

# Pu Liu

## List of Publications by Year in descending order

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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	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
2	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
3	A review on the applications of microbial electrolysis cells in anaerobic digestion. Bioresource Technology, 2018, 255, 340-348.	9.6	151
4	Lignin depolymerization and utilization by bacteria. Bioresource Technology, 2018, 269, 557-566.	9.6	145
5	A novel Pseudomonas gessardii strain LZ-E simultaneously degrades naphthalene and reduces hexavalent chromium. Bioresource Technology, 2016, 207, 370-378.	9.6	102
6	Microbial Fuels Cell-Based Biosensor for Toxicity Detection: A Review. Sensors, 2017, 17, 2230.	3.8	87
7	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
8	A Review on Gut Remediation of Selected Environmental Contaminants: Possible Roles of Probiotics and Gut Microbiota. Nutrients, 2019, 11, 22.	4.1	76
9	A novel biosensor for p-nitrophenol based on an aerobic anode microbial fuel cell. Biosensors and Bioelectronics, 2016, 85, 860-868.	10.1	73
10	Simultaneous aerobic denitrification and Cr(VI) reduction by Pseudomonas brassicacearum LZ-4 in wastewater. Bioresource Technology, 2016, 221, 121-129.	9.6	68
11	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
12	<i>Limosilactobacillus fermentum</i> JL-3 isolated from Jiangshui ameliorates hyperuricemia by degrading uric acid. Gut Microbes, 2021, 13, 1-18.	9.8	68
13	Anaerobic membrane bioreactors for treatment of emerging contaminants: A review. Journal of Environmental Management, 2020, 270, 110913.	7.8	61
14	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
15	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
16	Lmx1b is required for murine trabecular meshwork formation and for maintenance of corneal transparency. Developmental Dynamics, 2010, 239, 2161-2171.	1.8	48
17	The shifts of sediment microbial community phylogenetic and functional structures during chromium (VI) reduction. Ecotoxicology, 2016, 25, 1759-1770.	2.4	48
18	Gut remediation: a potential approach to reducing chromium accumulation using Lactobacillus plantarum TW1-1. Scientific Reports, 2017, 7, 15000.	3.3	45

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19	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
20	Bioaugmentation of membrane bioreactor with <i>Aeromonas hydrophila</i> LZ-MG14 for enhanced malachite green and hexavalent chromium removal in textile wastewater. <i>International Biodeterioration and Biodegradation</i> , 2020, 150, 104939.	3.9	42
21	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
22	A novel biosensor for zinc detection based on microbial fuel cell system. <i>Biosensors and Bioelectronics</i> , 2020, 147, 111763.	10.1	38
23	Loss of transforming growth factor $\beta$ 2 adaptor protein $\beta$ 2 spectrin leads to delayed liver regeneration in mice. <i>Hepatology</i> , 2011, 53, 1641-1650.	7.3	36
24	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
25	A mer operon confers mercury reduction in a <i>Staphylococcus epidermidis</i> strain isolated from Lanzhou reach of the Yellow River. <i>International Biodeterioration and Biodegradation</i> , 2014, 90, 57-63.	3.9	32
26	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
27	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
28	The naphthalene catabolic protein NahG plays a key role in hexavalent chromium reduction in <i>Pseudomonas brassicacearum</i> LZ-4. <i>Scientific Reports</i> , 2017, 7, 9670.	3.3	29
29	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
30	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
31	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
32	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
33	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
34	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
35	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
36	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

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37	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
38	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
39	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
40	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
41	Perfluorooctane sulfonate decreases the performance of a sequencing batch reactor system and changes the sludge microbial community. <i>Chemosphere</i> , 2021, 279, 130596.	8.2	21
42	<i>Enterococcus faecalis</i> strain LZ-11 isolated from Lanzhou reach of the Yellow River is able to resist and absorb Cadmium. <i>Journal of Applied Microbiology</i> , 2014, 116, 1172-1180.	3.1	20
43	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
44	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
45	<i>Klebsiella pneumoniae</i> sp. LZU10 degrades oil in food waste and enhances methane production from co-digestion of food waste and straw. <i>International Biodeterioration and Biodegradation</i> , 2018, 126, 28-36.	3.9	18
46	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
47	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
48	A Review on Microbial Electrocatalysis Systems Coupled with Membrane Bioreactor to Improve Wastewater Treatment. <i>Microorganisms</i> , 2019, 7, 372.	3.6	16
49	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
50	<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
51	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
52	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
53	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
54	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

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55	Evaluation of electricity production from paper industry wastewater by <i>Cellulomonas iranensis</i> LZ-P1 isolated from giant panda. <i>Journal of Cleaner Production</i> , 2021, 278, 123576.	9.3	10
56	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
57	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
58	<i>Desulfovibrio vulgaris</i> Hildenborough prefers lactate over hydrogen as electron donor. <i>Annals of Microbiology</i> , 2014, 64, 451-457.	2.6	8
59	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
60	Bioaugmentation improves the anaerobic co-digestion of cadmium-containing plant residues and cow manure. <i>Environmental Pollution</i> , 2021, 289, 117885.	7.5	8
61	Development of an innovative MFC-biosensor for real-time monitoring of anaerobic digestion for biogas production: Controlled substrate feeding strategy. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106703.	6.7	6
62	Cu(II) nonspecifically binding chromate reductase NfoR promotes Cr(VI) reduction. <i>Environmental Microbiology</i> , 2021, 23, 415-430.	3.8	5
63	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
64	Efficient In Vivo Doxycycline and Cre Recombinase-Mediated Inducible Transgene Activation in the Murine Trabecular Meshwork. , 2011, 52, 969.		3
65	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
66	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
67	Effects of human opiorphin on food intake and water intake in mice following central administration. <i>Neuroscience Letters</i> , 2017, 641, 62-69.	2.1	2
68	Current Status and Development of Remediation for Heavy Metals in China. <i>Applied Environmental Biotechnology</i> , 2019, 4, 5-18.	2.4	2
69	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
70	Wood carbon electrode in microbial fuel cell enhances chromium reduction and bioelectricity generation. <i>Environmental Science and Pollution Research</i> , 2022, 29, 13709-13719.	5.3	1
71	Prokaryotic Arsenate Reductase Enhances Arsenate Resistance in Mammalian Cells. <i>Recent Patents on Food, Nutrition &amp; Agriculture</i> , 2015, 6, 73-81.	0.9	1
72	Enhanced methane production by using phyto-mediated <i>Halogeton glomeratus</i> as substrate via anaerobic digestion. <i>Renewable Energy</i> , 2022, 194, 28-39.	8.9	0