

Haoliang Lu

List of Publications by Year in descending order

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88
papers

2,166
citations

186209

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h-index

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Kandelia obovata (S., L.) Yong tolerance mechanisms to Cadmium: Subcellular distribution, chemical forms and thiol pools. <i>Marine Pollution Bulletin</i> , 2012, 64, 2453-2460.	2.3	123
2	Phenolic metabolism and related heavy metal tolerance mechanism in <i>Kandelia Obovata</i> under Cd and Zn stress. <i>Ecotoxicology and Environmental Safety</i> , 2019, 169, 134-143.	2.9	98
3	Effects of silicon on the distribution of cadmium compartmentation in root tips of <i>Kandelia obovata</i> (S., L.) Yong. <i>Environmental Pollution</i> , 2012, 162, 369-373.	3.7	84
4	Sequestration of heavy metal by glomalin-related soil protein: Implication for water quality improvement in mangrove wetlands. <i>Water Research</i> , 2019, 148, 142-152.	5.3	74
5	Rhizodegradation gradients of phenanthrene and pyrene in sediment of mangrove (<i>Kandelia candel</i> (L.) Tj ETQq1 1.0,784314 rgBT /Ove	6.5	66
6	Phosphorus mediation of cadmium stress in two mangrove seedlings <i>Avicennia marina</i> and <i>Kandelia obovata</i> differing in cadmium accumulation. <i>Ecotoxicology and Environmental Safety</i> , 2017, 139, 272-279.	2.9	62
7	The short-term effect of cadmium on low molecular weight organic acid and amino acid exudation from mangrove (<i>Kandelia obovata</i> (S., L.) Yong) roots. <i>Environmental Science and Pollution Research</i> , 2013, 20, 997-1008.	2.7	57
8	Metal and metalloid contaminant availability in Yundang Lagoon sediments, Xiamen Bay, China, after 20 years continuous rehabilitation. <i>Journal of Hazardous Materials</i> , 2010, 175, 1048-1055.	6.5	55
9	The influence of flavonoid amendment on the absorption of cadmium in <i>Avicennia marina</i> roots. <i>Ecotoxicology and Environmental Safety</i> , 2015, 120, 1-6.	2.9	53
10	Silicon Alleviation of Cadmium Toxicity in Mangrove (<i>Avicennia marina</i>) in Relation to Cadmium Compartmentation. <i>Journal of Plant Growth Regulation</i> , 2014, 33, 233-242.	2.8	47
11	Spatial distribution of glomalin-related soil protein and its relationship with sediment carbon sequestration across a mangrove forest. <i>Science of the Total Environment</i> , 2018, 613-614, 548-556.	3.9	46
12	The distribution of acid-volatile sulfide and simultaneously extracted metals in sediments from a mangrove forest and adjacent mudflat in Zhangjiang Estuary, China. <i>Marine Pollution Bulletin</i> , 2010, 60, 1209-1216.	2.3	43
13	Mangrove-Derived Organic Carbon in Sediment from Zhangjiang Estuary (China) Mangrove Wetland. <i>Journal of Coastal Research</i> , 2009, 254, 949-956.	0.1	42
14	Geochemical and probabilistic human health risk of chromium in mangrove sediments: A case study in Fujian, China. <i>Chemosphere</i> , 2019, 233, 503-511.	4.2	42
15	Optimisation for assay of fluorescein diacetate hydrolytic activity as a sensitive tool to evaluate impacts of pollutants and nutrients on microbial activity in coastal sediments. <i>Marine Pollution Bulletin</i> , 2016, 110, 424-431.	2.3	41
16	Toxicological evaluation of silver nanoparticles and silver nitrate in rats following 28 days of repeated oral exposure. <i>Environmental Toxicology</i> , 2017, 32, 609-618.	2.1	39
17	Exogenous phosphorus enhances cadmium tolerance by affecting cell wall polysaccharides in two mangrove seedlings <i>Avicennia marina</i> (Forsk.) Vierh and <i>Kandelia obovata</i> (S., L.) Yong differing in cadmium accumulation. <i>Marine Pollution Bulletin</i> , 2018, 126, 86-92.	2.3	39
18	Effects of phenolic acids on free radical scavenging and heavy metal bioavailability in <i>kandelia obovata</i> under cadmium and zinc stress. <i>Chemosphere</i> , 2020, 249, 126341.	4.2	39

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19	Response of phenolic metabolism to cadmium and phenanthrene and its influence on pollutant translocations in the mangrove plant <i>Aegiceras corniculatum</i> (L.) Blanco (Ac). <i>Ecotoxicology and Environmental Safety</i> , 2017, 141, 290-297.	2.9	36
20	Processes of coastal ecosystem carbon sequestration and approaches for increasing carbon sink. <i>Science China Earth Sciences</i> , 2017, 60, 809-820.	2.3	35
21	Methylmercury and sulfate-reducing bacteria in mangrove sediments from Jiulong River Estuary, China. <i>Journal of Environmental Sciences</i> , 2011, 23, 14-21.	3.2	34
22	Phosphorus effects on radial oxygen loss, root porosity and iron plaque in two mangrove seedlings under cadmium stress. <i>Marine Pollution Bulletin</i> , 2017, 119, 262-269.	2.3	34
23	Silicon alleviates cadmium toxicity in <i>Avicennia marina</i> (Forsk.) Vierh. seedlings in relation to root anatomy and radial oxygen loss. <i>Marine Pollution Bulletin</i> , 2013, 76, 187-193.	2.3	33
24	Rhizodegradation potential and tolerance of <i>Avicennia marina</i> (Forsk.) Vierh in phenanthrene and pyrene contaminated sediments. <i>Marine Pollution Bulletin</i> , 2016, 110, 112-118.	2.3	33
25	Research on the nitrogen cycle in rhizosphere of <i>Kandelia obovata</i> under ammonium and nitrate addition. <i>Marine Pollution Bulletin</i> , 2013, 76, 227-240.	2.3	32
26	Glomalin-related soil protein deposition and carbon sequestration in the Old Yellow River delta. <i>Science of the Total Environment</i> , 2018, 625, 619-626.	3.9	32
27	Health risk assessment of heavy metal and its mitigation by glomalin-related soil protein in sediments along the South China coast. <i>Environmental Pollution</i> , 2020, 263, 114565.	3.7	31
28	Interactive effects of cadmium and pyrene on contaminant removal from co-contaminated sediment planted with mangrove <i>Kandelia obovata</i> (S., L.) Yong seedlings. <i>Marine Pollution Bulletin</i> , 2014, 84, 306-313.	2.3	30
29	Effect of root exudates on sorption, desorption, and transport of phenanthrene in mangrove sediments. <i>Marine Pollution Bulletin</i> , 2016, 109, 171-177.	2.3	29
30	Response of low-molecular-weight organic acids in mangrove root exudates to exposure of polycyclic aromatic hydrocarbons. <i>Environmental Science and Pollution Research</i> , 2017, 24, 12484-12493.	2.7	29
31	Effects of root exudates on the leachability, distribution, and bioavailability of phenanthrene and pyrene from mangrove sediments. <i>Environmental Science and Pollution Research</i> , 2016, 23, 5566-5576.	2.7	27
32	Terrestrial-derived soil protein in coastal water: metal sequestration mechanism and ecological function. <i>Journal of Hazardous Materials</i> , 2020, 386, 121655.	6.5	27
33	Trace metal pollution risk assessment in urban mangrove patches: Potential linkage with the spectral characteristics of chromophoric dissolved organic matter. <i>Environmental Pollution</i> , 2021, 272, 115996.	3.7	27
34	Identification of Cadmium-responsive <i>Kandelia obovata</i> SOD family genes and response to Cd toxicity. <i>Environmental and Experimental Botany</i> , 2019, 162, 230-238.	2.0	25
35	Interactions of soil metals with glomalin-related soil protein as soil pollution bioindicators in mangrove wetland ecosystems. <i>Science of the Total Environment</i> , 2020, 709, 136051.	3.9	24
36	Effects of root exudates on the mobility of pyrene in mangrove sediment-water system. <i>Catena</i> , 2018, 162, 396-401.	2.2	23

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37	Effect of enhanced reactive nitrogen availability on plant-sediment mediated degradation of polycyclic aromatic hydrocarbons in contaminated mangrove sediment. <i>Marine Pollution Bulletin</i> , 2016, 103, 151-158.	2.3	21
38	SODs involved in the hormone mediated regulation of H ₂ O ₂ content in <i>Kandelia obovata</i> root tissues under cadmium stress. <i>Environmental Pollution</i> , 2020, 256, 113272.	3.7	21
39	Effect of mangrove species on removal of tetrabromobisphenol A from contaminated sediments. <i>Chemosphere</i> , 2020, 244, 125385.	4.2	21
40	Low-level arsenite boosts rhizospheric exudation of low-molecular-weight organic acids from mangrove seedlings (<i>Avicennia marina</i>): Arsenic phytoextraction, removal, and detoxification. <i>Science of the Total Environment</i> , 2021, 775, 145685.	3.9	21
41	Post COVID-19 pandemic: Disposable face masks as a potential vector of antibiotics in freshwater and seawater. <i>Science of the Total Environment</i> , 2022, 820, 153049.	3.9	21
42	Influence of the phenols on the biogeochemical behavior of cadmium in the mangrove sediment. <i>Chemosphere</i> , 2016, 144, 2206-2213.	4.2	20
43	Distribution correlations of cadmium to calcium, phosphorus, sodium and chloridion in mangrove <i>Aegiceras corniculatum</i> root tissues. <i>Marine Pollution Bulletin</i> , 2018, 126, 179-183.	2.3	20
44	Magnetic properties and correlation with heavy metals in mangrove sediments, the case study on the coast of Fujian, China. <i>Marine Pollution Bulletin</i> , 2019, 146, 865-873.	2.3	20
45	Identification of heavy metal pollutant tolerance-associated genes in <i>Avicennia marina</i> (Forsk.) by suppression subtractive hybridization. <i>Marine Pollution Bulletin</i> , 2017, 119, 81-91.	2.3	19
46	Effects of shrimp pond effluents on stocks of organic carbon, nitrogen and phosphorus in soils of <i>Kandelia obovata</i> forests along Jiulong River Estuary. <i>Marine Pollution Bulletin</i> , 2019, 149, 110657.	2.3	18
47	Glomalin-related soil protein enriched in $\delta^{13}C$ and $\delta^{15}N$ excels at storing blue carbon in mangrove wetlands. <i>Science of the Total Environment</i> , 2020, 732, 138327.	3.9	18
48	Influence of seasonal variation and anthropogenic activity on phosphorus cycling and retention in mangrove sediments: A case study in China. <i>Estuarine, Coastal and Shelf Science</i> , 2018, 202, 134-144.	0.9	17
49	The remediation of PAH contaminated sediment with mangrove plant and its derived biochars. <i>Journal of Environmental Management</i> , 2020, 268, 110410.	3.8	17
50	Coastal reclamation mediates heavy metal fractions and ecological risk in saltmarsh sediments of northern Jiangsu Province, China. <i>Science of the Total Environment</i> , 2022, 825, 154028.	3.9	17
51	Coastal soil texture controls soil organic carbon distribution and storage of mangroves in China. <i>Catena</i> , 2021, 207, 105709.	2.2	16
52	Analysis of anatomical changes and cadmium distribution in <i>Aegiceras corniculatum</i> (L.) Blanco roots under cadmium stress. <i>Marine Pollution Bulletin</i> , 2019, 149, 110536.	2.3	15
53	Fluorescent dissolved organic matter facilitates the phytoavailability of copper in the coastal wetlands influenced by artificial topography. <i>Science of the Total Environment</i> , 2021, 790, 147855.	3.9	15
54	Dynamics of low-molecular-weight organic acids for the extraction and sequestration of arsenic species and heavy metals using mangrove sediments. <i>Chemosphere</i> , 2022, 286, 131820.	4.2	14

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55	Glomalin-related soil protein: The particle aggregation mechanism and its insight into coastal environment improvement. <i>Ecotoxicology and Environmental Safety</i> , 2021, 227, 112940.	2.9	13
56	Impact of Predator Cues on Responses to Silver Nanoparticles in <i>Daphnia carinata</i> . <i>Archives of Environmental Contamination and Toxicology</i> , 2015, 69, 494-505.	2.1	12
57	Positive impact of biofilm on reducing the permeation of ampicillin through membrane for membrane bioreactor. <i>Chemosphere</i> , 2014, 97, 34-39.	4.2	11
58	Effects of silicon on growth, root anatomy, radial oxygen loss (ROL) and Fe/Mn plaque of <i>Aegiceras corniculatum</i> (L.) Blanco seedlings exposed to cadmium. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2015, 4, 6-11.	1.7	11
59	Associative nitrogen fixation linked with three perennial bioenergy grasses in field and greenhouse experiments. <i>GCB Bioenergy</i> , 2020, 12, 1104-1117.	2.5	11
60	Immobilization of lead(â€¦) and zinc(â€¦) onto glomalin-related soil protein (GRSP): Adsorption properties and interaction mechanisms. <i>Ecotoxicology and Environmental Safety</i> , 2022, 236, 113489.	2.9	11
61	Comparing analysis of elements sub-cellular distribution in <i>Kandelia obovata</i> between SEM-EDX and chemical extraction. <i>Aquatic Botany</i> , 2014, 112, 10-15.	0.8	10
62	Uptake, biotransformation and physiological response of TBBPA in mangrove plants after hydroponics exposure. <i>Marine Pollution Bulletin</i> , 2020, 151, 110832.	2.3	10
63	Potential and mechanism of glomalin-related soil protein on metal sequestration in mangrove wetlands affected by aquaculture effluents. <i>Journal of Hazardous Materials</i> , 2021, 420, 126517.	6.5	10
64	Effect of land-use and land-cover change on mangrove soil carbon fraction and metal pollution risk in Zhangjiang Estuary, China. <i>Science of the Total Environment</i> , 2022, 807, 150973.	3.9	10
65	Effect of external phosphate addition on solid-phase iron distribution and iron accumulation in Mangrove <i>Kandelia obovata</i> (S. L.). <i>Environmental Science and Pollution Research</i> , 2015, 22, 13506-13513.	2.7	9
66	Influence of polycyclic aromatic hydrocarbons on nitrate reduction capability in mangrove sediments. <i>Marine Pollution Bulletin</i> , 2017, 122, 366-375.	2.3	9
67	The migrated behavior and bioavailability of arsenic in mangrove sediments affected by pH and organic acids. <i>Marine Pollution Bulletin</i> , 2020, 159, 111480.	2.3	9
68	Alleviated Toxicity of Cadmium by the Rhizosphere of <i>Kandelia obovata</i> (S., L.) Yong. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2014, 93, 603-610.	1.3	8
69	Comparative transcriptome analysis reveals different functions of <i>Kandelia obovata</i> superoxide dismutases in regulation of cadmium translocation. <i>Science of the Total Environment</i> , 2021, 771, 144922.	3.9	8
70	Seasonal Variation and Ecological Risk Assessment of Heavy Metal in an Estuarine Mangrove Wetland. <i>Water (Switzerland)</i> , 2021, 13, 2064.	1.2	8
71	The Kinetics and Mechanisms for Photodegradation of Nitrated Polycyclic Aromatic Hydrocarbons on Lettuce Leaf Surfaces: An In Vivo Study. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 8452-8458.	2.4	7
72	The legacy of trace metal deposition from historical anthropogenic river management: A regional driver of offshore sedimentary microbial diversity. <i>Journal of Hazardous Materials</i> , 2020, 400, 123164.	6.5	7

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73	Polycyclic aromatic hydrocarbons at subcritical levels as novel indicators of microbial adaptation in a pre-industrial river delta. <i>Chemosphere</i> , 2022, 295, 133858.	4.2	7
74	Visualizing Localizations and Movement of Anthracene in <i>Kandelia candel</i> (L.) Druce Leaves by Fluorescence Microscopy. <i>Journal of Coastal Research</i> , 2010, 263, 549-554.	0.1	6
75	Fraction distribution and migration of heavy metals in mangrove-sediment system under sulphur and phosphorus amendment. <i>Chemistry and Ecology</i> , 2016, 32, 34-48.	0.6	6
76	Combination of DGT and fluorescence spectroscopy for improved understanding of metal behaviour in mangrove wetland. <i>Chemosphere</i> , 2019, 229, 303-313.	4.2	6
77	Occurrence and characteristics of iron-bearing minerals in surface road dusts: a case study in the coastal areas of southern Fujian, China. <i>Journal of Soils and Sediments</i> , 2020, 20, 3406-3416.	1.5	6
78	Release of sediment metals bound by glomalin related soil protein in waterfowls inhabiting mangrove patches. <i>Environmental Pollution</i> , 2022, 293, 118577.	3.7	6
79	Spatial heterogeneity in chemical composition and stability of glomalin-related soil protein in the coastal wetlands. <i>Science of the Total Environment</i> , 2022, 835, 155351.	3.9	6
80	Risk assessment and driving factors for artificial topography on element heterogeneity: Case study at Jiangsu, China. <i>Environmental Pollution</i> , 2018, 233, 246-260.	3.7	4
81	Traffic-related magnetic pollution in urban dust from the Xiamen Island, China. <i>Environmental Chemistry Letters</i> , 2021, 19, 3991-3997.	8.3	4
82	The fate of dissolved organic matter along the mangrove creek-to-estuary continuum. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 260, 107496.	0.9	4
83	Mapping the scientific knowledge of glomalin-related soil protein with implications for carbon sequestration. <i>Ecosystem Health and Sustainability</i> , 2022, 8, .	1.5	4
84	Effects of sulfur on arsenic accumulation in seedlings of the mangrove <i>Aegiceras conrriculatum</i> . <i>Australian Journal of Botany</i> , 2015, 63, 664.	0.3	3
85	Short-term influence of nutrient availability on the uptake and translocation of phenanthrene in mangrove seedlings. <i>Toxicological and Environmental Chemistry</i> , 2018, 100, 334-347.	0.6	3
86	Iron mineralogy and speciation of sediment iron-bearing minerals in mangrove forest: Case study of Zhangjiang estuary, China. <i>Marine Pollution Bulletin</i> , 2020, 151, 110800.	2.3	3
87	Artificial topography changes the growth strategy of <i>Spartina alterniflora</i> , case study with wave exposure as a comparison. <i>Scientific Reports</i> , 2017, 7, 15768.	1.6	2
88	Extraction and purification of glomalin-related soil protein (GRSP) to determine the associated trace metal(loid)s. <i>MethodsX</i> , 2022, 9, 101670.	0.7	0