Muhammad Rizwan

List of Publications by Year
in descending order

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394 papers	27,193 citations	4388 86 h-index	9861 141 g-index
405 all docs	405 docs citations	405 times ranked	14313 citing authors

#	Article	IF	Citations
1	Mechanisms of silicon-mediated alleviation of heavy metal toxicity in plants: A review. Ecotoxicology and Environmental Safety, 2015, 119, 186-197.	6.0	641
2	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
3	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
4	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
5	Cadmium minimization in wheat: A critical review. Ecotoxicology and Environmental Safety, 2016, 130, 43-53.	6.0	436
6	pH Sensitive Hydrogels in Drug Delivery: Brief History, Properties, Swelling, and Release Mechanism, Material Selection and Applications. Polymers, 2017, 9, 137.	4.5	415
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	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
9	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
10	A critical review on effects, tolerance mechanisms and management of cadmium in vegetables. Chemosphere, 2017, 182, 90-105.	8.2	352
11	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
12	Green Synthesis of Zinc Oxide (ZnO) Nanoparticles Using Aqueous Fruit Extracts of Myristica fragrans: Their Characterizations and Biological and Environmental Applications. ACS Omega, 2021, 6, 9709-9722.	3.5	336
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	Zinc oxide nanoparticles alter the wheat physiological response and reduce the cadmium uptake by plants. Environmental Pollution, 2018, 242, 1518-1526.	7.5	304
15	Citric acid assisted phytoremediation of cadmium by Brassica napus L. Ecotoxicology and Environmental Safety, 2014, 106, 164-172.	6.0	302
16	Effect of silicon on wheat seedlings (Triticum turgidum L.) grown in hydroponics and exposed to 0 to 30ÂÂµM Cu. Planta, 2015, 241, 847-860.	3.2	295
17	Effect of silicon on reducing cadmium toxicity in durum wheat (Triticum turgidum L. cv. Claudio W.) grown in a soil with aged contamination. Journal of Hazardous Materials, 2012, 209-210, 326-334.	12.4	288
18	Cadmium phytoremediation potential of Brassica crop species: A review. Science of the Total Environment, 2018, 631-632, 1175-1191.	8.0	275

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19	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
20	Drinking Water Quality Status and Contamination in Pakistan. BioMed Research International, 2017, 2017, 1-18.	1.9	245
21	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
22	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
23	Silicon alleviates Cd stress of wheat seedlings (Triticum turgidum L. cv. Claudio) grown in hydroponics. Environmental Science and Pollution Research, 2016, 23, 1414-1427.	5.3	224
24	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
25	Application of Floating Aquatic Plants in Phytoremediation of Heavy Metals Polluted Water: A Review. Sustainability, 2020, 12, 1927.	3.2	217
26	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
27	Phytoremediation of heavy metals by Alternanthera bettzickiana: Growth and physiological response. Ecotoxicology and Environmental Safety, 2016, 126, 138-146.	6.0	209
28	Influence of soil properties and feedstocks on biochar potential for carbon mineralization and improvement of infertile soils. Geoderma, 2018, 332, 100-108.	5.1	206
29	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
30	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
31	Advances and future directions of biochar characterization methods and applications. Critical Reviews in Environmental Science and Technology, 2017, 47, 2275-2330.	12.8	194
32	Biochar enhances the cadmium tolerance in spinach (Spinacia oleracea) through modification of Cd uptake and physiological and biochemical attributes. Environmental Science and Pollution Research, 2016, 23, 21385-21394.	5.3	192
33	Citric acid assisted phytoremediation of copper by Brassica napus L.. Ecotoxicology and Environmental Safety, 2015, 120, 310-317.	6.0	191
34	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
35	Synthesis, characterization and advanced sustainable applications of titanium dioxide nanoparticles: A review. Ecotoxicology and Environmental Safety, 2021, 212, 111978.	6.0	186
36	Simultaneous mitigation of cadmium and drought stress in wheat by soil application of iron nanoparticles. Chemosphere, 2020, 238, 124681.	8.2	183

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37	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
38	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
39	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
40	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
41	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
42	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
43	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
44	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
45	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
46	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
47	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
48	Silicon occurrence, uptake, transport and mechanisms of heavy metals, minerals and salinity enhanced tolerance in plants with future prospects: A review. Journal of Environmental Management, 2016, 183, 521-529.	7.8	158
49	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
50	Heavy metal-induced oxidative stress on seed germination and seedling development: a critical review. Environmental Geochemistry and Health, 2019, 41, 1813-1831.	3.4	149
51	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
52	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
53	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
54	Seed priming with melatonin coping drought stress in rapeseed by regulating reactive oxygen species detoxification: Antioxidant defense system, osmotic adjustment, stomatal traits and chloroplast ultrastructure perseveration. Industrial Crops and Products, 2019, 140, 111597.	5.2	138

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55	Hydrogen sulfide alleviates chromium stress on cauliflower by restricting its uptake and enhancing antioxidative system. Physiologia Plantarum, 2020, 168, 289-300.	5.2	137
56	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
57	Synergistic effect of silicon and selenium on the alleviation of cadmium toxicity in rice plants. Journal of Hazardous Materials, 2021, 401, 123393.	12.4	137
58	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
59	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
60	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
61	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
62	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
63	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
64	Nitric oxide induces rice tolerance to excessive nickel by regulating nickel uptake, reactive oxygen species detoxification and defense-related gene expression. Chemosphere, 2018, 191, 23-35.	8.2	128
65	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
66	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
67	Effects of silicon on heavy metal uptake at the soil-plant interphase: A review. Ecotoxicology and Environmental Safety, 2021, 222, 112510.	6.0	122
68	Experimental and theoretical aspects of biochar-supported nanoscale zero-valent iron activating H2O2 for ciprofloxacin removal from aqueous solution. Journal of Hazardous Materials, 2019, 380, 120848.	12.4	119
69	Foliar application of silicon nanoparticles affected the growth, vitamin C, flavonoid, and antioxidant enzyme activities of coriander (Coriandrum sativum L.) plants grown in lead (Pb)-spiked soil. Environmental Science and Pollution Research, 2021, 28, 1417-1425.	5.3	119
70	Remediation of heavy metal contaminated soils by using Solanum nigrum : A review. Ecotoxicology and Environmental Safety, 2017, 143, 236-248.	6.0	118
71	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
72	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

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73	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
74	A review of biochar-based sorbents for separation of heavy metals from water. International Journal of Phytoremediation, 2020, 22, 111-126.	3.1	110
75	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
76	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
77	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
78	Agroforestry: a sustainable environmental practice for carbon sequestration under the climate change scenariosâ€"a review. Environmental Science and Pollution Research, 2017, 24, 11177-11191.	5.3	104
79	Jute: A Potential Candidate for Phytoremediation of Metalsâ€"A Review. Plants, 2020, 9, 258.	3.5	102
80	Flax (Linum usitatissimum L.): A Potential Candidate for Phytoremediation? Biological and Economical Points of View. Plants, 2020, 9, 496.	3.5	102
81	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
82	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
83	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
84	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
85	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
86	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
87	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
88	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
89	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
90	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

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91	Impact of different amendments on biochemical responses of sesame (Sesamum indicum L.) plants grown in lead-cadmium contaminated soil. Plant Physiology and Biochemistry, 2018, 132, 345-355.	5.8	90
92	Iodine biofortification of wheat, rice and maize through fertilizer strategy. Plant and Soil, 2017, 418, 319-335.	3.7	89
93	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
94	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
95	Glycine Betaine Accumulation, Significance and Interests for Heavy Metal Tolerance in Plants. Plants, 2020, 9, 896.	3.5	84
96	Loading of Cefixime to pH sensitive chitosan based hydrogel and investigation of controlled release kinetics. International Journal of Biological Macromolecules, 2020, 155, 1236-1244.	7.5	83
97	High sorption efficiency for As(III) and As(V) from aqueous solutions using novel almond shell biochar. Chemosphere, 2020, 243, 125330.	8.2	81
98	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
99	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
100	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
101	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
102	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
103	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
104	Comparative efficacy of organic and inorganic silicon fertilizers on antioxidant response, Cd/Pb accumulation and health risk assessment in wheat (Triticum aestivum L.). Environmental Pollution, 2019, 255, 113146.	7.5	75
105	Role of Microorganisms in the Remediation of Wastewater in Floating Treatment Wetlands: A Review. Sustainability, 2020, 12, 5559.	3.2	75
106	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
107	Hydrogen sulfide enhances rice tolerance to nickel through the prevention of chloroplast damage and the improvement of nitrogen metabolism under excessive nickel. Plant Physiology and Biochemistry, 2019, 138, 100-111.	5.8	73
108	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

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109	Morpho-physiological and biochemical responses of tolerant and sensitive rapeseed cultivars to drought stress during early seedling growth stage. Acta Physiologiae Plantarum, 2019, 41, 1.	2.1	71
110	Isolation and characterization of lead (Pb) resistant microbes and their combined use with silicon nanoparticles improved the growth, photosynthesis and antioxidant capacity of coriander (Coriandrum sativum L.) under Pb stress. Environmental Pollution, 2020, 266, 114982.	7.5	71
111	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
112	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
113	Air pollution tolerance index of plants around brick kilns in Rawalpindi, Pakistan. Journal of Environmental Management, 2017, 190, 252-258.	7.8	68
114	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
115	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
116	Human health risk assessment of arsenic in groundwater aquifers of Lahore, Pakistan. Human and Ecological Risk Assessment (HERA), 2017, 23, 836-850.	3.4	67
117	Approaches in Enhancing Thermotolerance in Plants: An Updated Review. Journal of Plant Growth Regulation, 2020, 39, 456-480.	5.1	67
118	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
119	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
120	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
121	Appraisal for organic amendments and plant growthâ€promoting rhizobacteria to enhance crop productivity under drought stress: A review. Journal of Agronomy and Crop Science, 2021, 207, 783-802.	3.5	66
122	Arsenic behavior in soil-plant system and its detoxification mechanisms in plants: A review. Environmental Pollution, 2021, 286, 117389.	7.5	66
123	Foliar application of aspartic acid lowers cadmium uptake and Cd-induced oxidative stress in rice under Cd stress. Environmental Science and Pollution Research, 2017, 24, 21938-21947.	5.3	65
124	Effect of Corn Residue Biochar on the Hydraulic Properties of Sandy Loam Soil. Sustainability, 2017, 9, 266.	3.2	65
125	Application of co-composted farm manure and biochar increased the wheat growth and decreased cadmium accumulation in plants under different water regimes. Chemosphere, 2020, 246, 125809.	8.2	65
126	Combined application of citric acid and 5-aminolevulinic acid improved biomass, photosynthesis and gas exchange attributes of sunflower (Helianthus annuus L.) grown on chromium contaminated soil. International Journal of Phytoremediation, 2019, 21, 760-767.	3.1	64

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127	Farmyard manure alone and combined with immobilizing amendments reduced cadmium accumulation in wheat and rice grains grown in field irrigated with raw effluents. Chemosphere, 2018, 199, 468-476.	8.2	63
128	Effects of co-composting of farm manure and biochar on plant growth and carbon mineralization in an alkaline soil. Environmental Science and Pollution Research, 2017, 24, 26060-26068.	5.3	62
129	Phragmites australis in combination with hydrocarbons degrading bacteria is a suitable option for remediation of diesel-contaminated water in floating wetlands. Chemosphere, 2020, 240, 124890.	8.2	62
130	Engineered ZnO and CuO Nanoparticles Ameliorate Morphological and Biochemical Response in Tissue Culture Regenerants of Candyleaf (Stevia rebaudiana). Molecules, 2020, 25, 1356.	3.8	62
131	Biofilm forming rhizobacteria enhance growth and salt tolerance in sunflower plants by stimulating antioxidant enzymes activity. Plant Physiology and Biochemistry, 2020, 156, 242-256.	5.8	61
132	Bacillus siamensis Reduces Cadmium Accumulation and Improves Growth and Antioxidant Defense System in Two Wheat (Triticum aestivum L.) Varieties. Plants, 2020, 9, 878.	3.5	61
133	A manipulative interplay between positive and negative regulators of phytohormones: A way forward for improving drought tolerance in plants. Physiologia Plantarum, 2021, 172, 1269-1290.	5.2	61
134	Photosynthesis and growth response of maize (Zea mays L.) hybrids exposed to cadmium stress. Environmental Science and Pollution Research, 2017, 24, 5521-5529.	5.3	60
135	Comparing the performance of four macrophytes in bacterial assisted floating treatment wetlands for the removal of trace metals (Fe, Mn, Ni, Pb, and Cr) from polluted river water. Chemosphere, 2020, 243, 125353.	8.2	60
136	Recent advancement and development of chitin and chitosan-based nanocomposite for drug delivery: Critical approach to clinical research. Arabian Journal of Chemistry, 2020, 13, 8935-8964.	4.9	59
137	Exogenous abscisic acid and jasmonic acid restrain polyethylene glycolâ€induced drought by improving the growth and antioxidative enzyme activities in pearl millet. Physiologia Plantarum, 2021, 172, 809-819.	5.2	59
138	Exogenously applied growth regulators protect the cotton crop from heat-induced injury by modulating plant defense mechanism. Scientific Reports, 2018, 8, 17086.	3.3	58
139	Residual effects of frequently available organic amendments on cadmium bioavailability and accumulation in wheat. Chemosphere, 2020, 244, 125548.	8.2	58
140	Physiological and biochemical response of wheat (Triticum aestivum) to TiO2 nanoparticles in phosphorous amended soil: A full life cycle study. Journal of Environmental Management, 2020, 263, 110365.	7.8	58
141	Combined effect of Bacillus fortis IAGS 223 and zinc oxide nanoparticles to alleviate cadmium phytotoxicity in Cucumis melo. Plant Physiology and Biochemistry, 2021, 158, 1-12.	5.8	58
142	Citric Acid Enhances Plant Growth, Photosynthesis, and Phytoextraction of Lead by Alleviating the Oxidative Stress in Castor Beans. Plants, 2019, 8, 525.	3.5	57
143	Ethylenediaminetetraacetic Acid (EDTA) Mitigates the Toxic Effect of Excessive Copper Concentrations on Growth, Gaseous Exchange and Chloroplast Ultrastructure of Corchorus capsularis L. and Improves Copper Accumulation Capabilities. Plants, 2020, 9, 756.	3.5	57
144	Effects of nanoparticles on trace element uptake and toxicity in plants: A review. Ecotoxicology and Environmental Safety, 2021, 221, 112437.	6.0	57

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145	Efficiency of various sewage sludges and their biochars in improving selected soil properties and growth of wheat (Triticum aestivum). Journal of Environmental Management, 2018, 223, 607-613.	7.8	56
146	PEG 6000-Stimulated Drought Stress Improves the Attributes of In Vitro Growth, Steviol Glycosides Production, and Antioxidant Activities in Stevia rebaudiana Bertoni. Plants, 2020, 9, 1552.	3.5	56
147	Management of tannery wastewater for improving growth attributes and reducing chromium uptake in spinach through citric acid application. Environmental Science and Pollution Research, 2018, 25, 10848-10856.	5.3	55
148	Effect of gibberellic acid on growth, photosynthesis and antioxidant defense system of wheat under zinc oxide nanoparticle stress. Environmental Pollution, 2019, 254, 113109.	7.5	55
149	Residual effects of biochar and phosphorus on growth and nutrient accumulation by maize (Zea mays) Tj ETQq1 1 0.784314 rgBT /Ov	8.2	55
150	Effect of green and chemically synthesized titanium dioxide nanoparticles on cadmium accumulation in wheat grains and potential dietary health risk: A field investigation. Journal of Hazardous Materials, 2021, 415, 125585.	12.4	55
151	Silicon elevated cadmium tolerance in wheat (Triticum aestivum L.) by endorsing nutrients uptake and antioxidative defense mechanisms in the leaves. Plant Physiology and Biochemistry, 2021, 166, 148-159.	5.8	55
152	Promotive role of 5-aminolevulinic acid on chromium-induced morphological, photosynthetic, and oxidative changes in cauliflower (Brassica oleracea botrytis L.). Environmental Science and Pollution Research, 2017, 24, 8814-8824.	5.3	54
153	Role of mineral nutrition in alleviation of heat stress in cotton plants grown in glasshouse and field conditions. Scientific Reports, 2019, 9, 13022.	3.3	54
154	Comparative Effects of Biochar, Slag and Ferrousâ€“Mn Ore on Lead and Cadmium Immobilization in Soil. Bulletin of Environmental Contamination and Toxicology, 2018, 100, 286-292.	2.7	53
155	Zinc-lysine Supplementation Mitigates Oxidative Stress in Rapeseed (Brassica napus L.) by Preventing Phytotoxicity of Chromium, When Irrigated with Tannery Wastewater. Plants, 2020, 9, 1145.	3.5	53
156	Influence of biochar amendment and foliar application of iron oxide nanoparticles on growth, photosynthesis, and cadmium accumulation in rice biomass. Journal of Soils and Sediments, 2019, 19, 3749-3759.	3.0	52
157	Copper Uptake and Accumulation, Ultra-Structural Alteration, and Bast Fibre Yield and Quality of Fibrous Jute (Corchorus capsularis L.) Plants Grown under Two Different Soils of China. Plants, 2020, 9, 404.	3.5	52
158	Green magnesium oxide nanoparticles-based modulation of cellular oxidative repair mechanisms to reduce arsenic uptake and translocation in rice (Oryza sativa L.) plants. Environmental Pollution, 2021, 288, 117785.	7.5	52
159	Ironâ€“Lysine Mediated Alleviation of Chromium Toxicity in Spinach (Spinacia oleracea L.) Plants in Relation to Morpho-Physiological Traits and Iron Uptake When Irrigated with Tannery Wastewater. Sustainability, 2020, 12, 6690.	3.2	52
160	Effect of different amendments on rice (Oryza sativa L.) growth, yield, nutrient uptake and grain quality in Ni-contaminated soil. Environmental Science and Pollution Research, 2016, 23, 18585-18595.	5.3	51
161	Physiological and biochemical mechanisms of silicon-induced copper stress tolerance in cotton (Gossypium hirsutum L.). Acta Physiologiae Plantarum, 2016, 38, 1.	2.1	50
162	Effects of selenium on the uptake of toxic trace elements by crop plants: A review. Critical Reviews in Environmental Science and Technology, 2021, 51, 2531-2566.	12.8	50

#	Article	IF	Citations
163	Interactions of nanoparticles and salinity stress at physiological, biochemical and molecular levels in plants: A review. Ecotoxicology and Environmental Safety, 2021, 225, 112769.	6.0	50
164	Edible mushroom (Flammulina velutipes) as biosource for silver nanoparticles: from synthesis to diverse biomedical and environmental applications. Nanotechnology, 2021, 32, 065101.	2.6	50
165	Zinc Oxide Nanoparticles and Their Biosynthesis: Overview. Life, 2022, 12, 594.	2.4	49
166	Phyto-management of Cr-contaminated soils by sunflower hybrids: physiological and biochemical response and metal extractability under Cr stress. Environmental Science and Pollution Research, 2017, 24, 16845-16859.	5.3	48
167	Alpha-tocopherol fertigation confers growth physio-biochemical and qualitative yield enhancement in field grown water deficit wheat (Triticum aestivum L.). Scientific Reports, 2019, 9, 12924.	3.3	48
168	EDTA-assisted phytoextraction of lead and cadmium by Pelargonium cultivars grown on spiked soil. International Journal of Phytoremediation, 2019, 21, 101-110.	3.1	48
169	Ameliorating the Drought Stress for Wheat Growth through Application of ACC-Deaminase Containing Rhizobacteria along with Biogas Slurry. Sustainability, 2020, 12, 6022.	3.2	48
170	Silver nanoparticles improved the plant growth and reduced the sodium and chlorine accumulation in pearl millet: a life cycle study. Environmental Science and Pollution Research, 2021, 28, 13712-13724.	5.3	48
171	Efficiency of various silicon rich amendments on growth and cadmium accumulation in field grown cereals and health risk assessment. Chemosphere, 2020, 244, 125481.	8.2	46
172	Combined use of different nanoparticles effectively decreased cadmium (Cd) concentration in grains of wheat grown in a field contaminated with Cd. Ecotoxicology and Environmental Safety, 2021, 215, 112139.	6.0	46
173	Lead Toxicity in Cereals and Its Management Strategies: a Critical Review. Water, Air, and Soil Pollution, 2018, 229, 1.	2.4	45
174	Biochar-induced immobilization and transformation of silver-nanoparticles affect growth, intracellular-radicles generation and nutrients assimilation by reducing oxidative stress in maize. Journal of Hazardous Materials, 2020, 390, 121976.	12.4	45
175	Research advances and applications of biosensing technology for the diagnosis of pathogens in sustainable agriculture. Environmental Science and Pollution Research, 2021, 28, 9002-9019.	5.3	45
176	Alleviative role of exogenously applied mannitol in maize cultivars differing in chromium stress tolerance. Environmental Science and Pollution Research, 2019, 26, 5111-5121.	5.3	44
177	Assessment of grain yield indices in response to drought stress in wheat (Triticum aestivum L.). Saudi Journal of Biological Sciences, 2020, 27, 1818-1823.	3.8	44
178	Effect of acidified biochar on bioaccumulation of cadmium (Cd) and rice growth in contaminated soil. Environmental Technology and Innovation, 2020, 19, 101015.	6.1	44
179	Effective sequestration of Congo red dye with ZnO/cotton stalks biochar nanocomposite: MODELING, reusability and stability. Journal of Saudi Chemical Society, 2021, 25, 101176.	5.2	44
180	Comparative efficacy of raw and HNO3-modified biochar derived from rice straw on vanadium transformation and its uptake by rice (Oryza sativa L.): Insights from photosynthesis, antioxidative response, and gene-expression profile. Environmental Pollution, 2021, 289, 117916.	7.5	44

#	Article	IF	Citations
181	Individual and combined application of EDTA and citric acid assisted phytoextraction of copper using jute (Corchorus capsularis L.) seedlings. Environmental Technology and Innovation, 2020, 19, 100895.	6.1	44
182	Green synthesized silver nanoparticles induced cytogenotoxic and genotoxic changes in Allium cepa L. varies with nanoparticles doses and duration of exposure. Chemosphere, 2020, 243, 125430.	8.2	43
183	A review on remediation of harmful dyes through visible light-driven WO3 photocatalytic nanomaterials. International Journal of Environmental Science and Technology, 2019, 16, 4975-4988.	3.5	42
184	Kinetics and controlled release of lidocaine from novel carrageenan and alginate-based blend hydrogels. International Journal of Biological Macromolecules, 2020, 147, 67-78.	7.5	41
185	Interactive role of zinc and iron lysine on Spinacia oleracea L. growth, photosynthesis and antioxidant capacity irrigated with tannery wastewater. Physiology and Molecular Biology of Plants, 2020, 26, 2435-2452.	3.1	41
186	Curcuma longa Mediated Synthesis of Copper Oxide, Nickel Oxide and Cu-Ni Bimetallic Hybrid Nanoparticles: Characterization and Evaluation for Antimicrobial, Anti-Parasitic and Cytotoxic Potentials. Coatings, 2021, 11, 849.	2.6	40
187	Prevailing trends of climatic extremes across Indus-Delta of Sindh-Pakistan. Theoretical and Applied Climatology, 2018, 131, 1101-1117.	2.8	38
188	Zinc-lysine prevents chromium-induced morphological, photosynthetic, and oxidative alterations in spinach irrigated with tannery wastewater. Environmental Science and Pollution Research, 2019, 26, 28951-28961.	5.3	38
189	Implementation of Floating Treatment Wetlands for Textile Wastewater Management: A Review. Sustainability, 2020, 12, 5801.	3.2	38
190	Accumulation potential and tolerance response of Typha latifolia L. under citric acid assisted phytoextraction of lead and mercury. Chemosphere, 2020, 257, 127247.	8.2	38
191	Role of Exogenous and Endogenous Hydrogen Sulfide (H2S) on Functional Traits of Plants Under Heavy Metal Stresses: A Recent Perspective. Frontiers in Plant Science, 2020, 11, 545453.	3.6	38
192	Phytoremediation of landfill leachate waste contaminants through floating bed technique using water hyacinth and water lettuce. International Journal of Phytoremediation, 2019, 21, 1356-1367.	3.1	37
193	Potential of siltstone and its composites with biochar and magnetite nanoparticles for the removal of cadmium from contaminated aqueous solutions: Batch and column scale studies. Environmental Pollution, 2020, 259, 113938.	7.5	37
194	Effect of composted organic amendments and zinc oxide nanoparticles on growth and cadmium accumulation by wheat; a life cycle study. Environmental Science and Pollution Research, 2020, 27, 23926-23936.	5.3	37
195	Combined application of zinc and iron-lysine and its effects on morpho-physiological traits, antioxidant capacity and chromium uptake in rapeseed (Brassica napus L.). PLoS ONE, 2022, 17, e0262140.	2.5	37
196	Chemically synthesized silver nanoparticles induced physio-chemical and chloroplast ultrastructural changes in broad bean seedlings. Chemosphere, 2019, 235, 1066-1072.	8.2	36
197	Synthesis and Application of Titanium Dioxide Nanoparticles for Removal of Cadmium from Wastewater: Kinetic and Equilibrium Study. Water, Air, and Soil Pollution, 2019, 230, 1.	2.4	36
198	Multi-metal resistance and plant growth promotion potential of a wastewater bacterium Pseudomonas aeruginosa and its synergistic benefits. Environmental Geochemistry and Health, 2017, 39, 1583-1593.	3.4	35

#	Article	IF	Citations
199	Potential of Duckweed (<i>Lemna minor</i>) for the Phytoremediation of Landfill Leachate. Journal of Chemistry, 2018, 2018, 1-9.	1.9	35
200	Effects of Rhizophagus clarus and biochar on growth, photosynthesis, nutrients, and cadmium (Cd) concentration of maize (Zea mays) grown in Cd-spiked soil. Environmental Science and Pollution Research, 2019, 26, 20689-20700.	5.3	35
201	Effect of poultry litter biochar on chromium (Cr) bioavailability and accumulation in spinach (Spinacia oleracea) grown in Cr-polluted soil. Arabian Journal of Geosciences, 2019, 12, 1.	1.3	35
202	Current trends and future prospective in nanoremediation of heavy metals contaminated soils: A way forward towards sustainable agriculture. Ecotoxicology and Environmental Safety, 2021, 227, 112888.	6.0	35
203	Understanding the Phytoremediation Mechanisms of Potentially Toxic Elements: A Proteomic Overview of Recent Advances. Frontiers in Plant Science, 2022, 13, .	3.6	35
204	Potential impact of biochar types and microbial inoculants on growth of onion plant in differently textured and phosphorus limited soils. Journal of Environmental Management, 2019, 247, 672-680.	7.8	34
205	Variations in morphological and physiological traits of wheat regulated by chromium species in long-term tannery effluent irrigated soils. Chemosphere, 2019, 222, 891-903.	8.2	33
206	Lead toxicity induced phytotoxic effects on mung bean can be relegated by lead tolerant Bacillus subtilis (PbRB3). Chemosphere, 2019, 234, 70-80.	8.2	33
207	Glutamic acid assisted phyto-management of silver-contaminated soils through sunflower; physiological and biochemical response. Environmental Science and Pollution Research, 2018, 25, 25390-25400.	5.3	32
208	Selective Removal of Hexavalent Chromium from Wastewater by Rice Husk: Kinetic, Isotherm and Spectroscopic Investigation. Water (Switzerland), 2021, 13, 263.	2.7	32
209	TiO2 nanoparticles dose, application method and phosphorous levels influence genotoxicity in Rice (Oryza sativa L.), soil enzymatic activities and plant growth. Ecotoxicology and Environmental Safety, 2021, 213, 111977.	6.0	32
210	Synthesis of magnetite-based nanocomposites for effective removal of brilliant green dye from wastewater. Environmental Science and Pollution Research, 2019, 26, 24489-24502.	5.3	31
211	Efficacy of Zea mays L. for the management of marble effluent contaminated soil under citric acid amendment; morpho-physiological and biochemical response. Chemosphere, 2020, 240, 124930.	8.2	31
212	nCOV-19 peptides mass fingerprinting identification, binding, and blocking of inhibitors flavonoids and anthraquinone of <i>Moringa oleifera</i> and hydroxychloroquine. Journal of Biomolecular Structure and Dynamics, 2021, 39, 4089-4099.	3.5	31
213	Abscisic acid signaling reduced transpiration flow, regulated Na<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1026" altimg="si125.svg"><mml:msup><mml:mrow /><mml:mrow><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math> ion homeostasis and antioxidant enzyme activities to induce salinity tolerance in wheat (Triticum aestivum L.) seedlings. Environmental Technology and Innovation, 2021, 24, 101808.	6.1	31
214	Application of natural plant extracts improves the tolerance against combined terminal heat and drought stresses in bread wheat. Journal of Agronomy and Crop Science, 2017, 203, 528-538.	3.5	30
215	Microwave irradiation and citric acid assisted seed germination and phytoextraction of nickel (Ni) by Brassica napus L.: morpho-physiological and biochemical alterations under Ni stress. Environmental Science and Pollution Research, 2017, 24, 21050-21064.	5.3	30
216	Effects of biochar on growth, photosynthesis, and chromium (Cr) uptake in Brassica rapa L. under Cr stress. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	30

#	Article	IF	Citations
217	Characterization and chromium biosorption potential of extruded polymeric substances from Synechococcus mundulus induced by acute dose of gamma irradiation. Environmental Science and Pollution Research, 2019, 26, 31998-32012.	5.3	30
218	Effects of biochar and foliar application of selenium on the uptake and subcellular distribution of chromium in Ipomoea aquatica in chromium-polluted soils. Ecotoxicology and Environmental Safety, 2020, 206, 111184.	6.0	30
219	Combined use of zinc nanoparticles and co-composted biochar enhanced wheat growth and decreased Cd concentration in grains under Cd and drought stress: A field study. Environmental Technology and Innovation, 2021, 23, 101518.	6.1	29
220	Biochar mitigates arsenic-induced human health risks and phytotoxicity in quinoa under saline conditions by modulating ionic and oxidative stress responses. Environmental Pollution, 2021, 287, 117348.	7.5	29
221	Bacterial Augmented Floating Treatment Wetlands for Efficient Treatment of Synthetic Textile Dye Wastewater. Sustainability, 2020, 12, 3731.	3.2	29
222	Green synthesis and characterization of silver nanoparticles from Acacia nilotica and their anticancer, antidiabetic and antioxidant efficacy. Environmental Pollution, 2022, 304, 119249.	7.5	29
223	Effect of biochar and quicklime on growth of wheat and physicochemical properties of Ultisols. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	28
224	Nanoscale Morphology Control of Na-Rich Prussian Blue Cathode Materials for Sodium Ion Batteries with Good Thermal Stability. ACS Applied Energy Materials, 2019, 2, 8570-8579.	5.1	28
225	Role of Promising Secondary Metabolites to Confer Resistance Against Environmental Stresses in Crop Plants: Current Scenario and Future Perspectives. Frontiers in Plant Science, 2022, 13, .	3.6	28
226	Tea waste as a potential biowaste for removal of hexavalent chromium from wastewater: equilibrium and kinetic studies. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	27
227	Composting of municipal solid waste by different methods improved the growth of vegetables and reduced the health risks of cadmium and lead. Environmental Science and Pollution Research, 2019, 26, 5463-5474.	5.3	27
228	Citric acid enhanced phytoextraction of nickel (Ni) and alleviate Mentha piperita (L.) from Ni-induced physiological and biochemical damages. Environmental Science and Pollution Research, 2020, 27, 27010-27022.	5.3	27
229	Effective sequestration of Cr (VI) from wastewater using nanocomposite of ZnO with cotton stalks biochar: modeling, kinetics, and reusability. Environmental Science and Pollution Research, 2020, 27, 33821-33834.	5.3	27
230	Dopamine Alleviates Hydrocarbon Stress in Brassica oleracea through Modulation of Physio-Biochemical Attributes and Antioxidant Defense Systems. Chemosphere, 2021, 270, 128633.	8.2	27
231	Green molybdenum nanoparticles-mediated bio-stimulation of Bacillus sp. strain ZH16 improved the wheat growth by managing in planta nutrients supply, ionic homeostasis and arsenic accumulation. Journal of Hazardous Materials, 2022, 423, 127024.	12.4	27
232	Zinc fortification and alleviation of cadmium stress by application of lysine chelated zinc on different varieties of wheat and rice in cadmium stressed soil. Chemosphere, 2022, 295, 133829.	8.2	27
233	Menadione sodium bisulfite alleviated chromium effects on wheat by regulating oxidative defense, chromium speciation, and ion homeostasis. Environmental Science and Pollution Research, 2021, 28, 36205-36225.	5.3	26
234	Role of Bioremediation Agents (Bacteria, Fungi, and Algae) in Alleviating Heavy Metal Toxicity. , 2017, , 517-537.		25

#	Article	IF	Citations
235	Efficiency of biogas slurry and Burkholderia phytofirmans PsJN to improve growth, physiology, and antioxidant activity of Brassica napus L. in chromium-contaminated soil. Environmental Science and Pollution Research, 2018, 25, 6387-6397.	5.3	25
236	Damage potential of Tribolium castaneum (Herbst) (Coleoptera: Tenebrionidae) on wheat grains stored in hermetic and non-hermetic storage bags. International Journal of Tropical Insect Science, 2020, 40, 27-37.	1.0	25
237	Î±-Tocopherol Foliar Spray and Translocation Mediates Growth, Photosynthetic Pigments, Nutrient Uptake, and Oxidative Defense in Maize (Zea mays L.) under Drought Stress. Agronomy, 2020, 10, 1235.	3.0	25
238	Enhanced performance of Bacillus megaterium OSR-3 in combination with putrescine ammeliorated hydrocarbon stress in Nicotiana tabacum. International Journal of Phytoremediation, 2021, 23, 119-129.	3.1	25
239	Cellulose extraction of Alstonia scholaris: A comparative study on efficiency of different bleaching reagents for its isolation and characterization. International Journal of Biological Macromolecules, 2021, 191, 964-972.	7.5	25
240	Contrasting Effects of Organic and Inorganic Amendments on Reducing Lead Toxicity in Wheat. Bulletin of Environmental Contamination and Toxicology, 2017, 99, 642-647.	2.7	24
241	Effect of zincâ€biofortified seeds on grain yield of wheat, rice, and common bean grown in six countries. Journal of Plant Nutrition and Soil Science, 2019, 182, 791-804.	1.9	24
242	Potential toxicity of trace elements and nanomaterials to Chinese cabbage in arsenic- and lead-contaminated soil amended with biochars. Environmental Geochemistry and Health, 2019, 41, 1777-1791.	3.4	24
243	Salicylic Acid Improves Boron Toxicity Tolerance by Modulating the Physio-Biochemical Characteristics of Maize (Zea mays L.) at an Early Growth Stage. Agronomy, 2020, 10, 2013.	3.0	24
244	Effect of gibberellic acid and titanium dioxide nanoparticles on growth, antioxidant defense system and mineral nutrient uptake in wheat. Ecotoxicology and Environmental Safety, 2021, 221, 112436.	6.0	24
245	Multi-element uptake and growth responses of Rice (Oryza sativa L.) to TiO2 nanoparticles applied in different textured soils. Ecotoxicology and Environmental Safety, 2021, 215, 112149.	6.0	23
246	5-Aminolevulinic Acid-Induced Heavy Metal Stress Tolerance and Underlying Mechanisms in Plants. Journal of Plant Growth Regulation, 2018, 37, 1423-1436.	5.1	22
247	Fulvic Acid Prevents Chromium-induced Morphological, Photosynthetic, and Oxidative Alterations in Wheat Irrigated with Tannery Waste Water. Journal of Plant Growth Regulation, 2018, 37, 1357-1367.	5.1	22
248	Effect of gibberellic acid on growth, biomass, and antioxidant defense system of wheat (Triticum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2 2020, 27, 33809-33820.	5.3	22
249	Efficacy of fenugreek plant for ascorbic acid assisted phytoextraction of copper (Cu); A detailed study of Cu induced morpho-physiological and biochemical alterations. Chemosphere, 2020, 251, 126424.	8.2	22
250	Synthesis of a novel organosoluble, biocompatible, and antibacterial chitosan derivative for biomedical applications. Journal of Applied Polymer Science, 2018, 135, 45905.	2.6	21
251	The Ameliorative Role of 5-Aminolevulinic Acid (ALA) Under Cr Stress in Two Maize Cultivars Showing Differential Sensitivity to Cr Stress Tolerance. Journal of Plant Growth Regulation, 2019, 38, 788-798.	5.1	21
252	Characterization of mycotoxins from entomopathogenic fungi (Cordyceps fumosorosea) and their toxic effects to the development of asian citrus psyllid reared on healthy and diseased citrus plants. Toxicon, 2020, 188, 39-47.	1.6	21

#	Article	IF	Citations
253	Assessment of health and ecological risks of heavy metal contamination: a case study of agricultural soils in Thall, Dir-Kohistan. Environmental Monitoring and Assessment, 2020, 192, 786.	2.7	21
254	Physicochemical and Bacteriological Characterization of Industrial Wastewater Being Discharged to Surface Water Bodies: Significant Threat to Environmental Pollution and Human Health. Journal of Chemistry, 2020, 2020, 1-10.	1.9	21
255	Phosphate-lanthanum coated sewage sludge biochar improved the soil properties and growth of ryegrass in an alkaline soil. Ecotoxicology and Environmental Safety, 2021, 216, 112173.	6.0	21
256	Biochar composite with microbes enhanced arsenic biosorption and phytoextraction by Typha latifolia in hybrid vertical subsurface flow constructed wetland. Environmental Pollution, 2021, 291, 118269.	7.5	21
257	Silicon Enhances Morphoâ€“Physioâ€“Biochemical Responses in Arsenic Stressed Spinach (Spinacia) Tj ETQq1 1 0.784314 rgBT /Over	5.1	21
258	Effect of polar aprotic solvents on hydroxyethyl cellulose-based gel polymer electrolyte. Ionics, 2018, 24, 1955-1964.	2.4	20
259	Biochar for sustainable soil and environment: a comprehensive review. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	20
260	Effects of cultivars, water regimes, and growth stages on cadmium accumulation in rice with different radial oxygen loss. Plant and Soil, 2020, 453, 529-543.	3.7	20
261	Integrated Nutrient Management Enhances Soil Quality and Crop Productivity in Maize-Based Cropping System. Sustainability, 2020, 12, 10214.	3.2	20
262	Straw-based biochar mediated potassium availability and increased growth and yield of cotton (Gossypium hirsutum L.). Journal of Saudi Chemical Society, 2020, 24, 963-973.	5.2	20
263	Citric Acid Assisted Phytoremediation of Chromium through Sunflower Plants Irrigated with Tannery Wastewater. Plants, 2020, 9, 380.	3.5	20
264	Combined Citric Acid and Glutathione Augments Lead (Pb) Stress Tolerance and Phytoremediation of Castorbean through Antioxidant Machinery and Pb Uptake. Sustainability, 2021, 13, 4073.	3.2	20
265	Host-pathogen interaction between Asian citrus psyllid and entomopathogenic fungus (Cordyceps) Tj ETQq1 1 0.784314 rgBT /Overlo population of the host. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2021, 248, 109112.	2.6	20
266	Effect of alkaline and chemically engineered biochar on soil properties and phosphorus bioavailability in maize. Chemosphere, 2021, 266, 128980.	8.2	19
267	Effect of biochar and compost on cadmium bioavailability and its uptake by wheatâ€“rice cropping system irrigated with untreated sewage water: a field study. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	19
268	Salinity mitigates cadmium-induced phytotoxicity in quinoa (Chenopodium quinoa Willd.) by limiting the Cd uptake and improved responses to oxidative stress: implications for phytoremediation. Environmental Geochemistry and Health, 2023, 45, 171-185.	3.4	19
269	Boron application mitigates Cd toxicity in leaves of rice by subcellular distribution, cell wall adsorption and antioxidant system. Ecotoxicology and Environmental Safety, 2021, 222, 112540.	6.0	19
270	Gaseous pollutants from brick kiln industry decreased the growth, photosynthesis, and yield of wheat (Triticum aestivum L.). Environmental Monitoring and Assessment, 2016, 188, 267.	2.7	18

#	Article	IF	Citations
271	Spatio-temporal variations of shallow and deep well groundwater nitrate concentrations along the Indus River floodplain aquifer in Pakistan. Environmental Pollution, 2019, 253, 384-392.	7.5	18
272	Effect of the entomopathogenic fungus, Beauveria bassiana, combined with diatomaceous earth on the red flour beetle, Tribolium castaneum (Herbst) (Tenebrionidae: Coleoptera). Egyptian Journal of Biological Pest Control, 2019, 29, .	1.8	18
273	Unraveling the effects of cadmium on growth, physiology and associated health risks of leafy vegetables. Revista Brasileira De Botanica, 2020, 43, 799-811.	1.3	18
274	Comparative evaluation of wheat straw and press mud biochars for Cr(VI) elimination from contaminated aqueous solution. Environmental Technology and Innovation, 2020, 19, 101017.	6.1	18
275	Beneficial role ofAzollasp. in paddy soils and their use as bioremediators in polluted aqueous environments: implications and future perspectives. Archives of Agronomy and Soil Science, 2021, 67, 1242-1255.	2.6	18
276	Synthesis and Characterization of Na-Zeolites from Textile Waste Ash and Its Application for Removal of Lead (Pb) from Wastewater. International Journal of Environmental Research and Public Health, 2021, 18, 3373.	2.6	18
277	Foliar application of silica sol alleviates boron toxicity in rice (Oryza sativa) seedlings. Journal of Hazardous Materials, 2022, 423, 127175.	12.4	18
278	Surface water quality assessment of Skardu springs using Water Quality Index. Environmental Science and Pollution Research, 2021, 28, 20537-20548.	5.3	18
279	Kinetic model studies of controlled nutrient release and swelling behavior of combo hydrogel using Acer platanoides cellulose. Journal of the Taiwan Institute of Chemical Engineers, 2022, 131, 104137.	5.3	18
280	Electroactive polymeric nanocomposite BC-g-(Fe₃O₄/GO) materials for bone tissue engineering: inÂvitro evaluations. Journal of Biomaterials Science, Polymer Edition, 2022, 33, 1349-1368.	3.5	18
281	Remediating Cadmium-Contaminated Soils by Growing Grain Crops Using Inorganic Amendments. , 2015, , 367-396.		17
282	Evaluation of the Impact of Water Management Technologies on Water Savings in the Lower Chenab Canal Command Area, Indus River Basin. Water (Switzerland), 2018, 10, 681.	2.7	17
283	Opportunities and challenges in the remediation of metal-contaminated soils by using tobacco (Nicotiana tabacum L.): a critical review. Environmental Science and Pollution Research, 2019, 26, 18053-18070.	5.3	17
284	Biomass for renewable energy production in Pakistan: current state and prospects. Arabian Journal of Geosciences, 2020, 13, 1.	1.3	17
285	Low Doses of Cuscuta reflexa Extract Act as Natural Biostimulants to Improve the Germination Vigor, Growth, and Grain Yield of Wheat Grown under Water Stress: Photosynthetic Pigments, Antioxidative Defense Mechanisms, and Nutrient Acquisition. Biomolecules, 2020, 10, 1212.	4.0	17
286	Residual impact of biochar on cadmium uptake by rice (Oryza sativa L.) grown in Cd-contaminated soil. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	16
287	Investigation into arsenic retention in arid contaminated soils with biochar application. Arabian Journal of Geosciences, 2019, 12, 1.	1.3	16
288	Nanocomposites of sedimentary material with ZnO and magnetite for the effective sequestration of arsenic from aqueous systems: Reusability, modeling and kinetics. Environmental Technology and Innovation, 2021, 21, 101298.	6.1	16

#	Article	IF	Citations
289	Foliar spray of silicon nanoparticles improved the growth and minimized cadmium (Cd) in wheat under combined Cd and water-limited stress. Environmental Science and Pollution Research, 2022, 29, 77321-77332.	5.3	16
290	Effects of cropping system and fertilization regime on soil phosphorous are mediated by rhizosphere-microbial processes in a semi-arid agroecosystem. Journal of Environmental Management, 2020, 271, 111033.	7.8	15
291	Relief Role of Lysine Chelated Zinc (Zn) on 6-Week-Old Maize Plants under Tannery Wastewater Irrigation Stress. International Journal of Environmental Research and Public Health, 2020, 17, 5161.	2.6	15
292	Influence of Metal-Resistant Staphylococcus aureus Strain K1 on the Alleviation of Chromium Stress in Wheat. Agronomy, 2020, 10, 1354.	3.0	15
293	N-Fertilizer (Urea) Enhances the Phytoextraction of Cadmium through Solanum nigrum L.. International Journal of Environmental Research and Public Health, 2020, 17, 3850.	2.6	15
294	Lead (Pb)-resistant bacteria inhibit Pb accumulation in dill (Anethum graveolens L.) by improving biochemical, physiological, and antioxidant enzyme response of plants. Environmental Science and Pollution Research, 2021, 28, 5704-5713.	5.3	15
295	Recent progress on the heavy metals ameliorating potential of engineered nanomaterials in rice paddy: a comprehensive outlook on global food safety with nanotoxicitiy issues. Critical Reviews in Food Science and Nutrition, 2023, 63, 2672-2686.	10.3	15
296	Restoration of Degraded Soil for Sustainable Agriculture. , 2020, , 31-81.		15
297	Genome-Wide Expression and Physiological Profiling of Pearl Millet Genotype Reveal the Biological Pathways and Various Gene Clusters Underlying Salt Resistance. Frontiers in Plant Science, 2022, 13, 849618.	3.6	15
298	Combined effects of green manure and zinc oxide nanoparticles on cadmium uptake by wheat (Triticum) Tj ETQq0 0 0 rgBT /Overlock 10	8.2	15
299	Effect of different seed priming agents on chromium accumulation, oxidative defense, glyoxalase system and mineral nutrition in canola (Brassica napus L.) cultivars. Environmental Pollution, 2022, 309, 119769.	7.5	15
300	A field study investigating the potential use of phosphorus combined with organic amendments on cadmium accumulation by wheat and subsequent rice. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	14
301	Glutamic Acid-Assisted Phytomanagement of Chromium Contaminated Soil by Sunflower (Helianthus) Tj ETQq1 1 0.784314 rgBT /Ov 1297.	3.6	14
302	S-Fertilizer (Elemental Sulfur) Improves the Phytoextraction of Cadmium through Solanum nigrum L.. International Journal of Environmental Research and Public Health, 2022, 19, 1655.	2.6	14
303	Morphological and Physiological Responses of Plants to Cadmium Toxicity. , 2019, , 47-72.		13
304	Assessment of flood-induced changes in soil heavy metal and nutrient status in Rajanpur, Pakistan. Environmental Monitoring and Assessment, 2019, 191, 234.	2.7	13
305	Cellulose supported magnetic nanohybrids: Synthesis, physicomagnetic properties and biomedical applications-A review. Carbohydrate Polymers, 2021, 267, 118136.	10.2	13
306	Biological synthesis, characterization of three metal-based nanoparticles and their anticancer activities against hepatocellular carcinoma HepG2 cells. Ecotoxicology and Environmental Safety, 2021, 223, 112575.	6.0	13

#	Article	IF	Citations
307	A new technique for reducing accumulation, transport, and toxicity of heavy metals in wheat (Triticum aestivum L.) by bio-filtration of river wastewater. Chemosphere, 2022, 294, 133642.	8.2	13
308	Improved ionic conductivity in guar gum succinateâ€“based polymer electrolyte membrane. High Performance Polymers, 2018, 30, 993-1001.	1.8	12
309	Precipitation Variations under a Changing Climate from 1961â€“2015 in the Source Region of the Indus River. Water (Switzerland), 2019, 11, 1366.	2.7	12
310	Foliar Spray of Fe-Asp Confers Better Drought Tolerance in Sunflower as Compared with FeSO4: Yield Traits, Osmotic Adjustment, and Antioxidative Defense Mechanisms. Biomolecules, 2020, 10, 1217.	4.0	12
311	Effect of biochar and phosphate solubilizing bacteria on growth and phosphorus uptake by maize in an Aridisol. Arabian Journal of Geosciences, 2020, 13, 1.	1.3	12
312	Assessment of early physiological and biochemical responses in chia (Salvia hispanica L.) sprouts under salt stress. Acta Physiologiae Plantarum, 2021, 43, 1.	2.1	12
313	Recent advances in nanoparticles associated ecological harms and their biodegradation: Global environmental safety from nano-invaders. Journal of Environmental Chemical Engineering, 2021, 9, 106093.	6.7	12
314	Alleviation of Chlorpyrifos Toxicity in Maize (Zea mays L.) by Reducing Its Uptake and Oxidative Stress in Response to Soil-Applied Compost and Biochar Amendments. Plants, 2021, 10, 2170.	3.5	12
315	Green and eco-friendly synthesis of TiO₂ nanoparticles and their application for removal of cadmium from wastewater: reaction kinetics study. Zeitschrift Fur Physikalische Chemie, 2022, 236, 637-657.	2.8	12
316	Pre-breeding of lentil (Lens culinaris Medik.) for herbicide resistance through seed mutagenesis. PLoS ONE, 2017, 12, e0171846.	2.5	11
317	Sugarcane waste straw biochar and its effects on calcareous soil and agronomic traits of okra. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	11
318	Evaluation of the entomopathogenic fungi as a non-traditional control of the rice leaf roller, Cnaphalocrocis medinalis (Guenee) (Lepidoptera: Pyralidae) under controlled conditions. Egyptian Journal of Biological Pest Control, 2019, 29, .	1.8	11
319	Solanum nigrum L.: A Novel Hyperaccumulator for the Phyto-Management of Cadmium Contaminated Soils. , 2019, , 451-477.		11
320	Novel chitosan derivative based composite scaffolds with enhanced angiogenesis; potential candidates for healing chronic non-healing wounds. Journal of Materials Science: Materials in Medicine, 2019, 30, 72.	3.6	11
321	Efficacy of Entomopathogenic Fungi Against Brown Planthopper Nilaparvata Lugens (StÃ¥l) (Homoptera: Delphacidae) Under Controlled Conditions. Gesunde Pflanzen, 2020, 72, 101-112.	3.0	11
322	Menadione sodium bisulphite regulates physiological and biochemical responses to lessen salinity effects on wheat (Triticum aestivum L.). Physiology and Molecular Biology of Plants, 2021, 27, 1135-1152.	3.1	11
323	Influence of calcium and magnesium elimination on plant biomass and secondary metabolites of Stevia rebaudiana Bertoni. Biotechnology and Applied Biochemistry, 2022, 69, 2008-2016.	3.1	11
324	Microbe-citric acid assisted phytoremediation of chromium by castor bean (Ricinus communis L.). Chemosphere, 2022, 296, 134065.	8.2	11

#	Article	IF	Citations
325	Potential of nanocomposites of zero valent copper and magnetite with Eleocharis dulcis biochar for packed column and batch scale removal of Congo red dye. Environmental Pollution, 2022, 305, 119291.	7.5	11
326	Phytoremediation of contaminated industrial wastewater by duckweed (Lemna minor L.): Growth and physiological response under acetic acid application. Chemosphere, 2022, 304, 135262.	8.2	11
327	Different nitrogen and biochar sourcesâ€™ application in an alkaline calcareous soil improved the maize yield and soil nitrogen retention. Arabian Journal of Geosciences, 2019, 12, 1.	1.3	10
328	Cerium oxide nanoparticles: Advances in synthesis, prospects and application in agro-ecosystem. Comprehensive Analytical Chemistry, 2019, 87, 209-250.	1.3	10
329	Recent Advances in Arsenic Accumulation in Rice. , 2019, , 385-398.		10
330	Fertigation of Ajwain (Trachyspermum ammi L.) with Fe-Glutamate Confers Better Plant Performance and Drought Tolerance in Comparison with FeSO4. Sustainability, 2020, 12, 7119.	3.2	10
331	Chitosanâ€Based Smart Polymeric Hydrogels and Their Prospective Applications in Biomedicine. Starch/Staerke, 2024, 76, 2100150.	2.1	10
332	Ecophysiological response of early stage Albizia lebbeck to cadmium toxicity and biochar addition. Arabian Journal of Geosciences, 2019, 12, 1.	1.3	9
333	Biochar impact on microbial population and elemental composition of red soil. Arabian Journal of Geosciences, 2020, 13, 1.	1.3	9
334	Cephradine drug release using electrospun chitosan nanofibers incorporated with halloysite nanoclay. Zeitschrift Fur Physikalische Chemie, 2022, 236, 227-238.	2.8	9
335	Nickel Toxicity Interferes with NO3â¯/NH4+ Uptake and Nitrogen Metabolic Enzyme Activity in Rice (Oryza sativa L.). Plants, 2022, 11, 1401.	3.5	9
336	Cadmium immobilization in the soil and accumulation by spinach (Spinacia oleracea) depend on biochar types under controlled and field conditions. Arabian Journal of Geosciences, 2019, 12, 1.	1.3	8
337	Comparative effect of mesquite biochar, farmyard manure, and chemical fertilizers on soil fertility and growth of onion (Allium cepa L.). Arabian Journal of Geosciences, 2019, 12, 1.	1.3	8
338	Organic Manures for Cadmium Tolerance and Remediation. , 2019, , 19-67.		8
339	Alleviating lead-induced phytotoxicity and enhancing the phytoremediation of castor bean (<i>Ricinus) Tj ETQq1 1 0.784314 rgBT /Ov antioxidants, gas exchange and lead uptake. International Journal of Phytoremediation, 2022, 24, 933-944.	3.1	8
340	Effects of ambient gaseous pollutants on photosynthesis, growth, yield and grain quality of selected crops grown at different sites varying in pollution levels. Archives of Agronomy and Soil Science, 2016, 62, 1195-1207.	2.6	7
341	Phosphate fertilizer premixing with farmyard manure enhances phosphorus availability in calcareous soil for higher wheat productivity. Environmental Science and Pollution Research, 2019, 26, 32276-32284.	5.3	7
342	Foliar- and soil-applied salicylic acid and bagasse compost addition to soil reduced deleterious effects of salinity on wheat. Arabian Journal of Geosciences, 2019, 12, 1.	1.3	7

#	Article	IF	Citations
343	Seasonal variations of soil phosphorus and associated fertility indicators in wastewater-irrigated urban aridisol. Chemosphere, 2020, 239, 124725.	8.2	7
344	Effect of biochars, biogenic, and inorganic amendments on dissolution and kinetic release of phytoavailable silicon in texturally different soils under submerged conditions. Arabian Journal of Geosciences, 2020, 13, 1.	1.3	7
345	Effects of biochar, farm manure, and pressmud on mineral nutrients and cadmium availability to wheat (Triticum aestivum L.) in Cdâ€contaminated soil. Physiologia Plantarum, 2021, 173, 191-200.	5.2	7
346	Efficacy of Lemna minor and Typha latifolia for the treatment of textile industry wastewater in a constructed wetland under citric acid amendment: A lab scale study. Chemosphere, 2021, 283, 131107.	8.2	7
347	Effect of coal and wood ash on phosphorus immobilization in different textured soils. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	6
348	Role of Mineral Nutrients in Plant Growth Under Extreme Temperatures. , 2018, , 499-524.		6
349	Biochar Is a Potential Source of Silicon Fertilizer. , 2019, , 225-238.		6
350	Are Clay Minerals a Significant Source of Si for Crops? A Comparison of Amorphous Silica and the Roles of the Mineral Type and pH. Silicon, 2021, 13, 3611-3618.	3.3	6
351	Citric acid assisted phytoremediation of arsenic through Brassica napus L.. Arsenic in the Environment Proceedings, 2016, , 599-600.	0.0	6
352	Phosphorus Fertilizers Enhance the Phytoextraction of Cadmium through Solanum nigrum L.. Plants, 2022, 11, 236.	3.5	6
353	The comparison of interstitial relative humidity and temperatures of hermetic and polypropylene bag for wheat grain storage under different agro-climatic conditions of rice-wheat ecosystem of Pakistan: Effect on seed quality and protection against insect pests. Journal of Stored Products Research, 2022, 96, 101936.	2.6	6
354	Combined Application of Citric Acid and Cr Resistant Microbes Improved Castor Bean Growth and Photosynthesis while It Alleviated Cr Toxicity by Reducing Cr+6 to Cr3+. Microorganisms, 2021, 9, 2499.	3.6	6
355	Harzianopyridone Supplementation Reduced Chromium Uptake and Enhanced Activity of Antioxidant Enzymes in Vigna radiata Seedlings Exposed to Chromium Toxicity. Frontiers in Plant Science, 0, 13, .	3.6	6
356	Conductivity or rheology? Tradeoff for competing properties in the fabrication of a gel polymer electrolyte based on chitosan-barbiturate derivative. Ionics, 2018, 24, 3015-3025.	2.4	5
357	Applicability of upflow anaerobic sludge blanket (UASB) reactor for typical sewage of a small community: its biomass reactivation after shutdown. International Journal of Environmental Science and Technology, 2018, 15, 1745-1756.	3.5	5
358	Cadmium (Cd) concentration in wheat (Triticum aestivum) grown in Cd-spiked soil varies with the doses and biochar feedstock. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	5
359	Assessment of trace element and macronutrient accumulation capacity of two native plant species in three different Egyptian mine areas for remediation of contaminated soils. Ecological Indicators, 2019, 106, 105463.	6.3	5
360	Inorganic Amendments for the Remediation of Cadmium-Contaminated Soils. , 2019, , 113-141.		5

#	Article	IF	Citations
361	Green remediation of salineâ€“sodic Pb-factored soil by growing salt-tolerant rice cultivar along with soil applied inorganic amendments. Paddy and Water Environment, 2020, 18, 637-649.	1.8	5
362	Effect of three different types of biochars on eco-physiological response of important agroforestry tree species under salt stress. International Journal of Phytoremediation, 2021, 23, 1412-1422.	3.1	5
363	Design and Synthesis of Novel Inhibitor against Ser121 and Val122 Mutations in P53 Cancer Gene. Advances in Pharmacology and Pharmacy, 2019, 7, 63-70.	0.2	5
364	Growth and yield response of wheat (Triticum aestivum L.) to tillage and row spacing in maize-wheat cropping system in semi-arid region. Eurasian Journal of Soil Science, 2016, 5, 53.	0.6	5
365	Determining the appropriate level of farmyard manure biochar application in saline soils for three selected farm tree species. PLoS ONE, 2022, 17, e0265005.	2.5	5
366	Recent Progress of NanotoxicologyÂinÂPlants. , 2018, , 143-174.		4
367	Increased Foliar Activity of Isoproturon+Tribenuron and Pyroxsulam Against Little Seed Canary Grass and Field Bindweed by Proper Adjuvant Selection in Wheat. Planta Daninha, 2018, 36, .	0.5	4
368	Surface characterizations of membranes and electrospun chitosan derivatives by optical speckle analysis. Surface and Interface Analysis, 2020, 52, 132-139.	1.8	4
369	Physiological and Biochemical Response of Alternanthera bettzickiana (Regel) G. Nicholson under Acetic Acid Assisted Phytoextraction of Lead. Plants, 2020, 9, 1084.	3.5	4
370	Alteration of plant physiology by the application of biochar for remediation of organic pollutants. , 2021, , 475-492.		4
371	Synthesis, characterization, hydrolytic degradation, mathematical modeling and antibacterial activity of poly[bis((methoxyethoxy)ethoxy)phosphazene] (MEEP). Polymer Bulletin, 2021, 78, 6059-6072.	3.3	4
372	Physiological and biochemical characterization of Kalongi (Nigella sativa) against arsenic stress: Implications for human health risk assessment. Environmental Pollution, 2022, 298, 118829.	7.5	4
373	The Sewage Sludge Biochar and Its Composts Influence the Phosphate Sorption in an Alkalineâ€“Calcareous Soil. Sustainability, 2021, 13, 1779.	3.2	3
374	Biogenic and characterizations of new silver nanoparticles stabilized with indole acetic acid derived from Azospirillum brasilense MMGH-SADAT1, their bioactivity, and histopathological assessment in rats. Ecotoxicology and Environmental Safety, 2021, 222, 112521.	6.0	3
375	In Situ Phytoremediation of Metals. Concepts and Strategies in Plant Sciences, 2020, , 103-121.	0.5	3
376	Chapter 2 Role of Silicon under Nutrient Deficiency. , 2016, , 29-46.		3
377	Transformation of Oil Palm Waste-Derived Cellulose into Solid Polymer Electrolytes: Investigating the Crucial Role of Plasticizers. Polymers, 2021, 13, 3685.	4.5	3
378	Potential of Fish Scale Biochar Nanocomposite with ZnO for Effective Sequestration of Cr (VI) from Water: Modeling and Kinetics. International Journal of Environmental Research, 2022, 16, .	2.3	3

#	Article	IF	Citations
379	Metals Phytoextraction by Brassica Species. , 2021, , 361-384.		2
380	Do neonicotinoids better than pyrethroids for Coccinella septempunctata L. (Coleoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td International Journal of Tropical Insect Science, 2021, 41, 2811-2819.	1.0	2
381	Heavy Metals Occurrence, Seasonal Variation and Enrichment in Urban Soils Augmented with Industrial Waste. Polish Journal of Environmental Studies, 2021, 30, 4871-4886.	1.2	2
382	Remediation of organic pollutants by Brassica species. , 2021, , 689-700.		2
383	Effect of Nanoparticles on Plant Growth and Physiology and on Soil Microbes. Nanotechnology in the Life Sciences, 2020, , 65-85.	0.6	2
384	Rice Production, Augmentation, Escalation, and Yield Under Water Stress. , 2020, , 117-128.		2
385	Nondetrimental impact of two concomitant entomopathogenic fungi on life history parameters of a generalist predator, Coccinella septempunctata (Coleoptera: Coccinellidae). Scientific Reports, 2021, 11, 20699.	3.3	2
386	Rice straw biochar in combination with farmyard manure mitigates bromoxynil toxicity in wheat (Triticum aestivum L.). Chemosphere, 2022, 295, 133854.	8.2	2
387	Synthesis of biochar from sugarcane filter-cake and its impacts on physiological performance of lettuce (Lettuce sativa) grown on cadmium contaminated soil. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	1
388	Sugar-Catalyzed Synthesis of Triarylimidazolesâ€"An Exemplary Model of Sweet Chemistry. Russian Journal of Organic Chemistry, 2020, 56, 509-513.	0.8	1
389	Heavy Metals Induced Physiological and Biochemical Changes in Fenugreek (Trigonella) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50		1
390	Existence of the solution to second order differential equation through fixed point results for nonlinear F-contractions involving w0-distance. Filomat, 2020, 34, 4079-4094.	0.5	1
391	Environmental and Health Effects of Heavy Metals and Their Treatment Methods. Emerging Contaminants and Associated Treatment Technologies, 2022, , 143-175.	0.7	1
392	Plant Nutrients and Cadmium Stress Tolerance. , 2019, , 319-333.		0
393	Dynamics of AB-DTPA-extractable Zn in high and low limed calcareous soils amended with biochar and farmyard and poultry manures. Arabian Journal of Geosciences, 2020, 13, 1.	1.3	0
394	Heavy Metals-Induced Morphophysiological and Biochemical Changes in Mentha piperita L.. , 2021, , 223-237.		0