Shafaqat Ali

List of Publications by Year
in descending order

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523 papers	33,452 citations	92 h-index	150 g-index
		3159	7745
538 all docs	538 docs citations	538 times ranked	17227 citing authors

#	Article	IF	Citations
1	The influence of pH and organic matter content in paddy soil on heavy metal availability and their uptake by rice plants. Environmental Pollution, 2011, 159, 84-91.	7.5	970
2	Mechanisms of silicon-mediated alleviation of heavy metal toxicity in plants: A review. Ecotoxicology and Environmental Safety, 2015, 119, 186-197.	6.0	641
3	Zinc and iron oxide nanoparticles improved the plant growth and reduced the oxidative stress and cadmium concentration in wheat. Chemosphere, 2019, 214, 269-277.	8.2	567
4	The effect of excess copper on growth and physiology of important food crops: a review. Environmental Science and Pollution Research, 2015, 22, 8148-8162.	5.3	539
5	Cadmium stress in rice: toxic effects, tolerance mechanisms, and management: a critical review. Environmental Science and Pollution Research, 2016, 23, 17859-17879.	5.3	529
6	Cadmium minimization in wheat: A critical review. Ecotoxicology and Environmental Safety, 2016, 130, 43-53.	6.0	436
7	Effect of metal and metal oxide nanoparticles on growth and physiology of globally important food crops: A critical review. Journal of Hazardous Materials, 2017, 322, 2-16.	12.4	408
8	Interactive effects of drought and heat stresses on morpho-physiological attributes, yield, nutrient uptake and oxidative status in maize hybrids. Scientific Reports, 2019, 9, 3890.	3.3	370
9	Mechanisms of biochar-mediated alleviation of toxicity of trace elements in plants: a critical review. Environmental Science and Pollution Research, 2016, 23, 2230-2248.	5.3	366
10	Effect of biochar on cadmium bioavailability and uptake in wheat (Triticum aestivum L.) grown in a soil with aged contamination. Ecotoxicology and Environmental Safety, 2017, 140, 37-47.	6.0	360
11	A critical review on effects, tolerance mechanisms and management of cadmium in vegetables. Chemosphere, 2017, 182, 90-105.	8.2	352
12	Biochar soil amendment on alleviation of drought and salt stress in plants: a critical review. Environmental Science and Pollution Research, 2017, 24, 12700-12712.	5.3	352
13	Mechanisms of silicon-mediated alleviation of drought and salt stress in plants: a review. Environmental Science and Pollution Research, 2015, 22, 15416-15431.	5.3	322
14	Physiological and biochemical changes during drought and recovery periods at tillering and jointing stages in wheat (Triticum aestivum L.). Scientific Reports, 2018, 8, 4615.	3.3	317
15	Chromium-induced physio-chemical and ultrastructural changes in four cultivars of Brassica napus L.. Chemosphere, 2015, 120, 154-164.	8.2	305
16	Zinc oxide nanoparticles alter the wheat physiological response and reduce the cadmium uptake by plants. Environmental Pollution, 2018, 242, 1518-1526.	7.5	304
17	Citric acid assisted phytoremediation of cadmium by Brassica napus L. Ecotoxicology and Environmental Safety, 2014, 106, 164-172.	6.0	302
18	Alleviation of cadmium toxicity by silicon is related to elevated photosynthesis, antioxidant enzymes; suppressed cadmium uptake and oxidative stress in cotton. Ecotoxicology and Environmental Safety, 2013, 96, 242-249.	6.0	301

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19	Cadmium phytoremediation potential of Brassica crop species: A review. Science of the Total Environment, 2018, 631-632, 1175-1191.	8.0	275
20	Pesticides in Drinking Waterâ€"A Review. International Journal of Environmental Research and Public Health, 2021, 18, 468.	2.6	271
21	Seed priming with silicon nanoparticles improved the biomass and yield while reduced the oxidative stress and cadmium concentration in wheat grains. Environmental Science and Pollution Research, 2019, 26, 7579-7588.	5.3	249
22	Drinking Water Quality Status and Contamination in Pakistan. BioMed Research International, 2017, 2017, 1-18.	1.9	245
23	Biochar application increased the growth and yield and reduced cadmium in drought stressed wheat grown in an aged contaminated soil. Ecotoxicology and Environmental Safety, 2018, 148, 825-833.	6.0	235
24	Insights into cadmium induced physiological and ultra-structural disorders in Juncus effusus L. and its remediation through exogenous citric acid. Journal of Hazardous Materials, 2011, 186, 565-574.	12.4	232
25	Alleviation of cadmium accumulation in maize (Zea mays L.) by foliar spray of zinc oxide nanoparticles and biochar to contaminated soil. Environmental Pollution, 2019, 248, 358-367.	7.5	230
26	Influence of Pseudomonas aeruginosa as PGPR on oxidative stress tolerance in wheat under Zn stress. Ecotoxicology and Environmental Safety, 2014, 104, 285-293.	6.0	223
27	EDTA enhanced plant growth, antioxidant defense system, and phytoextraction of copper by Brassica napus L.. Environmental Science and Pollution Research, 2015, 22, 1534-1544.	5.3	217
28	Application of Floating Aquatic Plants in Phytoremediation of Heavy Metals Polluted Water: A Review. Sustainability, 2020, 12, 1927.	3.2	217
29	Effect of inorganic amendments for in situ stabilization of cadmium in contaminated soils and its phyto-availability to wheat and rice under rotation. Environmental Science and Pollution Research, 2015, 22, 16897-16906.	5.3	212
30	Phytoremediation of heavy metals by Alternanthera bettzickiana: Growth and physiological response. Ecotoxicology and Environmental Safety, 2016, 126, 138-146.	6.0	209
31	Plant growth promoting bacteria confer salt tolerance in Vigna radiata by up-regulating antioxidant defense and biological soil fertility. Plant Growth Regulation, 2016, 80, 23-36.	3.4	202
32	Silicon nanoparticles enhanced the growth and reduced the cadmium accumulation in grains of wheat (Triticum aestivum L.). Plant Physiology and Biochemistry, 2019, 140, 1-8.	5.8	195
33	The influence of silicon on barley growth, photosynthesis and ultra-structure under chromium stress. Ecotoxicology and Environmental Safety, 2013, 89, 66-72.	6.0	194
34	Effect of limestone, lignite and biochar applied alone and combined on cadmium uptake in wheat and rice under rotation in an effluent irrigated field. Environmental Pollution, 2017, 227, 560-568.	7.5	194
35	Citric acid assisted phytoremediation of copper by Brassica napus L.. Ecotoxicology and Environmental Safety, 2015, 120, 310-317.	6.0	191
36	Amelioration of salt induced toxicity in pearl millet by seed priming with silver nanoparticles (AgNPs): The oxidative damage, antioxidant enzymes and ions uptake are major determinants of salt tolerant capacity. Plant Physiology and Biochemistry, 2020, 156, 221-232.	5.8	190

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37	Synthesis, characterization and advanced sustainable applications of titanium dioxide nanoparticles: A review. Ecotoxicology and Environmental Safety, 2021, 212, 111978.	6.0	186
38	Simultaneous mitigation of cadmium and drought stress in wheat by soil application of iron nanoparticles. Chemosphere, 2020, 238, 124681.	8.2	183
39	Effect of biochar on alleviation of cadmium toxicity in wheat (Triticum aestivum L.) grown on Cd-contaminated saline soil. Environmental Science and Pollution Research, 2018, 25, 25668-25680.	5.3	180
40	Plant growth promoting rhizobacteria alleviates drought stress in potato in response to suppressive oxidative stress and antioxidant enzymes activities. Scientific Reports, 2020, 10, 16975.	3.3	179
41	Contrasting effects of biochar, compost and farm manure on alleviation of nickel toxicity in maize (Zea mays L.) in relation to plant growth, photosynthesis and metal uptake. Ecotoxicology and Environmental Safety, 2016, 133, 218-225.	6.0	178
42	Citric acid enhances the phytoextraction of chromium, plant growth, and photosynthesis by alleviating the oxidative damages in Brassica napus L.. Environmental Science and Pollution Research, 2015, 22, 11679-11689.	5.3	176
43	Cadmium stress in cotton seedlings: Physiological, photosynthesis and oxidative damages alleviated by glycinebetaine. South African Journal of Botany, 2016, 104, 61-68.	2.5	176
44	Effect of zinc-lysine on growth, yield and cadmium uptake in wheat (Triticum aestivum L.) and health risk assessment. Chemosphere, 2017, 187, 35-42.	8.2	175
45	Human health implications, risk assessment and remediation of As-contaminated water: A critical review. Science of the Total Environment, 2017, 601-602, 756-769.	8.0	170
46	Interactive effect of salinity and silver nanoparticles on photosynthetic and biochemical parameters of wheat. Archives of Agronomy and Soil Science, 2017, 63, 1736-1747.	2.6	166
47	Residual effects of biochar on growth, photosynthesis and cadmium uptake in rice (Oryza sativa L.) under Cd stress with different water conditions. Journal of Environmental Management, 2018, 206, 676-683.	7.8	166
48	Combined use of biochar and zinc oxide nanoparticle foliar spray improved the plant growth and decreased the cadmium accumulation in rice (Oryza sativa L.) plant. Environmental Science and Pollution Research, 2019, 26, 11288-11299.	5.3	166
49	5-Aminolevulinic Acid Ameliorates the Growth, Photosynthetic Gas Exchange Capacity, and Ultrastructural Changes Under Cadmium Stress in Brassica napus L.. Journal of Plant Growth Regulation, 2013, 32, 604-614.	5.1	165
50	Remediation of arsenic-contaminated water using agricultural wastes as biosorbents. Critical Reviews in Environmental Science and Technology, 2016, 46, 467-499.	12.8	161
51	Biomass production for bioenergy using marginal lands. Sustainable Production and Consumption, 2017, 9, 3-21.	11.0	161
52	Alleviation of chromium toxicity by glycinebetaine is related to elevated antioxidant enzymes and suppressed chromium uptake and oxidative stress in wheat (Triticum aestivum L.). Environmental Science and Pollution Research, 2015, 22, 10669-10678.	5.3	159
53	The Influence of Light Intensity and Leaf Movement on Photosynthesis Characteristics and Carbon Balance of Soybean. Frontiers in Plant Science, 2018, 9, 1952.	3.6	154
54	Foliar exposure of zinc oxide nanoparticles improved the growth of wheat (Triticum aestivum L.) and decreased cadmium concentration in grains under simultaneous Cd and water deficient stress. Ecotoxicology and Environmental Safety, 2021, 208, 111627.	6.0	154

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55	Citric acid improves lead (pb) phytoextraction in brassica napus L. by mitigating pb-induced morphological and biochemical damages. Ecotoxicology and Environmental Safety, 2014, 109, 38-47.	6.0	145
56	Fulvic acid mediates chromium (Cr) tolerance in wheat (Triticum aestivum L.) through lowering of Cr uptake and improved antioxidant defense system. Environmental Science and Pollution Research, 2015, 22, 10601-10609.	5.3	145
57	Responses of wheat (Triticum aestivum) plants grown in a Cd contaminated soil to the application of iron oxide nanoparticles. Ecotoxicology and Environmental Safety, 2019, 173, 156-164.	6.0	145
58	Critical green routing synthesis of silver NPs using jasmine flower extract for biological activities and photocatalytical degradation of methylene blue. Journal of Environmental Chemical Engineering, 2021, 9, 104877.	6.7	145
59	Effects of silicon nanoparticles on growth and physiology of wheat in cadmium contaminated soil under different soil moisture levels. Environmental Science and Pollution Research, 2020, 27, 4958-4968.	5.3	144
60	Transcriptional Factors Regulate Plant Stress Responses Through Mediating Secondary Metabolism. Genes, 2020, 11, 346.	2.4	138
61	Hydrogen sulfide alleviates chromium stress on cauliflower by restricting its uptake and enhancing antioxidative system. Physiologia Plantarum, 2020, 168, 289-300.	5.2	137
62	Influence of phosphorus on copper phytoextraction via modulating cellular organelles in two jute (Corchorus capsularis L.) varieties grown in a copper mining soil of Hubei Province, China. Chemosphere, 2020, 248, 126032.	8.2	137
63	Phosphorus amendment decreased cadmium (Cd) uptake and ameliorates chlorophyll contents, gas exchange attributes, antioxidants, and mineral nutrients in wheat (Triticum aestivumL.) under Cd stress. Archives of Agronomy and Soil Science, 2016, 62, 533-546.	2.6	135
64	5-Aminolevolinic acid mitigates the cadmium-induced changes in Brassica napus as revealed by the biochemical and ultra-structural evaluation of roots. Ecotoxicology and Environmental Safety, 2013, 92, 271-280.	6.0	134
65	Seed priming by sodium nitroprusside improves salt tolerance in wheat (Triticum aestivum L.) by enhancing physiological and biochemical parameters. Plant Physiology and Biochemistry, 2017, 119, 50-58.	5.8	134
66	A critical review on the effects of zinc at toxic levels of cadmium in plants. Environmental Science and Pollution Research, 2019, 26, 6279-6289.	5.3	134
67	Mitigation of Heat Stress in Solanum lycopersicum L. by ACC-deaminase and Exopolysaccharide Producing Bacillus cereus: Effects on Biochemical Profiling. Sustainability, 2020, 12, 2159.	3.2	133
68	Citric acid assisted phytoextraction of chromium by sunflower; morpho-physiological and biochemical alterations in plants. Ecotoxicology and Environmental Safety, 2017, 145, 90-102.	6.0	131
69	Regulation of Cadmium-Induced Proteomic and Metabolic Changes by 5-Aminolevulinic Acid in Leaves of Brassica napus L.. PLoS ONE, 2015, 10, e0123328.	2.5	130
70	Citric acid enhances the phytoextraction of manganese and plant growth by alleviating the ultrastructural damages in Juncus effusus L.. Journal of Hazardous Materials, 2009, 170, 1156-1163.	12.4	129
71	Effect of foliar applications of silicon and titanium dioxide nanoparticles on growth, oxidative stress, and cadmium accumulation by rice (Oryza sativa). Acta Physiologiae Plantarum, 2019, 41, 1.	2.1	129
72	Residual effects of monoammonium phosphate, gypsum and elemental sulfur on cadmium phytoavailability and translocation from soil to wheat in an effluent irrigated field. Chemosphere, 2017, 174, 515-523.	8.2	128

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73	The accumulation of cadmium in wheat (Triticum aestivum) as influenced by zinc oxide nanoparticles and soil moisture conditions. Environmental Science and Pollution Research, 2019, 26, 19859-19870.	5.3	126
74	Hydrogen sulfide alleviates cadmium-induced morpho-physiological and ultrastructural changes in Brassica napus. Ecotoxicology and Environmental Safety, 2014, 110, 197-207.	6.0	124
75	Evaluation of salinity tolerance and analysis of allelic function of HvHKT1 and HvHKT2 in Tibetan wild barley. Theoretical and Applied Genetics, 2011, 122, 695-703.	3.6	123
76	A critical review of mechanisms involved in the adsorption of organic and inorganic contaminants through biochar. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	123
77	Effects of silicon on heavy metal uptake at the soil-plant interphase: A review. Ecotoxicology and Environmental Safety, 2021, 222, 112510.	6.0	122
78	Promotive role of 5-aminolevulinic acid on mineral nutrients and antioxidative defense system under lead toxicity in Brassica napus. Industrial Crops and Products, 2014, 52, 617-626.	5.2	119
79	Remediation of heavy metal contaminated soils by using Solanum nigrum : A review. Ecotoxicology and Environmental Safety, 2017, 143, 236-248.	6.0	118
80	PGPR-Mediated Salt Tolerance in Maize by Modulating Plant Physiology, Antioxidant Defense, Compatible Solutes Accumulation and Bio-Surfactant Producing Genes. Plants, 2022, 11, 345.	3.5	118
81	Use of Maize (Zea mays L.) for phytomanagement of Cd-contaminated soils: a critical review. Environmental Geochemistry and Health, 2017, 39, 259-277.	3.4	116
82	Cadmium uptake and translocation: selenium and siliconÂroles in Cd detoxification for the production of low Cd crops: a critical review. Chemosphere, 2021, 273, 129690.	8.2	116
83	Silicon (Si) alleviates cotton (Gossypium hirsutum L.) from zinc (Zn) toxicity stress by limiting Zn uptake and oxidative damage. Environmental Science and Pollution Research, 2015, 22, 3441-3450.	5.3	112
84	Synthesis, characterization and application of novel MnO and CuO impregnated biochar composites to sequester arsenic (As) from water: Modeling, thermodynamics and reusability. Journal of Hazardous Materials, 2021, 401, 123338.	12.4	112
85	A review of biochar-based sorbents for separation of heavy metals from water. International Journal of Phytoremediation, 2020, 22, 111-126.	3.1	110
86	Synthesis and characterization of titanium dioxide nanoparticles by chemical and green methods and their antifungal activities against wheat rust. Chemosphere, 2020, 258, 127352.	8.2	110
87	Salt stress manifestation on plants, mechanism of salt tolerance and potassium role in alleviating it: a review. Zemdirbyste, 2016, 103, 229-238.	0.8	109
88	Alleviation of cadmium (Cd) toxicity and minimizing its uptake in wheat (Triticum aestivum) by using organic carbon sources in Cd-spiked soil. Environmental Pollution, 2018, 241, 557-565.	7.5	106
89	Phytomanagement of heavy metals in contaminated soils using sunflower: A review. Critical Reviews in Environmental Science and Technology, 2016, 46, 1498-1528.	12.8	105
90	A newly discovered Cd-hyperaccumulator Lantana camara L.. Journal of Hazardous Materials, 2019, 371, 233-242.	12.4	103

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91	Jute: A Potential Candidate for Phytoremediation of Metalsâ€"A Review. Plants, 2020, 9, 258.	3.5	102
92	Flax (Linum usitatissimum L.): A Potential Candidate for Phytoremediation? Biological and Economical Points of View. Plants, 2020, 9, 496.	3.5	102
93	Enhancement of phenanthrene and pyrene degradation in rhizosphere of tall fescue (Festuca) Tj ETQq1 1 0.784314 rgBT /Overlock 10	12.4	101
94	Adsorption of cationic dyes onto carrageenan and itaconic acid-based superabsorbent hydrogel: Synthesis, characterization and isotherm analysis. Journal of Hazardous Materials, 2022, 421, 126729.	12.4	100
95	Effect of shading and light recovery on the growth, leaf structure, and photosynthetic performance of soybean in a maize-soybean relay-strip intercropping system. PLoS ONE, 2018, 13, e0198159.	2.5	99
96	Drought Tolerance of Soybean (Glycine max L. Merr.) by Improved Photosynthetic Characteristics and an Efficient Antioxidant Enzyme Activities Under a Split-Root System. Frontiers in Physiology, 2019, 10, 786.	2.8	99
97	Charge storage in binder-free 2D-hexagonal CoMoO4 nanosheets as a redox active material for pseudocapacitors. Ceramics International, 2021, 47, 8659-8667.	4.8	99
98	5-Aminolevulinic acid ameliorates cadmium-induced morphological, biochemical, and ultrastructural changes in seedlings of oilseed rape. Environmental Science and Pollution Research, 2013, 20, 7256-7267.	5.3	97
99	Glycinebetaine mediates chromium tolerance in mung bean through lowering of Cr uptake and improved antioxidant system. Archives of Agronomy and Soil Science, 2016, 62, 648-662.	2.6	97
100	Role of ironâ€"lysine on morpho-physiological traits and combating chromium toxicity in rapeseed (Brassica napus L.) plants irrigated with different levels of tannery wastewater. Plant Physiology and Biochemistry, 2020, 155, 70-84.	5.8	96
101	Towards achieving eco-efficiency in top 10 polluted countries: The role of green technology and natural resource rents. Gondwana Research, 2022, 110, 114-127.	6.0	96
102	Silicon alleviates nickel toxicity in cotton seedlings through enhancing growth, photosynthesis, and suppressing Ni uptake and oxidative stress. Archives of Agronomy and Soil Science, 2016, 62, 633-647.	2.6	95
103	Effect of biochar modified with magnetite nanoparticles and HNO3 for efficient removal of Cr(VI) from contaminated water: A batch and column scale study. Environmental Pollution, 2020, 261, 114231.	7.5	95
104	Changes in morphology, chlorophyll fluorescence performance and Rubisco activity of soybean in response to foliar application of ionic titanium under normal light and shade environment. Science of the Total Environment, 2019, 658, 626-637.	8.0	94
105	Foliar application of ascorbate enhances the physiological and biochemical attributes of maize (Zea mays L.) cultivars under drought stress. Archives of Agronomy and Soil Science, 2015, 61, 1659-1672.	2.6	93
106	Split application of silicon in cadmium (Cd) spiked alkaline soil plays a vital role in decreasing Cd accumulation in rice (Oryza sativa L.) grains. Chemosphere, 2019, 226, 454-462.	8.2	93
107	Use of Nitric Oxide and Hydrogen Peroxide for Better Yield of Wheat (Triticum aestivum L.) under Water Deficit Conditions: Growth, Osmoregulation, and Antioxidative Defense Mechanism. Plants, 2020, 9, 285.	3.5	93
108	Silicon mediated improvement in the growth and ion homeostasis by decreasing Na+ uptake in maize (Zea mays L.) cultivars exposed to salinity stress. Plant Physiology and Biochemistry, 2021, 158, 208-218.	5.8	93

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109	Mannitol alleviates chromium toxicity in wheat plants in relation to growth, yield, stimulation of anti-oxidative enzymes, oxidative stress and Cr uptake in sand and soil media. Ecotoxicology and Environmental Safety, 2015, 122, 1-8.	6.0	92
110	Chromium resistant microbes and melatonin reduced Cr uptake and toxicity, improved physio-biochemical traits and yield of wheat in contaminated soil. Chemosphere, 2020, 250, 126239.	8.2	91
111	Start-up of UASB reactors treating municipal wastewater and effect of temperature/sludge age and hydraulic retention time (HRT) on its performance. Arabian Journal of Chemistry, 2015, 8, 780-786.	4.9	90
112	Arsenic(V) biosorption by charred orange peel in aqueous environments. International Journal of Phytoremediation, 2016, 18, 442-449.	3.1	90
113	Subcellular distribution and chemical forms of chromium in rice plants suffering from different levels of chromium toxicity. Journal of Plant Nutrition and Soil Science, 2011, 174, 249-256.	1.9	89
114	Effects of <scp>24â€epibrassinolide</scp> on plant growth, antioxidants defense system, and endogenous hormones in two wheat varieties under drought stress. Physiologia Plantarum, 2021, 172, 696-706.	5.2	89
115	Application of abscisic acid and 6-benzylaminopurine modulated morpho-physiological and antioxidative defense responses of tomato (Solanum lycopersicum L.) by minimizing cobalt uptake. Chemosphere, 2021, 263, 128169.	8.2	88
116	Floating Wetlands: A Sustainable Tool for Wastewater Treatment. Clean - Soil, Air, Water, 2018, 46, 1800120.	1.1	85
117	Facet controlled polyhedral ZIF-8 MOF nanostructures for excellent NO2 gas-sensing applications. Materials Research Bulletin, 2021, 136, 111133.	5.2	85
118	The ecotoxicological and interactive effects of chromium and aluminum on growth, oxidative damage and antioxidant enzymes on two barley genotypes differing in Al tolerance. Environmental and Experimental Botany, 2011, 70, 185-191.	4.2	84
119	Proteus mirabilis alleviates zinc toxicity by preventing oxidative stress in maize (Zea mays) plants. Ecotoxicology and Environmental Safety, 2014, 110, 143-152.	6.0	84
120	Glycine Betaine Accumulation, Significance and Interests for Heavy Metal Tolerance in Plants. Plants, 2020, 9, 896.	3.5	84
121	Copper-resistant bacteria reduces oxidative stress and uptake of copper in lentil plants: potential for bacterial bioremediation. Environmental Science and Pollution Research, 2016, 23, 220-233.	5.3	83
122	Improvement of element uptake and antioxidative defense in Brassica napus under lead stress by application of hydrogen sulfide. Plant Growth Regulation, 2014, 74, 261-273.	3.4	82
123	High sorption efficiency for As(III) and As(V) from aqueous solutions using novel almond shell biochar. Chemosphere, 2020, 243, 125330.	8.2	81
124	Comparative effectiveness of different biochars and conventional organic materials on growth, photosynthesis and cadmium accumulation in cereals. Chemosphere, 2019, 227, 72-81.	8.2	80
125	Hydrogen sulfide ameliorates lead-induced morphological, photosynthetic, oxidative damages and biochemical changes in cotton. Environmental Science and Pollution Research, 2014, 21, 717-731.	5.3	79
126	EDTA ameliorates phytoextraction of lead and plant growth by reducing morphological and biochemical injuries in Brassica napus L. under lead stress. Environmental Science and Pollution Research, 2014, 21, 9899-9910.	5.3	79

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127	Review of Upflow Anaerobic Sludge Blanket Reactor Technology: Effect of Different Parameters and Developments for Domestic Wastewater Treatment. Journal of Chemistry, 2018, 2018, 1-13.	1.9	79
128	Chromium-resistant Staphylococcus aureus alleviates chromium toxicity by developing synergistic relationships with zinc oxide nanoparticles in wheat. Ecotoxicology and Environmental Safety, 2022, 230, 113142.	6.0	79
129	Phyto-management of chromium contaminated soils through sunflower under exogenously applied 5-aminolevulinic acid. Ecotoxicology and Environmental Safety, 2018, 151, 255-265.	6.0	78
130	Glycine betaine-induced lead toxicity tolerance related to elevated photosynthesis, antioxidant enzymes suppressed lead uptake and oxidative stress in cotton. Turkish Journal of Botany, 2014, 38, 281-292.	1.2	76
131	Citric acid enhanced the antioxidant defense system and chromium uptake by Lemna minor L. grown in hydroponics under Cr stress. Environmental Science and Pollution Research, 2017, 24, 17669-17678.	5.3	76
132	Effect of foliar-applied iron complexed with lysine on growth and cadmium (Cd) uptake in rice under Cd stress. Environmental Science and Pollution Research, 2018, 25, 20691-20699.	5.3	76
133	Priming-induced antioxidative responses in two wheat cultivars under saline stress. Acta Physiologiae Plantarum, 2015, 37, 1.	2.1	75
134	Role of Microorganisms in the Remediation of Wastewater in Floating Treatment Wetlands: A Review. Sustainability, 2020, 12, 5559.	3.2	75
135	Subcellular distribution, modulation of antioxidant and stress-related genes response to arsenic in Brassica napus L.. Ecotoxicology, 2016, 25, 350-366.	2.4	74
136	Oxidative injury and antioxidant enzymes regulation in arsenic-exposed seedlings of four Brassica napus L. cultivars. Environmental Science and Pollution Research, 2015, 22, 10699-10712.	5.3	73
137	Potassium application mitigates salt stress differentially at different growth stages in tolerant and sensitive maize hybrids. Plant Growth Regulation, 2015, 76, 111-125.	3.4	73
138	Role of Zincâ€“Lysine on Growth and Chromium Uptake in Rice Plants under Cr Stress. Journal of Plant Growth Regulation, 2018, 37, 1413-1422.	5.1	73
139	Glycinebetaine alleviates the chromium toxicity in Brassica oleracea L. by suppressing oxidative stress and modulating the plant morphology and photosynthetic attributes. Environmental Science and Pollution Research, 2020, 27, 1101-1111.	5.3	72
140	Heavy metal remediation and resistance mechanism ofAeromonas,Bacillus, andPseudomonas: A review. Critical Reviews in Environmental Science and Technology, 2022, 52, 1868-1914.	12.8	71
141	Cadmium-induced ultramorphological and physiological changes in leaves of two transgenic cotton cultivars and their wild relative. Journal of Hazardous Materials, 2009, 168, 614-625.	12.4	69
142	Comparative transcriptome profiling of two Brassica napus cultivars under chromium toxicity and its alleviation by reduced glutathione. BMC Genomics, 2016, 17, 885.	2.8	69
143	Comparative efficiency of peanut shell and peanut shell biochar for removal of arsenic from water. Environmental Science and Pollution Research, 2019, 26, 18624-18635.	5.3	69
144	Effect of planting patterns on yield, nutrient accumulation and distribution in maize and soybean underÂrelay intercropping systems. Scientific Reports, 2019, 9, 4947.	3.3	69

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145	Air pollution tolerance index of plants around brick kilns in Rawalpindi, Pakistan. Journal of Environmental Management, 2017, 190, 252-258.	7.8	68
146	Assessing the Correlations between Different Traits in Copper-Sensitive and Copper-Resistant Varieties of Jute (Corchorus capsularis L.). Plants, 2019, 8, 545.	3.5	68
147	Boron supply alleviates cadmium toxicity in rice (Oryza sativa L.) by enhancing cadmium adsorption on cell wall and triggering antioxidant defense system in roots. Chemosphere, 2021, 266, 128938.	8.2	68
148	Alleviation of chromium toxicity by hydrogen sulfide in barley. Environmental Toxicology and Chemistry, 2013, 32, 2234-2239.	4.3	67
149	Approaches in Enhancing Thermotolerance in Plants: An Updated Review. Journal of Plant Growth Regulation, 2020, 39, 456-480.	5.1	67
150	Elucidating silicon-mediated distinct morpho-physio-biochemical attributes and organic acid exudation patterns of cadmium stressed Ajwain (Trachyspermum ammi L.). Plant Physiology and Biochemistry, 2020, 157, 23-37.	5.8	67
151	A Critical Review on the Synthesis of Natural Sodium Alginate Based Composite Materials: An Innovative Biological Polymer for Biomedical Delivery Applications. Processes, 2021, 9, 137.	2.8	67
152	Foliar application of ascorbic acid enhances salinity stress tolerance in barley (Hordeum vulgare L.) through modulation of morpho-physio-biochemical attributes, ions uptake, osmo-protectants and stress response genes expression. Saudi Journal of Biological Sciences, 2021, 28, 4276-4290.	3.8	67
153	Bacillus mycoides PM35 Reinforces Photosynthetic Efficiency, Antioxidant Defense, Expression of Stress-Responsive Genes, and Ameliorates the Effects of Salinity Stress in Maize. Life, 2022, 12, 219.	2.4	67
154	Differential physiological, ultramorphological and metabolic responses of cotton cultivars under cadmium stress. Chemosphere, 2013, 93, 2593-2602.	8.2	66
155	Changes in precipitation extremes over arid to semiarid and subhumid Punjab, Pakistan. Theoretical and Applied Climatology, 2014, 116, 671-680.	2.8	66
156	Uptake and distribution of minerals and heavy metals in commonly grown leafy vegetable species irrigated with sewage water. Environmental Monitoring and Assessment, 2016, 188, 541.	2.7	66
157	Organic chelants-mediated enhanced lead (Pb) uptake and accumulation is associated with higher activity of enzymatic antioxidants in spinach (Spinacea oleracea L.). Journal of Hazardous Materials, 2016, 317, 352-361.	12.4	66
158	Adsorption-reduction performance of tea waste and rice husk biochars for Cr(VI) elimination from wastewater. Journal of Saudi Chemical Society, 2020, 24, 799-810.	5.2	66
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