

Xiao-Zhang Yu

List of Publications by Year in descending order

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72
papers

1,241
citations

361413

20
h-index

454955

30
g-index

72
all docs

72
docs citations

72
times ranked

880
citing authors

#	ARTICLE	IF	CITATIONS
1	Hexavalent chromium induced stress and metabolic responses in hybrid willows. <i>Ecotoxicology</i> , 2007, 16, 299-309.	2.4	67
2	Activities of nitrate reductase and glutamine synthetase in rice seedlings during cyanide metabolism. <i>Journal of Hazardous Materials</i> , 2012, 225-226, 190-194.	12.4	58
3	Uptake, metabolism, and toxicity of methyl tert-butyl ether (MTBE) in weeping willows. <i>Journal of Hazardous Materials</i> , 2006, 137, 1417-1423.	12.4	54
4	Accumulation and Distribution of Trivalent Chromium and Effects on Hybrid Willow (<i>Salix matsudana</i>) Tj ETQq0 0 0,rgBT /Overlock 10 T	4.1	50
5	Metallothioneins enhance chromium detoxification through scavenging ROS and stimulating metal chelation in <i>Oryza sativa</i> . <i>Chemosphere</i> , 2019, 220, 300-313.	8.2	48
6	Differences in uptake and translocation of hexavalent and trivalent chromium by two species of willows. <i>Ecotoxicology</i> , 2008, 17, 747-755.	2.4	47
7	Unraveling genes promoting ROS metabolism in subcellular organelles of <i>Oryza sativa</i> in response to trivalent and hexavalent chromium. <i>Science of the Total Environment</i> , 2020, 744, 140951.	8.0	45
8	The role of exogenous proline in amelioration of lipid peroxidation in rice seedlings exposed to Cr(VI). <i>International Biodeterioration and Biodegradation</i> , 2017, 123, 106-112.	3.9	39
9	Regulation Network of Sucrose Metabolism in Response to Trivalent and Hexavalent Chromium in <i>Oryza sativa</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 9738-9748.	5.2	36
10	The role of EDTA in phytoextraction of hexavalent and trivalent chromium by two willow trees. <i>Ecotoxicology</i> , 2008, 17, 143-152.	2.4	35
11	Metabolic responses of weeping willows to selenate and selenite. <i>Environmental Science and Pollution Research</i> , 2007, 14, 510-517.	5.3	33
12	Effects of exogenous thiocyanate on mineral nutrients, antioxidative responses and free amino acids in rice seedlings. <i>Ecotoxicology</i> , 2013, 22, 752-760.	2.4	30
13	Kinetics of phyto-accumulation of hexavalent and trivalent chromium in rice seedlings. <i>International Biodeterioration and Biodegradation</i> , 2018, 128, 72-77.	3.9	29
14	Effect of Temperature on the Uptake and Metabolism of Cyanide by Weeping Willows. <i>International Journal of Phytoremediation</i> , 2007, 9, 243-255.	3.1	27
15	Effect of temperature on phytoextraction of hexavalent and trivalent chromium by hybrid willows. <i>Ecotoxicology</i> , 2010, 19, 61-68.	2.4	27
16	Inhibition of the mitochondrial respiratory components (Complex I and Complex III) as stimuli to induce oxidative damage in <i>Oryza sativa</i> L. under thiocyanate exposure. <i>Chemosphere</i> , 2020, 243, 125472.	8.2	26
17	Biotransformation and metabolic response of cyanide in weeping willows. <i>Journal of Hazardous Materials</i> , 2007, 147, 838-844.	12.4	25
18	Phytotoxicity of dimethyl sulfoxide (DMSO) to rice seedlings. <i>International Journal of Environmental Science and Technology</i> , 2016, 13, 607-614.	3.5	23

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19	On the role of \hat{I}^2 -cyanoalanine synthase (CAS) in metabolism of free cyanide and ferri-cyanide by rice seedlings. <i>Ecotoxicology</i> , 2012, 21, 548-556.	2.4	21
20	The potential for phytoremediation of iron cyanide complex by willows. <i>Ecotoxicology</i> , 2006, 15, 461-467.	2.4	20
21	Comparative effects of sodium hydrosulfide and proline on functional repair in rice chloroplast through the D1 protein and thioredoxin system under simulated thiocyanate pollution. <i>Chemosphere</i> , 2021, 284, 131389.	8.2	19
22	Chelator-induced phytoextraction of zinc and copper by rice seedlings. <i>Ecotoxicology</i> , 2014, 23, 749-756.	2.4	17
23	Uptake, assimilation and toxicity of cyanogenic compounds in plants: facts and fiction. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 763-774.	3.5	17
24	Differential expression of the PAL gene family in rice seedlings exposed to chromium by microarray analysis. <i>Ecotoxicology</i> , 2018, 27, 325-335.	2.4	17
25	Molecular evidences on transport of thiocyanate into rice seedlings and assimilation by ^{13}C and ^{15}N labelling and gene expression analyses. <i>International Biodeterioration and Biodegradation</i> , 2019, 139, 11-17.	3.9	17
26	Alternation of antioxidative enzyme gene expression in rice seedlings exposed to methylene blue. <i>Environmental Science and Pollution Research</i> , 2014, 21, 14014-14022.	5.3	16
27	Parameter determination involved in phytotoxicity and transport of cadmium in rice seedlings. <i>International Biodeterioration and Biodegradation</i> , 2014, 96, 121-126.	3.9	16
28	Phytotoxicity of Thiocyanate to Rice Seedlings. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2012, 88, 703-706.	2.7	14
29	Indigenous Proline is a Two-Dimensional Safety-Relief Valve in Balancing Specific Amino Acids in Rice under Hexavalent Chromium Stress. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 11185-11195.	5.2	14
30	Differences in Michaelis-Menten kinetics for different cultivars of maize during cyanide removal. <i>Ecotoxicology and Environmental Safety</i> , 2007, 67, 254-259.	6.0	13
31	Assimilation and physiological effects of ferrocyanide on weeping willows. <i>Ecotoxicology and Environmental Safety</i> , 2008, 71, 609-615.	6.0	13
32	Uptake, accumulation and metabolic response of ferricyanide in weeping willows. <i>Journal of Environmental Monitoring</i> , 2009, 11, 145-152.	2.1	13
33	Analysis of gene expression profiles for metal tolerance protein in rice seedlings exposed to both the toxic hexavalent chromium and trivalent chromium. <i>International Biodeterioration and Biodegradation</i> , 2018, 129, 102-108.	3.9	13
34	Role of cytochrome c in modulating chromium-induced oxidative stress in <i>Oryza sativa</i> . <i>Environmental Science and Pollution Research</i> , 2018, 25, 27639-27649.	5.3	12
35	Quantification of effective concentrations of 1,2-dimethyl phthalate (DMP) to rice seedlings. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 3009-3016.	3.5	11
36	Phytotoxicity and Transport of Gallium (Ga) in Rice Seedlings for 2-Day of Exposure. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2015, 95, 122-125.	2.7	11

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37	mRNA Analysis of Genes Encoded with Phytochelatin Synthase (PCS) in Rice Seedlings Exposed to Chromium: The Role of Phytochelatins in Cr Detoxification. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2018, 101, 257-261.	2.7	11
38	Assimilation of exogenous cyanide cross talk in <i>Oryza sativa</i> L. to the key nodes in nitrogen metabolism. <i>Ecotoxicology</i> , 2020, 29, 1552-1564.	2.4	11
39	Genetic variation and gene expression of anthocyanin synthesis and transport related enzymes in <i>Oryza sativa</i> against thiocyanate. <i>Plant Physiology and Biochemistry</i> , 2021, 160, 18-26.	5.8	11
40	A modelling study of a buffer zone in abating heavy metal contamination from a gold mine of Hainan Province in nearby agricultural area. <i>Journal of Environmental Management</i> , 2021, 287, 112299.	7.8	11
41	The importance of utilizing nitrate (NO ₃ ⁻) over ammonium (NH ₄ ⁺) as nitrogen source during detoxification of exogenous thiocyanate (SCN ⁻) in <i>Oryza sativa</i> . <i>Environmental Science and Pollution Research</i> , 2022, 29, 5622-5633.	5.3	11
42	Effect of temperature on removal of iron cyanides from solution by maize plants. <i>Environmental Science and Pollution Research</i> , 2010, 17, 106-114.	5.3	10
43	Chemometric analysis of N,N-dimethyl formamide-induced phytotoxicity in rice seedlings. <i>International Biodeterioration and Biodegradation</i> , 2017, 125, 54-61.	3.9	10
44	Transcriptomic analysis of cytochrome P450 genes and pathways involved in chromium toxicity in <i>Oryza sativa</i> . <i>Ecotoxicology</i> , 2020, 29, 503-513.	2.4	10
45	Estimating the synergistic and antagonistic effects of dual antibiotics on plants through root elongation test. <i>Ecotoxicology</i> , 2021, 30, 1598-1609.	2.4	10
46	Mathematical quantification of interactive complexity of transcription factors involved in proline-mediated regulative strategies in <i>Oryza sativa</i> under chromium stress. <i>Plant Physiology and Biochemistry</i> , 2022, 182, 36-44.	5.8	10
47	Identification and expression analysis of CYS-A1, CYS-C1, NIT4 genes in rice seedlings exposed to cyanide. <i>Ecotoxicology</i> , 2017, 26, 956-965.	2.4	9
48	Involvement of glutamate receptors in regulating calcium influx in rice seedlings under Cr exposure. <i>Ecotoxicology</i> , 2019, 28, 650-657.	2.4	9
49	Fuzzy synthetic evaluation of the impact of plant growth regulators on the root phenotype traits of rice seedlings under thiocyanate stress. <i>Plant Physiology and Biochemistry</i> , 2021, 158, 182-189.	5.8	9
50	Involvement of ¹² C-cyanoalanine synthase (¹² C-CAS) and sulfurtransferase (ST) in cyanide (CN ⁻) assimilation in rice seedlings. <i>Chemosphere</i> , 2022, 294, 133789.	8.2	9
51	A possible new mechanism involved in ferro-cyanide metabolism by plants. <i>Environmental Science and Pollution Research</i> , 2011, 18, 1343-1350.	5.3	8
52	Kinetics for adsorptive removal of chromium(VI) from aqueous solutions by ferri hydroxide/oxhydroxides. <i>Ecotoxicology</i> , 2014, 23, 734-741.	2.4	8
53	Chromium-induced depression of 15N content and nitrate reductase activity in rice seedlings. <i>International Journal of Environmental Science and Technology</i> , 2017, 14, 29-36.	3.5	8
54	Transcriptome analysis of <i>Oryza sativa</i> in responses to different concentrations of thiocyanate. <i>Environmental Science and Pollution Research</i> , 2019, 26, 11696-11709.	5.3	8

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55	Effects of nitrogen fertilization on removal kinetics of thiocyanate (SCN ⁻) in rice seedlings. <i>International Journal of Environmental Science and Technology</i> , 2020, 17, 4291-4298.	3.5	8
56	Effects of available nitrogen on the uptake and assimilation of ferrocyanide and ferricyanide complexes in weeping willows. <i>Journal of Hazardous Materials</i> , 2008, 156, 300-307.	12.4	7
57	Evidence of iron cyanides as supplementary nitrogen source to rice seedlings. <i>Ecotoxicology</i> , 2012, 21, 1642-1650.	2.4	7
58	Cr-induced disturbance on expression of six COX genes in rice seedlings. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 2385-2394.	3.5	7
59	Jasmonic acid and hydrogen sulfide modulate transcriptional and enzymatic changes of plasma membrane NADPH oxidases (NOXs) and decrease oxidative damage in <i>Oryza sativa</i> L. during thiocyanate exposure. <i>Ecotoxicology</i> , 2021, 30, 1511-1520.	2.4	7
60	Responses of free amino acids in rice seedlings during cyanide metabolism. <i>Environmental Science and Pollution Research</i> , 2014, 21, 1411-1417.	5.3	6
61	Elucidating compartment of the glutamate and ornithine pathway on proline accumulation in rice under different nitrogenous nutrition. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 2993-3000.	3.5	6
62	Integration of RT-qPCR analysis and grey situation decision-making model for evaluating the effects of plant growth regulators on the gene expression in rice seedlings under thiocyanate exposure. <i>Science of the Total Environment</i> , 2021, 783, 146805.	8.0	6
63	Availability of Ferrocyanide and Ferricyanide Complexes as a Nitrogen Source to Cyanogenic Plants. <i>Archives of Environmental Contamination and Toxicology</i> , 2008, 55, 229-237.	4.1	5
64	DNA-protein cross-links involved in growth inhibition of rice seedlings exposed to Ga. <i>Environmental Science and Pollution Research</i> , 2015, 22, 10830-10838.	5.3	5
65	Determination of the Michaelis-Menten kinetics and the genes expression involved in phyto-degradation of cyanide and ferri-cyanide. <i>Ecotoxicology</i> , 2016, 25, 888-899.	2.4	5
66	Tracing the pollution and human risks of potentially toxic elements in agricultural area nearby the cyanide baths from an active private gold mine in Hainan Province, China. <i>Environmental Geochemistry and Health</i> , 2022, 44, 3279-3296.	3.4	5
67	Assessment of ammonium fertilization as a stimulus for proline accumulation in <i>Oryza sativa</i> L. during cyanide assimilation. <i>International Journal of Environmental Science and Technology</i> , 2020, 17, 2811-2818.	3.5	5
68	Transport and Assimilation of Ferricyanide by Three Willow Species. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	2.4	4
69	Effects of trivalent chromium on biomass growth, water use efficiency and distribution of nutrient elements in rice seedlings. <i>Applied Environmental Biotechnology</i> , 2016, 1, 64.	2.4	4
70	Microarray-based expression analysis of phytohormone-related genes in rice seedlings during cyanide metabolism. <i>Environmental Science and Pollution Research</i> , 2018, 25, 19701-19712.	5.3	3
71	Interaction of cyanate uptake by rice seedlings with nitrate assimilation: gene expression analysis. <i>Environmental Science and Pollution Research</i> , 2019, 26, 20208-20218.	5.3	3
72	Implications of the fate of hydrogen sulfide derived from assimilation of thiocyanate in rice plants. <i>Chemosphere</i> , 2022, 306, 135500.	8.2	2