Pu Liu

List of Publications by Year
in descending order

72 papers	3,048 citations	186265 28 h-index	168389 53 g-index
74 all docs	74 docs citations	74 times ranked	4153 citing authors

#	Article	IF	Citations
1	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
2	Two-stage microbial fuel cell (MFC) and membrane bioreactor (MBR) system for enhancing wastewater treatment and resource recovery based on MFC as a biosensor. Environmental Research, 2022, 204, 112089.	7.5	25
3	A novel electrochemical biosensor for bisphenol A detection based on engineered Escherichia coli cells with a surface-display of tyrosinase. Sensors and Actuators B: Chemical, 2022, 353, 131063.	7.8	14
4	NahAa can convert naphthalene and reduce chromate simultaneously and immobilized on functional multiwall carbon nanotubes for wastewater treatment. Chemosphere, 2022, 291, 132934.	8.2	2
5	Feed-additive Limosilactobacillus fermentum GR-3 reduces arsenic accumulation in Procambarus clarkii. Ecotoxicology and Environmental Safety, 2022, 231, 113216.	6.0	4
6	Improving selenium accumulation in broilers using Escherichia coli Nissle 1917 with surface-displayed selenite reductase SerV01. Food and Function, 2022, 13, 4537-4550.	4.6	3
7	Immobilizing chromate reductase NfoR on magnetic biochar reduced Cr(VI) in copper-containing wastewater. Journal of Cleaner Production, 2022, 361, 132118.	9.3	14
8	Enhanced methane production by using phytoremediated Halogeton glomeratus as substrate via anaerobic digestion. Renewable Energy, 2022, 194, 28-39.	8.9	0
9	Elevated Cr(VI) reduction in a biocathode microbial fuel cell without acclimatization inversion based on strain Corynebacterium vitaeruminis LZU47-1. International Journal of Hydrogen Energy, 2021, 46, 3193-3203.	7.1	33
10	Feed-additive of bioengineering strain with surface-displayed laccase degrades sulfadiazine in broiler manure and maintains intestinal flora structure. Journal of Hazardous Materials, 2021, 406, 124440.	12.4	16
11	Evaluation of electricity production from paper industry wastewater by Cellulomonas iranensis LZ-P1 isolated from giant panda. Journal of Cleaner Production, 2021, 278, 123576.	9.3	10
12	Cu(II) nonspecifically binding chromate reductase NfoR promotes Cr(VI) reduction. Environmental Microbiology, 2021, 23, 415-430.	3.8	5
13	Nanofibrils in 3D aligned channel arrays with synergistic effect of Ag/NPs for rapid and highly efficient electric field disinfection. Chinese Chemical Letters, 2021, 32, 3143-3148.	9.0	8
14	Gut Escherichia coli expressing Pb2+-adsorption protein reduces lead accumulation in grass carp, Ctenopharyngodon idellus. Environmental Pollution, 2021, 276, 116634.	7.5	9
15	Enhanced Biogas Production by Ligninolytic Strain Enterobacter hormaechei KA3 for Anaerobic Digestion of Corn Straw. Energies, 2021, 14, 2990.	3.1	10
16	Using Aspergillus niger whole-cell biocatalyst mycelial aerobic granular sludge to treat pharmaceutical wastewater containing Î²-lactam antibiotics. Chemical Engineering Journal, 2021, 412, 128665.	12.7	30
17	Enhanced removal of trivalent chromium from leather wastewater using engineered bacteria immobilized on magnetic pellets. Science of the Total Environment, 2021, 775, 145647.	8.0	23
18	Perfluorooctane sulfonate decreases the performance of a sequencing batch reactor system and changes the sludge microbial community. Chemosphere, 2021, 279, 130596.	8.2	21

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19	Bioaugmentation improves the anaerobic co-digestion of cadmium-containing plant residues and cow manure. Environmental Pollution, 2021, 289, 117885.	7.5	8
20	Limosilactobacillus fermentum JL-3 isolated from â€œJiangshuiâ€•ameliorates hyperuricemia by degrading uric acid. Gut Microbes, 2021, 13, 1-18.	9.8	68
21	Development of an innovative MFC-biosensor for real-time monitoring of anaerobic digestion for biogas production: Controlled substrate feeding strategy. Journal of Environmental Chemical Engineering, 2021, 9, 106703.	6.7	6
22	A novel biosensor for zinc detection based on microbial fuel cell system. Biosensors and Bioelectronics, 2020, 147, 111763.	10.1	38
23	Reducing residual antibiotic levels in animal feces using intestinal Escherichia coli with surface-displayed erythromycin esterase. Journal of Hazardous Materials, 2020, 388, 122032.	12.4	24
24	Tibet plateau probiotic mitigates chromate toxicity in mice by alleviating oxidative stress in gut microbiota. Communications Biology, 2020, 3, 242.	4.4	28
25	Anaerobic membrane bioreactors for treatment of emerging contaminants: A review. Journal of Environmental Management, 2020, 270, 110913.	7.8	61
26	Exploring novel Cr(VI) remediation genes for Cr(VI)-contaminated industrial wastewater treatment by comparative metatranscriptomics and metagenomics. Science of the Total Environment, 2020, 742, 140435.	8.0	21
27	Bioaugmentation of membrane bioreactor with Aeromonas hydrophila LZ-MG14 for enhanced malachite green and hexavalent chromium removal in textile wastewater. International Biodeterioration and Biodegradation, 2020, 150, 104939.	3.9	42
28	Using nano-attapulgite clay compounded hydrophilic urethane foams (AT/HUFs) as biofilm support enhances oil-refinery wastewater treatment in a biofilm membrane bioreactor. Science of the Total Environment, 2019, 646, 606-617.	8.0	29
29	Lactobacillus plantarum TW1-1 Alleviates Diethylhexylphthalate-Induced Testicular Damage in Mice by Modulating Gut Microbiota and Decreasing Inflammation. Frontiers in Cellular and Infection Microbiology, 2019, 9, 221.	3.9	68
30	A sustainable approach for efficient conversion of lignin into biodiesel accompanied by biological pretreatment of corn straw. Energy Conversion and Management, 2019, 199, 111928.	9.2	44
31	A Review on Microbial Electrocatalysis Systems Coupled with Membrane Bioreactor to Improve Wastewater Treatment. Microorganisms, 2019, 7, 372.	3.6	16
32	Micro-aeration in anode chamber promotes p-nitrophenol degradation and electricity generation in microbial fuel cell. Bioresource Technology, 2019, 285, 121291.	9.6	28
33	Heavy metals interact with the microbial community and affect biogas production in anaerobic digestion: A review. Journal of Environmental Management, 2019, 240, 266-272.	7.8	87
34	Enhanced performance of sediment microbial fuel cell by immobilization of Shewanella oneidensis MR-1 on an anode surface. International Journal of Hydrogen Energy, 2019, 44, 10091-10101.	7.1	22
35	A Review on Gut Remediation of Selected Environmental Contaminants: Possible Roles of Probiotics and Gut Microbiota. Nutrients, 2019, 11, 22.	4.1	76
36	Alcohol ethoxylate degradation of activated sludge is enhanced by bioaugmentation with Pseudomonas sp. LZ-B. Ecotoxicology and Environmental Safety, 2019, 169, 335-343.	6.0	20

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37	Hg2+-binding peptide decreases mercury ion accumulation in fish through a cell surface display system. Science of the Total Environment, 2019, 659, 540-547.	8.0	27
38	Reducing methylmercury accumulation in fish using Escherichia coli with surface-displayed methylmercury-binding peptides. Journal of Hazardous Materials, 2019, 367, 35-42.	12.4	25
39	Current Status and Development of Remediation for Heavy Metals in China. Applied Environmental Biotechnology, 2019, 4, 5-18.	2.4	2
40	A review on the applications of microbial electrolysis cells in anaerobic digestion. Bioresource Technology, 2018, 255, 340-348.	9.6	151
41	Klebsiella pneumoniae sp. LZU10 degrades oil in food waste and enhances methane production from co-digestion of food waste and straw. International Biodeterioration and Biodegradation, 2018, 126, 28-36.	3.9	18
42	A critical review on the interaction of substrate nutrient balance and microbial community structure and function in anaerobic co-digestion. Bioresource Technology, 2018, 247, 1119-1127.	9.6	201
43	Lignin depolymerization and utilization by bacteria. Bioresource Technology, 2018, 269, 557-566.	9.6	145
44	A Novel Early Warning System Based on a Sediment Microbial Fuel Cell for In Situ and Real Time Hexavalent Chromium Detection in Industrial Wastewater. Sensors, 2018, 18, 642.	3.8	39
45	Co-expression of YieF and PhoN in Deinococcus radiodurans R1 improves uranium bioprecipitation by reducing chromium interference. Chemosphere, 2018, 211, 1156-1165.	8.2	32
46	Improvement of Enzymatic Stability and Catalytic Efficiency of Recombinant Fusariumoxysporum Trypsin with Different N-Terminal Residues Produced by Pichiapastoris. Journal of Microbiology and Biotechnology, 2018, 28, 1482-1492.	2.1	3
47	Effects of human opiorphin on food intake and water intake in mice following central administration. Neuroscience Letters, 2017, 641, 62-69.	2.1	2
48	The naphthalene catabolic protein NahG plays a key role in hexavalent chromium reduction in Pseudomonas brassicacearum LZ-4. Scientific Reports, 2017, 7, 9670.	3.3	29
49	Copper (II) binding of NAD(P)H- flavin oxidoreductase (NfoR) enhances its Cr (VI)-reducing ability. Scientific Reports, 2017, 7, 15481.	3.3	17
50	Gut remediation: a potential approach to reducing chromium accumulation using Lactobacillus plantarum TW1-1. Scientific Reports, 2017, 7, 15000.	3.3	45
51	Microbial Fuels Cell-Based Biosensor for Toxicity Detection: A Review. Sensors, 2017, 17, 2230.	3.8	87
52	A novel biosensor for p-nitrophenol based on an aerobic anode microbial fuel cell. Biosensors and Bioelectronics, 2016, 85, 860-868.	10.1	73
53	Simultaneous aerobic denitrification and Cr(VI) reduction by Pseudomonas brassicacearum LZ-4 in wastewater. Bioresource Technology, 2016, 221, 121-129.	9.6	68
54	The shifts of sediment microbial community phylogenetic and functional structures during chromium (VI) reduction. Ecotoxicology, 2016, 25, 1759-1770.	2.4	48

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55	Improving methane production in cow dung and corn straw co-fermentation systems via enhanced degradation of cellulose by cabbage addition. Scientific Reports, 2016, 6, 33628.	3.3	16
56	Multidrug resistance operon emrAB contributes for chromate and ampicillin co-resistance in a Staphylococcus strain isolated from refinery polluted river bank. SpringerPlus, 2016, 5, 1648.	1.2	13
57	A novel Pseudomonas gessardii strain LZ-E simultaneously degrades naphthalene and reduces hexavalent chromium. Bioresource Technology, 2016, 207, 370-378.	9.6	102
58	Genome sequencing reveals mechanisms for heavy metal resistance and polycyclic aromatic hydrocarbon degradation in Delftia lacustris strain LZ-C. Ecotoxicology, 2016, 25, 234-247.	2.4	50
59	Pseudomonas sp. LZ-Q continuously degrades phenanthrene under hypersaline and hyperalkaline condition in a membrane bioreactor system. Biophysics Reports, 2015, 1, 156-167.	0.8	14
60	Chromate Reductase YieF from Escherichia coli Enhances Hexavalent Chromium Resistance of Human HepG2 Cells. International Journal of Molecular Sciences, 2015, 16, 11892-11902.	4.1	25
61	A Bacillus subtilis strain can reduce hexavalent chromium to trivalent and an nfrA gene is involved. International Biodeterioration and Biodegradation, 2015, 97, 90-96.	3.9	58
62	Prokaryotic Arsenate Reductase Enhances Arsenate Resistance in Mammalian Cells. Recent Patents on Food, Nutrition & Agriculture, 2015, 6, 73-81.	0.9	1
63	Global transcriptome analysis of hexavalent chromium stress responses in Staphylococcus aureus LZ-01. Ecotoxicology, 2014, 23, 1534-1545.	2.4	27
64	Desulfovibrio vulgaris Hildenborough prefers lactate over hydrogen as electron donor. Annals of Microbiology, 2014, 64, 451-457.	2.6	8
65	Genes required for alleviation of uranium toxicity in sulfate reducing bacterium Desulfovibio alaskensis G20. Ecotoxicology, 2014, 23, 726-733.	2.4	12
66	Thioredoxin is involved in hexavalent chromium reduction in Streptomyces violaceoruber strain LZ-26-1 isolated from the Lanzhou reaches of the Yellow River. International Biodeterioration and Biodegradation, 2014, 94, 146-151.	3.9	19
67	Enterococcus faecalis strain LZ-11 isolated from Lanzhou reach of the Yellow River is able to resist and absorb Cadmium. Journal of Applied Microbiology, 2014, 116, 1172-1180.	3.1	20
68	A mer operon confers mercury reduction in a Staphylococcus epidermidis strain isolated from Lanzhou reach of the Yellow River. International Biodeterioration and Biodegradation, 2014, 90, 57-63.	3.9	32
69	Loss of transforming growth factor Î² adaptor protein Î²-2 spectrin leads to delayed liver regeneration in mice. Hepatology, 2011, 53, 1641-1650.	7.3	36
70	Efficient In Vivo Doxycycline and Cre Recombinaseâ€“Mediated Inducible Transgene Activation in the Murine Trabecular Meshwork. , 2011, 52, 969.		3
71	Lmx1b is required for murine trabecular meshwork formation and for maintenance of corneal transparency. Developmental Dynamics, 2010, 239, 2161-2171.	1.8	48
72	Hippo signaling is a potent in vivo growth and tumor suppressor pathway in the mammalian liver. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1437-1442.	7.1	637