate Polymers</i> , 2022, 277, 118894.	10.2	4
102	Feed-additive <i>Limosilactobacillus fermentum</i> GR-3 reduces arsenic accumulation in <i>Procambarus clarkii</i> . <i>Ecotoxicology and Environmental Safety</i> , 2022, 231, 113216.	6.0	4
103	Metatranscriptomic analysis reveals active microbes and genes responded to short-term Cr(VI) stress. <i>Ecotoxicology</i> , 2020, 30, 1527-1537.	2.4	3
104	Improvement of Enzymatic Stability and Catalytic Efficiency of Recombinant <i>Fusariumoxysporum</i> Trypsin with Different N-Terminal Residues Produced by <i>Pichiapastoris</i> . <i>Journal of Microbiology and Biotechnology</i> , 2018, 28, 1482-1492.	2.1	3
105	Improving selenium accumulation in broilers using <i>Escherichia coli</i> Nissle 1917 with surface-displayed selenite reductase SerV01. <i>Food and Function</i> , 2022, 13, 4537-4550.	4.6	3
106	Identification of Potential Targets for Thymidylate Synthase and Amp-C <sup>Î</sup> -lactamase from Non-alkaloidal Fractions of <i>Moringa oleifera</i> Leaves. <i>Current Pharmaceutical Biotechnology</i> , 2021, 22, 2085-2093.	1.6	2
107	Gut Remediation: Back to the Future. , 2020, , 199-217.		2
108	NahAa can convert naphthalene and reduce chromate simultaneously and immobilized on functional multiwall carbon nanotubes for wastewater treatment. <i>Chemosphere</i> , 2022, 291, 132934.	8.2	2

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109	Weak electrostimulation enhanced the microbial transformation of ibuprofen and naproxen. Science of the Total Environment, 2022, 835, 155522.	8.0	2
110	Wood carbon electrode in microbial fuel cell enhances chromium reduction and bioelectricity generation. Environmental Science and Pollution Research, 2022, 29, 13709-13719.	5.3	1
111	Effects of the Bio-accumulative Environmental Pollutants on the Gut Microbiota. , 2020, , 109-143.		1
112	Current Policies and Policy Implications for Environmental Pollution. , 2020, , 219-245.		0
113	Exosomes as Targeted Drug Delivery Vehicles: Perspectives and Challenges. Current Drug Metabolism, 2020, 21, 329-329.	1.2	0