

Zhenmei Lu

List of Publications by Year in descending order

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53
papers

1,654
citations

394421

19
h-index

302126

39
g-index

58
all docs

58
docs citations

58
times ranked

2034
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel pathway and acetate-facilitated complete atenolol degradation by <i>Hydrogenophaga</i> sp. YM1 isolated from activated sludge. <i>Science of the Total Environment</i> , 2022, 810, 152218.	8.0	15
2	A Multicomponent THF Hydroxylase Initiates Tetrahydrofuran Degradation in <i>Cupriavidus metallidurans</i> ZM02. <i>Applied and Environmental Microbiology</i> , 2022, 88, AEM0188021.	3.1	1
3	Network and meta-omics reveal the cooperation patterns and mechanisms in an efficient 1,4-dioxane-degrading microbial consortium. <i>Chemosphere</i> , 2022, 301, 134723.	8.2	9
4	Microbial interactions enhanced environmental fitness and expanded ecological niches under dibutyl phthalate and cadmium co-contamination. <i>Environmental Pollution</i> , 2022, 306, 119362.	7.5	11
5	Network-directed isolation of the cooperator <i>Pseudomonas aeruginosa</i> ZM03 enhanced the dibutyl phthalate degradation capacity of <i>Arthrobacter nicotianae</i> ZM05 under pH stress. <i>Journal of Hazardous Materials</i> , 2021, 410, 124667.	12.4	19
6	Identification and characterization of Nornicotine degrading strain <i>Arthrobacter</i> sp. NOR5. <i>Science of the Total Environment</i> , 2021, 764, 142894.	8.0	5
7	Efficient electrotransformation of <i>Rhodococcus ruber</i> YYL with abundant extracellular polymeric substances via a cell wall-weakening strategy. <i>FEMS Microbiology Letters</i> , 2021, 368, .	1.8	1
8	<i>Acinetobacter tandoii</i> ZM06 Assists <i>Glutamicibacter nicotianae</i> ZM05 in Resisting Cadmium Pressure to Preserve Dipropyl Phthalate Biodegradation. <i>Microorganisms</i> , 2021, 9, 1417.	3.6	12
9	Impact of exogenous nitrogen on the cyanobacterial abundance and community in oil-contaminated sediment: A microcosm study. <i>Science of the Total Environment</i> , 2020, 710, 136296.	8.0	4
10	Microplastics in the soil environment: Occurrence, risks, interactions and fate – A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 2175-2222.	12.8	324
11	Biodegradation of Tetrahydrofuran by the Newly Isolated Filamentous Fungus <i>Pseudallescheria boydii</i> ZM01. <i>Microorganisms</i> , 2020, 8, 1190.	3.6	9
12	3-Hydroxypyridine Dehydrogenase HpdA Is Encoded by a Novel Four-Component Gene Cluster and Catalyzes the First Step of 3-Hydroxypyridine Catabolism in <i>Ensifer adhaerens</i> HP1. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	5
13	Thiamine-Mediated Cooperation Between Auxotrophic <i>Rhodococcus ruber</i> ZM07 and <i>Escherichia coli</i> K12 Drives Efficient Tetrahydrofuran Degradation. <i>Frontiers in Microbiology</i> , 2020, 11, 594052.	3.5	4
14	Bacterial catabolism of nicotine: Catabolic strains, pathways and modules. <i>Environmental Research</i> , 2020, 183, 109258.	7.5	24
15	Metabolite Cross-Feeding between <i>Rhodococcus ruber</i> YYL and <i>Bacillus cereus</i> MLY1 in the Biodegradation of Tetrahydrofuran under pH Stress. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	16
16	Complex Oxidation of Apocytochromes <i>c</i> during Bacterial Cytochrome <i>c</i> Maturation. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	16
17	Enrichment and characterization of a highly efficient tetrahydrofuran-degrading bacterial culture. <i>Biodegradation</i> , 2019, 30, 467-479.	3.0	13
18	Novel 3,6-Dihydroxypicolinic Acid Decarboxylase-Mediated Picolinic Acid Catabolism in <i>Alcaligenes faecalis</i> JQ135. <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	8

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19	Novel tetrahydrofuran (THF) degradation-associated genes and cooperation patterns of a THF-degrading microbial community as revealed by metagenomic. <i>Chemosphere</i> , 2019, 231, 173-183.	8.2	10
20	Identification and Characterization of a Novel <i>pic</i> Gene Cluster Responsible for Picolinic Acid Degradation in <i>Alcaligenes faecalis</i> JQ135. <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	18
21	Bacterial degradation of anthraquinone dyes. <i>Journal of Zhejiang University: Science B</i> , 2019, 20, 528-540.	2.8	83
22	<i>ndpT</i> encodes a new protein involved in nicotine catabolism by <i>Sphingomonas melonis</i> TY. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 10171-10181.	3.6	8
23	Cyanobacterial blooms in oil-contaminated subtidal sediments revealed by integrated approaches. <i>Environmental Microbiology Reports</i> , 2018, 10, 444-452.	2.4	5
24	Characterization of a Novel Nicotine Degradation Gene Cluster <i>ndp</i> in <i>Sphingomonas melonis</i> TY and Its Evolutionary Analysis. <i>Frontiers in Microbiology</i> , 2017, 8, 337.	3.5	16
25	pH Stress-Induced Cooperation between <i>Rhodococcus ruber</i> YYL and <i>Bacillus cereus</i> MLY1 in Biodegradation of Tetrahydrofuran. <i>Frontiers in Microbiology</i> , 2017, 8, 2297.	3.5	25
26	The Complete Genome Sequence of the Nicotine-Degrading Bacterium <i>Shinella</i> sp. HZN7. <i>Frontiers in Microbiology</i> , 2016, 7, 1348.	3.5	24
27	Conversion of nornicotine to 6-hydroxy-nornicotine and 6-hydroxy-myosmine by <i>Shinella</i> sp. strain HZN7. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 10019-10029.	3.6	14
28	Impact of 4-epi-oxytetracycline on the gut microbiota and blood metabolomics of Wistar rats. <i>Scientific Reports</i> , 2016, 6, 23141.	3.3	12
29	Short-term toxicity assessments of an antibiotic metabolite in Wistar rats and its metabonomics analysis by ultra-high performance liquid chromatography coupled to quadrupole time-of-flight mass spectrometry. <i>Toxicology and Applied Pharmacology</i> , 2016, 293, 1-9.	2.8	23
30	Two Novel Sets of Genes Essential for Nicotine Degradation by <i>Sphingomonas melonis</i> TY. <i>Frontiers in Microbiology</i> , 2016, 7, 2060.	3.5	12
31	Trehalose promotes <i>Rhodococcus</i> sp. strain YYL colonization in activated sludge under tetrahydrofuran (THF) stress. <i>Frontiers in Microbiology</i> , 2015, 6, 438.	3.5	7
32	Individual or synchronous biodegradation of di-n-butyl phthalate and phenol by <i>Rhodococcus ruber</i> strain DP-2. <i>Journal of Hazardous Materials</i> , 2014, 273, 104-109.	12.4	36
33	Bioremediation of the tobacco waste-contaminated soil by <i>Pseudomonas</i> sp. HF-1: nicotine degradation and microbial community analysis. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 6077-6088.	3.6	14
34	Successful bioaugmentation of an activated sludge reactor with <i>Rhodococcus</i> sp. YYL for efficient tetrahydrofuran degradation. <i>Journal of Hazardous Materials</i> , 2013, 261, 550-558.	12.4	22
35	Biodegradation of di-n-butyl phthalate by a stable bacterial consortium, HD-1, enriched from activated sludge. <i>Bioresource Technology</i> , 2013, 128, 526-532.	9.6	75
36	Correction to GeoChip-Based Analysis of Microbial Functional Gene Diversity in a Landfill Leachate-Contaminated Aquifer. <i>Environmental Science & Technology</i> , 2013, 47, 2142-2142.	10.0	1

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37	GeoChip-Based Analysis of Microbial Functional Gene Diversity in a Landfill Leachate-Contaminated Aquifer. <i>Environmental Science & Technology</i> , 2012, 46, 5824-5833.	10.0	64
38	Microbial gene functions enriched in the Deepwater Horizon deep-sea oil plume. <i>ISME Journal</i> , 2012, 6, 451-460.	9.8	240
39	Unraveling the concentration-dependent metabolic response of <i>Pseudomonas</i> sp. HF-1 to nicotine stress by ¹ H NMR-based metabolomics. <i>Ecotoxicology</i> , 2012, 21, 1314-1324.	2.4	22
40	The effect of tetrahydrofuran on the enzymatic activity and microbial community in activated sludge from a sequencing batch reactor. <i>Ecotoxicology</i> , 2012, 21, 56-65.	2.4	15
41	Nicotine degradation by two novel bacterial isolates of <i>Acinetobacter</i> sp. TW and <i>Sphingomonas</i> sp. TY and their responses in the presence of neonicotinoid insecticides. <i>World Journal of Microbiology and Biotechnology</i> , 2011, 27, 1633-1640.	3.6	47
42	Reduction of oxidative stress by bioaugmented strain <i>Pseudomonas</i> sp. HF-1 and selection of potential biomarkers in sequencing batch reactor treating tobacco wastewater. <i>Ecotoxicology</i> , 2010, 19, 1117-1123.	2.4	13
43	Isolation and characterization of a new strain of <i>Methanothermobacter marburgensis</i> DX01 from hot springs in China. <i>Anaerobe</i> , 2010, 16, 54-59.	2.1	10
44	Assessment of toxicity of tetrahydrofuran on the microbial community in activated sludge. <i>Bioresource Technology</i> , 2010, 101, 5213-5221.	9.6	52
45	Antioxidant Enzyme Activity in Bacterial Resistance to Nicotine Toxicity by Reactive Oxygen Species. <i>Archives of Environmental Contamination and Toxicology</i> , 2009, 57, 456-462.	4.1	10
46	Studies on biosorption equilibrium and kinetics of Cd ²⁺ by <i>Streptomyces</i> sp. K33 and HL-12. <i>Journal of Hazardous Materials</i> , 2009, 164, 423-431.	12.4	41
47	Isolation, identification and characterization of a novel <i>Rhodococcus</i> sp. strain in biodegradation of tetrahydrofuran and its medium optimization using sequential statistics-based experimental designs. <i>Bioresource Technology</i> , 2009, 100, 2762-2769.	9.6	60
48	Catalase and superoxide dismutase activities in a <i>Stenotrophomonas maltophilia</i> WZ2 resistant to herbicide pollution. <i>Ecotoxicology and Environmental Safety</i> , 2009, 72, 136-143.	6.0	44
49	Bioaugmentation with the nicotine-degrading bacterium <i>Pseudomonas</i> sp. HF-1 in a sequencing batch reactor treating tobacco wastewater: Degradation study and analysis of its mechanisms. <i>Water Research</i> , 2009, 43, 4187-4196.	11.3	74
50	Variations of Bacterial Community Structure in Flooded Paddy Soil Contaminated with Herbicide Quinclorac. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2006, 41, 821-832.	1.5	14
51	The Response of <i>Escherichia coli</i> , <i>Bacillus subtilis</i> , and <i>Burkholderia cepacia</i> WZ1 to Oxidative Stress of Exposure to Quinclorac. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2004, 39, 431-441.	1.5	17
52	Phylogenetic and Degradation Characterization of <i>Burkholderia cepacia</i> WZ1 Degrading Herbicide Quinclorac. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2003, 38, 771-782.	1.5	21
53	Influences of quinclorac on culturable microorganisms and soil respiration in flooded paddy soil. <i>Biomedical and Environmental Sciences</i> , 2003, 16, 314-22.	0.2	4