Lei Xiang

List of Publications by Year
in descending order

78 papers	3,553 citations	136950 32 h-index	144013 57 g-index
78 all docs	78 docs citations	78 times ranked	3129 citing authors

#	Article	IF	Citations
1	Diversity of endophytic bacteria in wild rice (Oryza meridionalis) and potential for promoting plant growth and degrading phthalates. Science of the Total Environment, 2022, 806, 150310.	8.0	13
2	Investigating the electron shuttling characteristics of resazurin in enhancing bio-electricity generation in microbial fuel cell. Chemical Engineering Journal, 2022, 428, 130924.	12.7	6
3	Uptake pathways of phthalates (PAEs) into Chinese flowering cabbage grown in plastic greenhouses and lowering PAE accumulation by spraying PAE-degrading bacterial strain. Science of the Total Environment, 2022, 815, 152854.	8.0	13
4	The recent progress of CRISPR/Cas genome editing technology and its application in crop improvement. Chinese Science Bulletin, 2022, 67, 1923-1937.	0.7	1
5	Sorption of microcystin-RR onto surface soils: Characteristics and influencing factors. Journal of Hazardous Materials, 2022, 431, 128571.	12.4	5
6	Adsorption of microcystin contaminants by biochars derived from contrasting pyrolytic conditions: Characteristics, affecting factors, and mechanisms. Science of the Total Environment, 2021, 763, 143028.	8.0	20
7	Nitrate supply decreases uptake and accumulation of ciprofloxacin in Brassica parachinensis. Journal of Hazardous Materials, 2021, 403, 123803.	12.4	6
8	Extract of Unifloral Camellia sinensis L. Pollen Collected by Apis mellifera L. Honeybees Exerted Inhibitory Effects on Glucose Uptake and Transport by Interacting with Glucose Transporters in Human Intestinal Cells. Journal of Agricultural and Food Chemistry, 2021, 69, 1877-1887.	5.2	6
9	Mechanistic insight into esterase-catalyzed hydrolysis of phthalate esters (PAEs) based on integrated multi-spectroscopic analyses and docking simulation. Journal of Hazardous Materials, 2021, 408, 124901.	12.4	12
10	Occurrence and dissipation mechanism of organic pollutants during the composting of sewage sludge: A critical review. Bioresource Technology, 2021, 328, 124847.	9.6	61
11	Role and possible mechanisms of earthworm Eisenia fetida in the elimination of microcystin-LR in soil. Geoderma, 2021, 392, 114980.	5.1	5
12	Variety-Selective Rhizospheric Activation, Uptake, and Subcellular Distribution of Perfluorooctanesulfonate (PFOS) in Lettuce (Lactuca sativa L.). Environmental Science & Technology, 2021, 55, 8730-8741.	10.0	33
13	Persistent contamination of polycyclic aromatic hydrocarbons (PAHs) and phthalates linked to the shift of microbial function in urban river sediments. Journal of Hazardous Materials, 2021, 414, 125416.	12.4	26
14	Cell wall modification induced by an arbuscular mycorrhizal fungus enhanced cadmium fixation in rice root. Journal of Hazardous Materials, 2021, 416, 125894.	12.4	56
15	Variant-Specific Adsorption, Desorption, and Dissipation of Microcystin Toxins in Surface Soil. Journal of Agricultural and Food Chemistry, 2021, 69, 11825-11834.	5.2	4
16	Food Safety Concerns: Crop Breeding as a Potential Strategy to Address Issues Associated with the Recently Lowered Reference Doses for Perfluorooctanoic Acid and Perfluorooctane sulfonate. Journal of Agricultural and Food Chemistry, 2020, 68, 48-58.	5.2	15
17	Improved cathodic oxygen reduction and bioelectricity generation of electrochemical reactor based on reduced graphene oxide decorated with titanium-based composites. Bioresource Technology, 2020, 296, 122319.	9.6	25
18	Effects of rice straw biochar on sorption and desorption of di-n-butyl phthalate in different soil particle-size fractions. Science of the Total Environment, 2020, 702, 134878.	8.0	27

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19	Spraying carbon powder derived from mango wood biomass as high-performance anode in bio-electrochemical system. Bioresource Technology, 2020, 300, 122623.	9.6	37
20	Occurrence and human health risks of phthalates in indoor air of laboratories. Science of the Total Environment, 2020, 707, 135609.	8.0	45
21	Oxalic Acid in Root Exudates Enhances Accumulation of Perfluorooctanoic Acid in Lettuce. Environmental Science & Technology, 2020, 54, 13046-13055.	10.0	42
22	Prevalent phthalates in air-soil-vegetable systems of plastic greenhouses in a subtropical city and health risk assessments. Science of the Total Environment, 2020, 743, 140755.	8.0	33
23	Dynamics, thermodynamics, and mechanism of perfluorooctane sulfonate (PFOS) sorption to various soil particle-size fractions of paddy soil. Ecotoxicology and Environmental Safety, 2020, 206, 111105.	6.0	13
24	Bioaccumulation and Phytotoxicity and Human Health Risk from Microcystin-LR under Various Treatments: A Pot Study. Toxins, 2020, 12, 523.	3.4	16
25	Effects of arbuscular mycorrhizal fungi on redox homeostasis of rice under Cd stress. Plant and Soil, 2020, 455, 121-138.	3.7	20
26	A Visual Leaf Zymography Technique for the In Situ Examination of Plant Enzyme Activity under the Stress of Environmental Pollution. Journal of Agricultural and Food Chemistry, 2020, 68, 14015-14024.	5.2	4
27	Improved bio-electricity production in bio-electrochemical reactor for wastewater treatment using biomass carbon derived from sludge supported carbon felt anode. Science of the Total Environment, 2020, 726, 138573.	8.0	33
28	Rice root exudates enhance desorption and bioavailability of phthalic acid esters (PAEs) in soil associating with cultivar variation in PAE accumulation. Environmental Research, 2020, 186, 109611.	7.5	40
29	Improving yield and quality of vegetable grown in PAEs-contaminated soils by using novel bioorganic fertilizer. Science of the Total Environment, 2020, 739, 139883.	8.0	17
30	Insights into the binding interaction of substrate with catechol 2,3-dioxygenase from biophysics point of view. Journal of Hazardous Materials, 2020, 391, 122211.	12.4	28
31	AM fungi increase uptake of Cd and BDE-209 and activities of dismutase and catalase in amaranth (Amaranthus hypochondriacus L.) in two contaminants spiked soil. Ecotoxicology and Environmental Safety, 2020, 195, 110485.	6.0	20
32	Regulation Network of Sucrose Metabolism in Response to Trivalent and Hexavalent Chromium in Oryza sativa. Journal of Agricultural and Food Chemistry, 2019, 67, 9738-9748.	5.2	36
33	Comparison of physicochemical properties of biochars and hydrochars produced from food wastes. Journal of Cleaner Production, 2019, 236, 117637.	9.3	100
34	High ecological and human health risks from microcystins in vegetable fields in southern China. Environment International, 2019, 133, 105142.	10.0	67
35	Bioaugmentation of Exogenous Strain Rhodococcus sp. 2G Can Efficiently Mitigate Di(2-ethylhexyl) Phthalate Contamination to Vegetable Cultivation. Journal of Agricultural and Food Chemistry, 2019, 67, 6940-6949.	5.2	29
36	Occurrence and distribution of antibiotics and antibiotic resistant genes in water and sediments of urban rivers with black-odor water in Guangzhou, South China. Science of the Total Environment, 2019, 670, 170-180.	8.0	123

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37	Sorption Mechanism, Kinetics, and Isotherms of Di-n-butyl Phthalate to Different Soil Particle-Size Fractions. Journal of Agricultural and Food Chemistry, 2019, 67, 4734-4745.	5.2	45
38	Variation in metabolism and degradation of di-n-butyl phthalate (DBP) by high- and low-DBP accumulating cultivars of rice (Oryza sativa L.) and crude enzyme extracts. Science of the Total Environment, 2019, 668, 1117-1127.	8.0	30
39	Using cadmium bioavailability to simultaneously predict its accumulation in crop grains and the bioaccessibility in soils. Science of the Total Environment, 2019, 665, 246-252.	8.0	16
40	Co-metabolic degradation of the antibiotic ciprofloxacin by the enriched bacterial consortium XG and its bacterial community composition. Science of the Total Environment, 2019, 665, 41-51.	8.0	83
41	Novel phosphate-solubilising bacteria isolated from sewage sludge and the mechanism of phosphate solubilisation. Science of the Total Environment, 2019, 658, 474-484.	8.0	35
42	Effects of Î²-cyclodextrin on phytoremediation of soil co-contaminated with Cd and BDE-209 by arbuscular mycorrhizal amaranth. Chemosphere, 2019, 220, 910-920.	8.2	22
43	Global Picture of Protein Regulation in Response to Dibutyl Phthalate (DBP) Stress of Two Brassica parachinensis Cultivars Differing in DBP Accumulation. Journal of Agricultural and Food Chemistry, 2018, 66, 4768-4779.	5.2	15
44	Intraspecific variability of ciprofloxacin accumulation, tolerance, and metabolism in Chinese flowering cabbage (Brassica parachinensis). Journal of Hazardous Materials, 2018, 349, 252-261.	12.4	27
45	Genotypic variation and mechanism in uptake and translocation of perfluorooctanoic acid (PFOA) in lettuce (Lactuca sativa L.) cultivars grown in PFOA-polluted soils. Science of the Total Environment, 2018, 636, 999-1008.	8.0	45
46	Soil contamination and sources of phthalates and its health risk in China: A review. Environmental Research, 2018, 164, 417-429.	7.5	239
47	Sorption kinetics, isotherms, and mechanism of aniline aerofloat to agricultural soils with various physicochemical properties. Ecotoxicology and Environmental Safety, 2018, 154, 84-91.	6.0	27
48	Biodegradation of di-n-butyl phthalate (DBP) by a novel endophytic Bacillus megaterium strain YJB3. Science of the Total Environment, 2018, 616-617, 117-127.	8.0	68
49	Cultivar-Dependent Accumulation and Translocation of Perfluorooctanesulfonate among Lettuce (Lactuca sativa L.) Cultivars Grown on Perfluorooctanesulfonate-Contaminated Soil. Journal of Agricultural and Food Chemistry, 2018, 66, 13096-13106.	5.2	25
50	Differences in Root Physiological and Proteomic Responses to Dibutyl Phthalate Exposure between Low- and High-DBP-Accumulation Cultivars of Brassica parachinensis. Journal of Agricultural and Food Chemistry, 2018, 66, 13541-13551.	5.2	13
51	Mechanism and Implication of the Sorption of Perfluorooctanoic Acid by Varying Soil Size Fractions. Journal of Agricultural and Food Chemistry, 2018, 66, 11569-11579.	5.2	43
52	Variations in microbial community and di-(2-ethylhexyl) phthalate (DEHP) dissipation in different rhizospheric compartments between low- and high-DEHP accumulating cultivars of rice (Oryza sativa) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	6.8	23
53	Biodegradation of di-butyl phthalate (DBP) by a novel endophytic bacterium Bacillus subtilis and its bioaugmentation for removing DBP from vegetation slurry. Journal of Environmental Management, 2018, 224, 1-9.	7.8	36
54	Variation in accumulation, transport, and distribution of phthalic acid esters (PAEs) in soil columns grown with low- and high-PAE accumulating rice cultivars. Environmental Science and Pollution Research, 2018, 25, 17768-17780.	5.3	32

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55	Functional genomic analysis of phthalate acid ester (PAE) catabolism genes in the versatile PAE-mineralising bacterium Rhodococcus sp. 2G. Science of the Total Environment, 2018, 640-641, 646-652.	8.0	38
56	Biodegradation pathway of di-(2-ethylhexyl) phthalate by a novel Rhodococcus pyridinivorans XB and its bioaugmentation for remediation of DEHP contaminated soil. Science of the Total Environment, 2018, 640-641, 1121-1131.	8.0	77
57	Efficient phytoremediation of organic contaminants in soils using plantâ€“endophyte partnerships. Science of the Total Environment, 2017, 583, 352-368.	8.0	185
58	A Robust Method for Routine Analysis of Perfluorooctane Sulfonate (PFOS) and Perfluorohexane Sulfonate (PFHxS) in Various Edible Crop Matrices. Food Analytical Methods, 2017, 10, 2518-2528.	2.6	9
59	Variation in accumulation and translocation of di-n-butyl phthalate (DBP) among rice (Oryza sativa L.) genotypes and selection of cultivars for low DBP exposure. Environmental Science and Pollution Research, 2017, 24, 7298-7309.	5.3	30
60	Determination of Trace Perfluoroalkyl Carboxylic Acids in Edible Crop Matrices: Matrix Effect and Method Development. Journal of Agricultural and Food Chemistry, 2017, 65, 8763-8772.	5.2	29
61	Low-molecular-weight organic acids correlate with cultivar variation in ciprofloxacin accumulation in Brassica parachinensis L.. Scientific Reports, 2017, 7, 10301.	3.3	12
62	Enhanced dissipation of DEHP in soil and simultaneously reduced bioaccumulation of DEHP in vegetable using bioaugmentation with exogenous bacteria. Biology and Fertility of Soils, 2017, 53, 663-675.	4.3	40
63	Toxicological effects of microcystin-LR on earthworm (Eisenia fetida) in soil. Biology and Fertility of Soils, 2017, 53, 849-860.	4.3	14
64	Research Progresses of Determination of Perfluorinated Compounds in Environmental Water and Solid Samples. Chinese Journal of Analytical Chemistry, 2017, 45, 601-610.	1.7	20
65	Occurrence and risk assessment of tetracycline antibiotics in soil from organic vegetable farms in a subtropical city, south China. Environmental Science and Pollution Research, 2016, 23, 13984-13995.	5.3	49
66	Sorption of dodecyltrimethylammonium chloride (DTAC) to agricultural soils. Science of the Total Environment, 2016, 560-561, 197-203.	8.0	21
67	Complete degradation of the endocrine disruptor di-(2-ethylhexyl) phthalate by a novel Agromyces sp. MT-O strain and its application to bioremediation of contaminated soil. Science of the Total Environment, 2016, 562, 170-178.	8.0	95
68	Physiological differences in response to di-n-butyl phthalate (DBP) exposure between low- and high-DBP accumulating cultivars of Chinese flowering cabbage (Brassica parachinensis L.). Environmental Pollution, 2016, 208, 840-849.	7.5	24
69	Biodegradation of di-n-butylphthalate and phthalic acid by a novel Providencia sp. 2D and its stimulation in a compost-amended soil. Biology and Fertility of Soils, 2016, 52, 65-76.	4.3	63
70	Effects of the size and morphology of zinc oxide nanoparticles on the germination of Chinese cabbage seeds. Environmental Science and Pollution Research, 2015, 22, 10452-10462.	5.3	82
71	Variations in phthalate ester (PAE) accumulation and their formation mechanism in Chinese flowering cabbage (Brassica parachinensis L.) cultivars grown on PAE-contaminated soils. Environmental Pollution, 2015, 206, 95-103.	7.5	101
72	Analysis of Trace Quaternary Ammonium Compounds (QACs) in Vegetables Using Ultrasonic-Assisted Extraction and Gas Chromatographyâ€“Mass Spectrometry. Journal of Agricultural and Food Chemistry, 2015, 63, 6689-6697.	5.2	22

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73	Genotypic variation in the uptake, accumulation, and translocation of di-(2-ethylhexyl) phthalate by twenty cultivars of rice (Oryza sativa L.). Ecotoxicology and Environmental Safety, 2015, 116, 50-58.	6.0	49
74	Plant Uptake and Enhanced Dissipation of Di(2-Ethylhexyl) Phthalate (DEHP) in Spiked Soils by Different Plant Species. International Journal of Phytoremediation, 2014, 16, 609-620.	3.1	47
75	Distribution and risk assessment of quinolone antibiotics in the soils from organic vegetable farms of a subtropical city, Southern China. Science of the Total Environment, 2014, 487, 399-406.	8.0	111
76	Investigation of Sulfonamide, Tetracycline, and Quinolone Antibiotics in Vegetable Farmland Soil in the Pearl River Delta Area, Southern China. Journal of Agricultural and Food Chemistry, 2011, 59, 7268-7276.	5.2	213
77	Polycyclic Aromatic Hydrocarbons and Phthalic Acid Esters in Vegetables from Nine Farms of the Pearl River Delta, South China. Archives of Environmental Contamination and Toxicology, 2009, 56, 181-189.	4.1	80
78	The status of soil contamination by semivolatile organic chemicals (SVOCs) in China: A review. Science of the Total Environment, 2008, 389, 209-224.	8.0	281