Mei-fang Chien

List of Publications by Year
in descending order

37 papers	887 citations	430442 18 h-index	476904 29 g-index
39 all docs	39 docs citations	39 times ranked	917 citing authors

#	Article	IF	Citations
1	Changes during the weathering of polyolefins. Polymer Degradation and Stability, 2020, 181, 109364.	2.7	82
2	Expressing a bacterial mercuric ion binding protein in plant for phytoremediation of heavy metals. Journal of Hazardous Materials, 2009, 161, 920-925.	6.5	78
3	Selection and application of endophytic bacterium Achromobacter xylosoxidans strain F3B for improving phytoremediation of phenolic pollutants. Journal of Hazardous Materials, 2012, 219-220, 43-49.	6.5	78
4	Biodegradation of crude oil and phenanthrene by heavy metal resistant Bacillus subtilis isolated from a multi-polluted industrial wastewater creek. International Biodeterioration and Biodegradation, 2017, 120, 143-151.	1.9	49
5	Biotechnological remedies for the estuarine environment polluted with heavy metals and persistent organic pollutants. International Biodeterioration and Biodegradation, 2017, 119, 614-625.	1.9	49
6	Long-term effectiveness of microbe-assisted arsenic phytoremediation by Pteris vittata in field trials. Science of the Total Environment, 2020, 740, 140137.	3.9	45
7	Organomercurials removal by heterogeneous merB genes harboring bacterial strains. Journal of Bioscience and Bioengineering, 2010, 110, 94-98.	1.1	44
8	Efficient nitrate removal from water using selected cathodes and Ti/PbO2 anode: Experimental study and mechanism verification. Separation and Purification Technology, 2019, 216, 158-165.	3.9	43
9	Separation of microplastic from soil by centrifugation and its application to agricultural soil. Chemosphere, 2022, 288, 132654.	4.2	42
10	Enhanced degradation of polycyclic aromatic hydrocarbons (PAHs) in the rhizosphere of sudangrass (SorghumÂÃ— drummondii). Chemosphere, 2019, 234, 789-795.	4.2	34
11	Cupriavidus basilensis strain r507, a toxic arsenic phytoextraction facilitator, potentiates the arsenic accumulation by Pteris vittata. Ecotoxicology and Environmental Safety, 2020, 190, 110075.	2.9	33
12	Mercury resistance transposons in Bacilli strains from different geographical regions. FEMS Microbiology Letters, 2016, 363, fnw013.	0.7	29
13	Hydroponic approach to assess rhizodegradation by sudangrass (Sorghum x drummondii) reveals pH- and plant age-dependent variability in bacterial degradation of polycyclic aromatic hydrocarbons (PAHs). Journal of Hazardous Materials, 2020, 387, 121695.	6.5	28
14	Mercury resistance and accumulation in Escherichia coli with cell surface expression of fish metallothionein. Applied Microbiology and Biotechnology, 2010, 87, 561-569.	1.7	26
15	Mercury removal and recovery by immobilized Bacillus megaterium MB1. Frontiers of Chemical Science and Engineering, 2012, 6, 192-197.	2.3	25
16	Rhizospheric plant-microbe synergistic interactions achieve efficient arsenic phytoextraction by Pteris vittata. Journal of Hazardous Materials, 2022, 434, 128870.	6.5	24
17	A multifunctional rhizobacterial strain with wide application in different ferns facilitates arsenic phytoremediation. Science of the Total Environment, 2020, 712, 134504.	3.9	20
18	Enrichment and Analysis of Stable 1,4-dioxane-Degrading Microbial Consortia Consisting of Novel Dioxane-Degraders. Microorganisms, 2020, 8, 50.	1.6	20

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19	Comparative geochemical evaluation of toxic metals pollution and bacterial communities of industrial effluent tributary and a receiving estuary in Nigeria. Chemosphere, 2019, 227, 638-646.	4.2	15
20	New evidence of arsenic translocation and accumulation in Pteris vittata from real-time imaging using positron-emitting 74As tracer. Scientific Reports, 2021, 11, 12149.	1.6	15
21	Isolation and Characterization of Novel Bacteria Capable of Degrading 1,4-Dioxane in the Presence of Diverse Co-Occurring Compounds. Microorganisms, 2021, 9, 887.	1.6	14
22	Potential of Biosurfactantsâ€™ Production on Degrading Heavy Oil by Bacterial Consortia Obtained from Tsunami-Induced Oil-Spilled Beach Areas in Miyagi, Japan. Journal of Marine Science and Engineering, 2020, 8, 577.	1.2	12
23	Arsenic, lead and cadmium removal potential of Pteris multifida from contaminated water and soil. International Journal of Phytoremediation, 2018, 20, 1187-1193.	1.7	11
24	Analysis of stable 1,2-dichlorobenzene-degrading enrichments and two newly isolated degrading strains, Acidovorax sp. sk40 and Ralstonia sp. sk41. Applied Microbiology and Biotechnology, 2017, 101, 6821-6828.	1.7	10
25	Arsenic uptake by Pteris vittata in a subarctic arsenic-contaminated agricultural field in Japan: An 8-year study. Science of the Total Environment, 2022, 831, 154830.	3.9	10
26	Biomimetic antibiofouling oil infused honeycomb films fabricated using breath figures. Polymer Journal, 2021, 53, 713-717.	1.3	8
27	Expression of PvPht1;3, PvACR2 and PvACR3 during arsenic processing in root of Pteris vittata. Environmental and Experimental Botany, 2021, 182, 104312.	2.0	7
28	HMA4 and IRT3 as indicators accounting for different responses to Cd and Zn by hyperaccumulator Arabidopsis halleri ssp. gemmifera. Plant Stress, 2021, 2, 100042.	2.7	6
29	Second-generation bioethanol production from phytomass after phytoremediation using recombinant bacteria-yeast co-culture. Fuel, 2022, 326, 124975.	3.4	6
30	Facilities for transcription and mobilization of an exon-less bacterial group II intron nested in transposon TnMERI1. Gene, 2008, 408, 164-171.	1.0	4
31	Molybdate recovery using immobilized bioengineered Saccharomyces cerevisiae. Hydrometallurgy, 2020, 198, 105491.	1.8	4
32	Influence of low temperature on comparative arsenic accumulation and release by three <i>Pteris</i> hyperaccumulators. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2021, 56, 1179-1188.	0.9	4
33	Identification of A Novel Arsenic Resistance Transposon Nested in A Mercury Resistance Transposon of Bacillus sp. MB24. Microorganisms, 2019, 7, 566.	1.6	3
34	Empirical Evidence of Arsenite Oxidase Gene as an Indicator Accounting for Arsenic Phytoextraction by Pteris vittata. International Journal of Environmental Research and Public Health, 2022, 19, 1796.	1.2	3
35	Splicing of a Bacterial Group II Intron from Bacillus megaterium Is Independent of Intron-Encoded Protein. Microbes and Environments, 2009, 24, 28-32.	0.7	2
36	Construction of a Cell Surface Engineered Yeast Aims to Selectively Recover Molybdenum, a Rare Metal. Solid State Phenomena, 0, 262, 421-424.	0.3	2

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37	Phosphorus- and Iron-Deficiency Stresses Affect Arsenic Accumulation and Root Exudates in Pteris vittata. International Journal of Environmental Science and Development, 2019, 10, 430-434.	0.2	2