

Shafaqat Ali

List of Publications by Year in descending order

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Version: 2024-02-01

523
papers

33,452
citations

3149

92
h-index

7718

150
g-index

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. <i>Environmental Pollution</i> , 2011, 159, 84-91.	3.7	970
2	Mechanisms of silicon-mediated alleviation of heavy metal toxicity in plants: A review. <i>Ecotoxicology and Environmental Safety</i> , 2015, 119, 186-197.	2.9	641
3	Zinc and iron oxide nanoparticles improved the plant growth and reduced the oxidative stress and cadmium concentration in wheat. <i>Chemosphere</i> , 2019, 214, 269-277.	4.2	567
4	The effect of excess copper on growth and physiology of important food crops: a review. <i>Environmental Science and Pollution Research</i> , 2015, 22, 8148-8162.	2.7	539
5	Cadmium stress in rice: toxic effects, tolerance mechanisms, and management: a critical review. <i>Environmental Science and Pollution Research</i> , 2016, 23, 17859-17879.	2.7	529
6	Cadmium minimization in wheat: A critical review. <i>Ecotoxicology and Environmental Safety</i> , 2016, 130, 43-53.	2.9	436
7	Effect of metal and metal oxide nanoparticles on growth and physiology of globally important food crops: A critical review. <i>Journal of Hazardous Materials</i> , 2017, 322, 2-16.	6.5	408
8	Interactive effects of drought and heat stresses on morpho-physiological attributes, yield, nutrient uptake and oxidative status in maize hybrids. <i>Scientific Reports</i> , 2019, 9, 3890.	1.6	370
9	Mechanisms of biochar-mediated alleviation of toxicity of trace elements in plants: a critical review. <i>Environmental Science and Pollution Research</i> , 2016, 23, 2230-2248.	2.7	366
10	Effect of biochar on cadmium bioavailability and uptake in wheat (<i>Triticum aestivum</i> L.) grown in a soil with aged contamination. <i>Ecotoxicology and Environmental Safety</i> , 2017, 140, 37-47.	2.9	360
11	A critical review on effects, tolerance mechanisms and management of cadmium in vegetables. <i>Chemosphere</i> , 2017, 182, 90-105.	4.2	352
12	Biochar soil amendment on alleviation of drought and salt stress in plants: a critical review. <i>Environmental Science and Pollution Research</i> , 2017, 24, 12700-12712.	2.7	352
13	Mechanisms of silicon-mediated alleviation of drought and salt stress in plants: a review. <i>Environmental Science and Pollution Research</i> , 2015, 22, 15416-15431.	2.7	322
14	Physiological and biochemical changes during drought and recovery periods at tillering and jointing stages in wheat (<i>Triticum aestivum</i> L.). <i>Scientific Reports</i> , 2018, 8, 4615.	1.6	317
15	Chromium-induced physio-chemical and ultrastructural changes in four cultivars of <i>Brassica napus</i> L.. <i>Chemosphere</i> , 2015, 120, 154-164.	4.2	305
16	Zinc oxide nanoparticles alter the wheat physiological response and reduce the cadmium uptake by plants. <i>Environmental Pollution</i> , 2018, 242, 1518-1526.	3.7	304
17	Citric acid assisted phytoremediation of cadmium by <i>Brassica napus</i> L. <i>Ecotoxicology and Environmental Safety</i> , 2014, 106, 164-172.	2.9	302
18	Alleviation of cadmium toxicity by silicon is related to elevated photosynthesis, antioxidant enzymes; suppressed cadmium uptake and oxidative stress in cotton. <i>Ecotoxicology and Environmental Safety</i> , 2013, 96, 242-249.	2.9	301

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19	Cadmium phytoremediation potential of Brassica crop species: A review. <i>Science of the Total Environment</i> , 2018, 631-632, 1175-1191.	3.9	275
20	Pesticides in Drinking Water—A Review. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 468.	1.2	271
21	Seed priming with silicon nanoparticles improved the biomass and yield while reduced the oxidative stress and cadmium concentration in wheat grains. <i>Environmental Science and Pollution Research</i> , 2019, 26, 7579-7588.	2.7	249
22	Drinking Water Quality Status and Contamination in Pakistan. <i>BioMed Research International</i> , 2017, 2017, 1-18.	0.9	245
23	Biochar application increased the growth and yield and reduced cadmium in drought stressed wheat grown in an aged contaminated soil. <i>Ecotoxicology and Environmental Safety</i> , 2018, 148, 825-833.	2.9	235
24	Insights into cadmium induced physiological and ultra-structural disorders in <i>Juncus effusus</i> L. and its remediation through exogenous citric acid. <i>Journal of Hazardous Materials</i> , 2011, 186, 565-574.	6.5	232
25	Alleviation of cadmium accumulation in maize (<i>Zea mays</i> L.) by foliar spray of zinc oxide nanoparticles and biochar to contaminated soil. <i>Environmental Pollution</i> , 2019, 248, 358-367.	3.7	230
26	Influence of <i>Pseudomonas aeruginosa</i> as PGPR on oxidative stress tolerance in wheat under Zn stress. <i>Ecotoxicology and Environmental Safety</i> , 2014, 104, 285-293.	2.9	223
27	EDTA enhanced plant growth, antioxidant defense system, and phytoextraction of copper by <i>Brassica napus</i> L.. <i>Environmental Science and Pollution Research</i> , 2015, 22, 1534-1544.	2.7	217
28	Application of Floating Aquatic Plants in Phytoremediation of Heavy Metals Polluted Water: A Review. <i>Sustainability</i> , 2020, 12, 1927.	1.6	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. <i>Environmental Science and Pollution Research</i> , 2015, 22, 16897-16906.	2.7	212
30	Phytoremediation of heavy metals by <i>Alternanthera bettzickiana</i> : Growth and physiological response. <i>Ecotoxicology and Environmental Safety</i> , 2016, 126, 138-146.	2.9	209
31	Plant growth promoting bacteria confer salt tolerance in <i>Vigna radiata</i> by up-regulating antioxidant defense and biological soil fertility. <i>Plant Growth Regulation</i> , 2016, 80, 23-36.	1.8	202
32	Silicon nanoparticles enhanced the growth and reduced the cadmium accumulation in grains of wheat (<i>Triticum aestivum</i> L.). <i>Plant Physiology and Biochemistry</i> , 2019, 140, 1-8.	2.8	195
33	The influence of silicon on barley growth, photosynthesis and ultra-structure under chromium stress. <i>Ecotoxicology and Environmental Safety</i> , 2013, 89, 66-72.	2.9	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. <i>Environmental Pollution</i> , 2017, 227, 560-568.	3.7	194
35	Citric acid assisted phytoremediation of copper by <i>Brassica napus</i> L.. <i>Ecotoxicology and Environmental Safety</i> , 2015, 120, 310-317.	2.9	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. <i>Plant Physiology and Biochemistry</i> , 2020, 156, 221-232.	2.8	190

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37	Synthesis, characterization and advanced sustainable applications of titanium dioxide nanoparticles: A review. <i>Ecotoxicology and Environmental Safety</i> , 2021, 212, 111978.	2.9	186
38	Simultaneous mitigation of cadmium and drought stress in wheat by soil application of iron nanoparticles. <i>Chemosphere</i> , 2020, 238, 124681.	4.2	183
39	Effect of biochar on alleviation of cadmium toxicity in wheat (<i>Triticum aestivum</i> L.) grown on Cd-contaminated saline soil. <i>Environmental Science and Pollution Research</i> , 2018, 25, 25668-25680.	2.7	180
40	Plant growth promoting rhizobacteria alleviates drought stress in potato in response to suppressive oxidative stress and antioxidant enzymes activities. <i>Scientific Reports</i> , 2020, 10, 16975.	1.6	179
41	Contrasting effects of biochar, compost and farm manure on alleviation of nickel toxicity in maize (<i>Zea mays</i> L.) in relation to plant growth, photosynthesis and metal uptake. <i>Ecotoxicology and Environmental Safety</i> , 2016, 133, 218-225.	2.9	178
42	Citric acid enhances the phytoextraction of chromium, plant growth, and photosynthesis by alleviating the oxidative damages in <i>Brassica napus</i> L.. <i>Environmental Science and Pollution Research</i> , 2015, 22, 11679-11689.	2.7	176
43	Cadmium stress in cotton seedlings: Physiological, photosynthesis and oxidative damages alleviated by glycinebetaine. <i>South African Journal of Botany</i> , 2016, 104, 61-68.	1.2	176
44	Effect of zinc-lysine on growth, yield and cadmium uptake in wheat (<i>Triticum aestivum</i> L.) and health risk assessment. <i>Chemosphere</i> , 2017, 187, 35-42.	4.2	175
45	Human health implications, risk assessment and remediation of As-contaminated water: A critical review. <i>Science of the Total Environment</i> , 2017, 601-602, 756-769.	3.9	170
46	Interactive effect of salinity and silver nanoparticles on photosynthetic and biochemical parameters of wheat. <i>Archives of Agronomy and Soil Science</i> , 2017, 63, 1736-1747.	1.3	166
47	Residual effects of biochar on growth, photosynthesis and cadmium uptake in rice (<i>Oryza sativa</i> L.) under Cd stress with different water conditions. <i>Journal of Environmental Management</i> , 2018, 206, 676-683.	3.8	166
48	Combined use of biochar and zinc oxide nanoparticle foliar spray improved the plant growth and decreased the cadmium accumulation in rice (<i>Oryza sativa</i> L.) plant. <i>Environmental Science and Pollution Research</i> , 2019, 26, 11288-11299.	2.7	166
49	5-Aminolevulinic Acid Ameliorates the Growth, Photosynthetic Gas Exchange Capacity, and Ultrastructural Changes Under Cadmium Stress in <i>Brassica napus</i> L.. <i>Journal of Plant Growth Regulation</i> , 2013, 32, 604-614.	2.8	165
50	Remediation of arsenic-contaminated water using agricultural wastes as biosorbents. <i>Critical Reviews in Environmental Science and Technology</i> , 2016, 46, 467-499.	6.6	161
51	Biomass production for bioenergy using marginal lands. <i>Sustainable Production and Consumption</i> , 2017, 9, 3-21.	5.7	161
52	Alleviation of chromium toxicity by glycinebetaine is related to elevated antioxidant enzymes and suppressed chromium uptake and oxidative stress in wheat (<i>Triticum aestivum</i> L.). <i>Environmental Science and Pollution Research</i> , 2015, 22, 10669-10678.	2.7	159
53	The Influence of Light Intensity and Leaf Movement on Photosynthesis Characteristics and Carbon Balance of Soybean. <i>Frontiers in Plant Science</i> , 2018, 9, 1952.	1.7	154
54	Foliar exposure of zinc oxide nanoparticles improved the growth of wheat (<i>Triticum aestivum</i> L.) and decreased cadmium concentration in grains under simultaneous Cd and water deficient stress. <i>Ecotoxicology and Environmental Safety</i> , 2021, 208, 111627.	2.9	154

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55	Citric acid improves lead (pb) phytoextraction in brassica napus L. by mitigating pb-induced morphological and biochemical damages. <i>Ecotoxicology and Environmental Safety</i> , 2014, 109, 38-47.	2.9	145
56	Fulvic acid mediates chromium (Cr) tolerance in wheat (<i>Triticum aestivum</i> L.) through lowering of Cr uptake and improved antioxidant defense system. <i>Environmental Science and Pollution Research</i> , 2015, 22, 10601-10609.	2.7	145
57	Responses of wheat (<i>Triticum aestivum</i>) plants grown in a Cd contaminated soil to the application of iron oxide nanoparticles. <i>Ecotoxicology and Environmental Safety</i> , 2019, 173, 156-164.	2.9	145
58	Critical green routing synthesis of silver NPs using jasmine flower extract for biological activities and photocatalytic degradation of methylene blue. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104877.	3.3	145
59	Effects of silicon nanoparticles on growth and physiology of wheat in cadmium contaminated soil under different soil moisture levels. <i>Environmental Science and Pollution Research</i> , 2020, 27, 4958-4968.	2.7	144
60	Transcriptional Factors Regulate Plant Stress Responses Through Mediating Secondary Metabolism. <i>Genes</i> , 2020, 11, 346.	1.0	138
61	Hydrogen sulfide alleviates chromium stress on cauliflower by restricting its uptake and enhancing antioxidative system. <i>Physiologia Plantarum</i> , 2020, 168, 289-300.	2.6	137
62	Influence of phosphorus on copper phytoextraction via modulating cellular organelles in two jute (<i>Corchorus capsularis</i> L.) varieties grown in a copper mining soil of Hubei Province, China. <i>Chemosphere</i> , 2020, 248, 126032.	4.2	137
63	Phosphorus amendment decreased cadmium (Cd) uptake and ameliorates chlorophyll contents, gas exchange attributes, antioxidants, and mineral nutrients in wheat (<i>Triticum aestivum</i> L.) under Cd stress. <i>Archives of Agronomy and Soil Science</i> , 2016, 62, 533-546.	1.3	135
64	5-Aminolevulinic acid mitigates the cadmium-induced changes in <i>Brassica napus</i> as revealed by the biochemical and ultra-structural evaluation of roots. <i>Ecotoxicology and Environmental Safety</i> , 2013, 92, 271-280.	2.9	134
65	Seed priming by sodium nitroprusside improves salt tolerance in wheat (<i>Triticum aestivum</i> L.) by enhancing physiological and biochemical parameters. <i>Plant Physiology and Biochemistry</i> , 2017, 119, 50-58.	2.8	134
66	A critical review on the effects of zinc at toxic levels of cadmium in plants. <i>Environmental Science and Pollution Research</i> , 2019, 26, 6279-6289.	2.7	134
67	Mitigation of Heat Stress in <i>Solanum lycopersicum</i> L. by ACC-deaminase and Exopolysaccharide Producing <i>Bacillus cereus</i> : Effects on Biochemical Profiling. <i>Sustainability</i> , 2020, 12, 2159.	1.6	133
68	Citric acid assisted phytoextraction of chromium by sunflower; morpho-physiological and biochemical alterations in plants. <i>Ecotoxicology and Environmental Safety</i> , 2017, 145, 90-102.	2.9	131
69	Regulation of Cadmium-Induced Proteomic and Metabolic Changes by 5-Aminolevulinic Acid in Leaves of <i>Brassica napus</i> L.. <i>PLoS ONE</i> , 2015, 10, e0123328.	1.1	130
70	Citric acid enhances the phytoextraction of manganese and plant growth by alleviating the ultrastructural damages in <i>Juncus effusus</i> L.. <i>Journal of Hazardous Materials</i> , 2009, 170, 1156-1163.	6.5	129
71	Effect of foliar applications of silicon and titanium dioxide nanoparticles on growth, oxidative stress, and cadmium accumulation by rice (<i>Oryza sativa</i>). <i>Acta Physiologiae Plantarum</i> , 2019, 41, 1.	1.0	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. <i>Chemosphere</i> , 2017, 174, 515-523.	4.2	128

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73	The accumulation of cadmium in wheat (<i>Triticum aestivum</i>) as influenced by zinc oxide nanoparticles and soil moisture conditions. <i>Environmental Science and Pollution Research</i> , 2019, 26, 19859-19870.	2.7	126
74	Hydrogen sulfide alleviates cadmium-induced morpho-physiological and ultrastructural changes in <i>Brassica napus</i> . <i>Ecotoxicology and Environmental Safety</i> , 2014, 110, 197-207.	2.9	124
75	Evaluation of salinity tolerance and analysis of allelic function of HvHKT1 and HvHKT2 in Tibetan wild barley. <i>Theoretical and Applied Genetics</i> , 2011, 122, 695-703.	1.8	123
76	A critical review of mechanisms involved in the adsorption of organic and inorganic contaminants through biochar. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	0.6	123
77	Effects of silicon on heavy metal uptake at the soil-plant interphase: A review. <i>Ecotoxicology and Environmental Safety</i> , 2021, 222, 112510.	2.9	122
78	Promotive role of 5-aminolevulinic acid on mineral nutrients and antioxidative defense system under lead toxicity in <i>Brassica napus</i> . <i>Industrial Crops and Products</i> , 2014, 52, 617-626.	2.5	119
79	Remediation of heavy metal contaminated soils by using <i>Solanum nigrum</i> : A review. <i>Ecotoxicology and Environmental Safety</i> , 2017, 143, 236-248.	2.9	118
80	PGPR-Mediated Salt Tolerance in Maize by Modulating Plant Physiology, Antioxidant Defense, Compatible Solutes Accumulation and Bio-Surfactant Producing Genes. <i>Plants</i> , 2022, 11, 345.	1.6	118
81	Use of Maize (<i>Zea mays</i> L.) for phytomanagement of Cd-contaminated soils: a critical review. <i>Environmental Geochemistry and Health</i> , 2017, 39, 259-277.	1.8	116
82	Cadmium uptake and translocation: selenium and silicon roles in Cd detoxification for the production of low Cd crops: a critical review. <i>Chemosphere</i> , 2021, 273, 129690.	4.2	116
83	Silicon (Si) alleviates cotton (<i>Gossypium hirsutum</i> L.) from zinc (Zn) toxicity stress by limiting Zn uptake and oxidative damage. <i>Environmental Science and Pollution Research</i> , 2015, 22, 3441-3450.	2.7	112
84	Synthesis, characterization and application of novel MnO and CuO impregnated biochar composites to sequester arsenic (As) from water: Modeling, thermodynamics and reusability. <i>Journal of Hazardous Materials</i> , 2021, 401, 123338.	6.5	112
85	A review of biochar-based sorbents for separation of heavy metals from water. <i>International Journal of Phytoremediation</i> , 2020, 22, 111-126.	1.7	110
86	Synthesis and characterization of titanium dioxide nanoparticles by chemical and green methods and their antifungal activities against wheat rust. <i>Chemosphere</i> , 2020, 258, 127352.	4.2	110
87	Salt stress manifestation on plants, mechanism of salt tolerance and potassium role in alleviating it: a review. <i>Zemdirbyste</i> , 2016, 103, 229-238.	0.3	109
88	Alleviation of cadmium (Cd) toxicity and minimizing its uptake in wheat (<i>Triticum aestivum</i>) by using organic carbon sources in Cd-spiked soil. <i>Environmental Pollution</i> , 2018, 241, 557-565.	3.7	106
89	Phytomanagement of heavy metals in contaminated soils using sunflower: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2016, 46, 1498-1528.	6.6	105
90	A newly discovered Cd-hyperaccumulator <i>Lantana camara</i> L.. <i>Journal of Hazardous Materials</i> , 2019, 371, 233-242.	6.5	103

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91	Jute: A Potential Candidate for Phytoremediation of Metals—A Review. <i>Plants</i> , 2020, 9, 258.	1.6	102
92	Flax (<i>Linum usitatissimum</i> L.): A Potential Candidate for Phytoremediation? Biological and Economical Points of View. <i>Plants</i> , 2020, 9, 496.	1.6	102
93	Enhancement of phenanthrene and pyrene degradation in rhizosphere of tall fescue (<i>Festuca</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 101	6.5	101
94	Adsorption of cationic dyes onto carrageenan and itaconic acid-based superabsorbent hydrogel: Synthesis, characterization and isotherm analysis. <i>Journal of Hazardous Materials</i> , 2022, 421, 126729.	6.5	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. <i>PLoS ONE</i> , 2018, 13, e0198159.	1.1	99
96	Drought Tolerance of Soybean (<i>Glycine max</i> L. Merr.) by Improved Photosynthetic Characteristics and an Efficient Antioxidant Enzyme Activities Under a Split-Root System. <i>Frontiers in Physiology</i> , 2019, 10, 786.	1.3	99
97	Charge storage in binder-free 2D-hexagonal CoMoO ₄ nanosheets as a redox active material for pseudocapacitors. <i>Ceramics International</i> , 2021, 47, 8659-8667.	2.3	99
98	5-Aminolevulinic acid ameliorates cadmium-induced morphological, biochemical, and ultrastructural changes in seedlings of oilseed rape. <i>Environmental Science and Pollution Research</i> , 2013, 20, 7256-7267.	2.7	97
99	Glycinebetaine mediates chromium tolerance in mung bean through lowering of Cr uptake and improved antioxidant system. <i>Archives of Agronomy and Soil Science</i> , 2016, 62, 648-662.	1.3	97
100	Role of iron-lysine on morpho-physiological traits and combating chromium toxicity in rapeseed (<i>Brassica napus</i> L.) plants irrigated with different levels of tannery wastewater. <i>Plant Physiology and Biochemistry</i> , 2020, 155, 70-84.	2.8	96
101	Towards achieving eco-efficiency in top 10 polluted countries: The role of green technology and natural resource rents. <i>Gondwana Research</i> , 2022, 110, 114-127.	3.0	96
102	Silicon alleviates nickel toxicity in cotton seedlings through enhancing growth, photosynthesis, and suppressing Ni uptake and oxidative stress. <i>Archives of Agronomy and Soil Science</i> , 2016, 62, 633-647.	1.3	95
103	Effect of biochar modified with magnetite nanoparticles and HNO ₃ for efficient removal of Cr(VI) from contaminated water: A batch and column scale study. <i>Environmental Pollution</i> , 2020, 261, 114231.	3.7	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. <i>Science of the Total Environment</i> , 2019, 658, 626-637.	3.9	94
105	Foliar application of ascorbate enhances the physiological and biochemical attributes of maize (<i>Zea mays</i> L.) cultivars under drought stress. <i>Archives of Agronomy and Soil Science</i> , 2015, 61, 1659-1672.	1.3	93
106	Split application of silicon in cadmium (Cd) spiked alkaline soil plays a vital role in decreasing Cd accumulation in rice (<i>Oryza sativa</i> L.) grains. <i>Chemosphere</i> , 2019, 226, 454-462.	4.2	93
107	Use of Nitric Oxide and Hydrogen Peroxide for Better Yield of Wheat (<i>Triticum aestivum</i> L.) under Water Deficit Conditions: Growth, Osmoregulation, and Antioxidative Defense Mechanism. <i>Plants</i> , 2020, 9, 285.	1.6	93
108	Silicon mediated improvement in the growth and ion homeostasis by decreasing Na ⁺ uptake in maize (<i>Zea mays</i> L.) cultivars exposed to salinity stress. <i>Plant Physiology and Biochemistry</i> , 2021, 158, 208-218.	2.8	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. <i>Ecotoxicology and Environmental Safety</i> , 2015, 122, 1-8.	2.9	92
110	Chromium resistant microbes and melatonin reduced Cr uptake and toxicity, improved physio-biochemical traits and yield of wheat in contaminated soil. <i>Chemosphere</i> , 2020, 250, 126239.	4.2	91
111	Start-up of UASB reactors treating municipal wastewater and effect of temperature/sludge age and hydraulic retention time (HRT) on its performance. <i>Arabian Journal of Chemistry</i> , 2015, 8, 780-786.	2.3	90
112	Arsenic(V) biosorption by charred orange peel in aqueous environments. <i>International Journal of Phytoremediation</i> , 2016, 18, 442-449.	1.7	90
113	Subcellular distribution and chemical forms of chromium in rice plants suffering from different levels of chromium toxicity. <i>Journal of Plant Nutrition and Soil Science</i> , 2011, 174, 249-256.	1.1	89
114	Effects of <sc>24â€pibrassinolide</sc> on plant growth, antioxidants defense system, and endogenous hormones in two wheat varieties under drought stress. <i>Physiologia Plantarum</i> , 2021, 172, 696-706.	2.6	89
115	Application of abscisic acid and 6-benzylaminopurine modulated morpho-physiological and antioxidative defense responses of tomato (<i>Solanum lycopersicum</i> L.) by minimizing cobalt uptake. <i>Chemosphere</i> , 2021, 263, 128169.	4.2	88
116	Floating Wetlands: A Sustainable Tool for Wastewater Treatment. <i>Clean - Soil, Air, Water</i> , 2018, 46, 1800120.	0.7	85
117	Facet controlled polyhedral ZIF-8 MOF nanostructures for excellent NO ₂ gas-sensing applications. <i>Materials Research Bulletin</i> , 2021, 136, 111133.	2.7	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. <i>Environmental and Experimental Botany</i> , 2011, 70, 185-191.	2.0	84
119	<i>Proteus mirabilis</i> alleviates zinc toxicity by preventing oxidative stress in maize (<i>Zea mays</i>) plants. <i>Ecotoxicology and Environmental Safety</i> , 2014, 110, 143-152.	2.9	84
120	Glycine Betaine Accumulation, Significance and Interests for Heavy Metal Tolerance in Plants. <i>Plants</i> , 2020, 9, 896.	1.6	84
121	Copper-resistant bacteria reduces oxidative stress and uptake of copper in lentil plants: potential for bacterial bioremediation. <i>Environmental Science and Pollution Research</i> , 2016, 23, 220-233.	2.7	83
122	Improvement of element uptake and antioxidative defense in <i>Brassica napus</i> under lead stress by application of hydrogen sulfide. <i>Plant Growth Regulation</i> , 2014, 74, 261-273.	1.8	82
123	High sorption efficiency for As(III) and As(V) from aqueous solutions using novel almond shell biochar. <i>Chemosphere</i> , 2020, 243, 125330.	4.2	81
124	Comparative effectiveness of different biochars and conventional organic materials on growth, photosynthesis and cadmium accumulation in cereals. <i>Chemosphere</i> , 2019, 227, 72-81.	4.2	80
125	Hydrogen sulfide ameliorates lead-induced morphological, photosynthetic, oxidative damages and biochemical changes in cotton. <i>Environmental Science and Pollution Research</i> , 2014, 21, 717-731.	2.7	79
126	EDTA ameliorates phytoextraction of lead and plant growth by reducing morphological and biochemical injuries in <i>Brassica napus</i> L. under lead stress. <i>Environmental Science and Pollution Research</i> , 2014, 21, 9899-9910.	2.7	79

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127	Review of Upflow Anaerobic Sludge Blanket Reactor Technology: Effect of Different Parameters and Developments for Domestic Wastewater Treatment. <i>Journal of Chemistry</i> , 2018, 2018, 1-13.	0.9	79
128	Chromium-resistant <i>Staphylococcus aureus</i> alleviates chromium toxicity by developing synergistic relationships with zinc oxide nanoparticles in wheat. <i>Ecotoxicology and Environmental Safety</i> , 2022, 230, 113142.	2.9	79
129	Phyto-management of chromium contaminated soils through sunflower under exogenously applied 5-aminolevulinic acid. <i>Ecotoxicology and Environmental Safety</i> , 2018, 151, 255-265.	2.9	78
130	Glycine betaine-induced lead toxicity tolerance related to elevated photosynthesis, antioxidant enzymes suppressed lead uptake and oxidative stress in cotton. <i>Turkish Journal of Botany</i> , 2014, 38, 281-292.	0.5	76
131	Citric acid enhanced the antioxidant defense system and chromium uptake by <i>Lemna minor</i> L. grown in hydroponics under Cr stress. <i>Environmental Science and Pollution Research</i> , 2017, 24, 17669-17678.	2.7	76
132	Effect of foliar-applied iron complexed with lysine on growth and cadmium (Cd) uptake in rice under Cd stress. <i>Environmental Science and Pollution Research</i> , 2018, 25, 20691-20699.	2.7	76
133	Priming-induced antioxidative responses in two wheat cultivars under saline stress. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.	1.0	75
134	Role of Microorganisms in the Remediation of Wastewater in Floating Treatment Wetlands: A Review. <i>Sustainability</i> , 2020, 12, 5559.	1.6	75
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136	Oxidative injury and antioxidant enzymes regulation in arsenic-exposed seedlings of four <i>Brassica napus</i> L. cultivars. <i>Environmental Science and Pollution Research</i> , 2015, 22, 10699-10712.	2.7	73
137	Potassium application mitigates salt stress differentially at different growth stages in tolerant and sensitive maize hybrids. <i>Plant Growth Regulation</i> , 2015, 76, 111-125.	1.8	73
138	Role of Zinc and Lysine on Growth and Chromium Uptake in Rice Plants under Cr Stress. <i>Journal of Plant Growth Regulation</i> , 2018, 37, 1413-1422.	2.8	73
139	Glycinebetaine alleviates the chromium toxicity in <i>Brassica oleracea</i> L. by suppressing oxidative stress and modulating the plant morphology and photosynthetic attributes. <i>Environmental Science and Pollution Research</i> , 2020, 27, 1101-1111.	2.7	72
140	Heavy metal remediation and resistance mechanism of <i>Aeromonas</i> , <i>Bacillus</i> , and <i>Pseudomonas</i> : A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 1868-1914.	6.6	71
141	Cadmium-induced ultramorphological and physiological changes in leaves of two transgenic cotton cultivars and their wild relative. <i>Journal of Hazardous Materials</i> , 2009, 168, 614-625.	6.5	69
142	Comparative transcriptome profiling of two <i>Brassica napus</i> cultivars under chromium toxicity and its alleviation by reduced glutathione. <i>BMC Genomics</i> , 2016, 17, 885.	1.2	69
143	Comparative efficiency of peanut shell and peanut shell biochar for removal of arsenic from water. <i>Environmental Science and Pollution Research</i> , 2019, 26, 18624-18635.	2.7	69
144	Effect of planting patterns on yield, nutrient accumulation and distribution in maize and soybean under relay intercropping systems. <i>Scientific Reports</i> , 2019, 9, 4947.	1.6	69

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146	Assessing the Correlations between Different Traits in Copper-Sensitive and Copper-Resistant Varieties of Jute (<i>Corchorus capsularis</i> L.). <i>Plants</i> , 2019, 8, 545.	1.6	68
147	Boron supply alleviates cadmium toxicity in rice (<i>Oryza sativa</i> L.) by enhancing cadmium adsorption on cell wall and triggering antioxidant defense system in roots. <i>Chemosphere</i> , 2021, 266, 128938.	4.2	68
148	Alleviation of chromium toxicity by hydrogen sulfide in barley. <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 2234-2239.	2.2	67
149	Approaches in Enhancing Thermotolerance in Plants: An Updated Review. <i>Journal of Plant Growth Regulation</i> , 2020, 39, 456-480.	2.8	67
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151	A Critical Review on the Synthesis of Natural Sodium Alginate Based Composite Materials: An Innovative Biological Polymer for Biomedical Delivery Applications. <i>Processes</i> , 2021, 9, 137.	1.3	67
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154	Differential physiological, ultramorphological and metabolic responses of cotton cultivars under cadmium stress. <i>Chemosphere</i> , 2013, 93, 2593-2602.	4.2	66
155	Changes in precipitation extremes over arid to semiarid and subhumid Punjab, Pakistan. <i>Theoretical and Applied Climatology</i> , 2014, 116, 671-680.	1.3	66
156	Uptake and distribution of minerals and heavy metals in commonly grown leafy vegetable species irrigated with sewage water. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 541.	1.3	66
157	Organic chelants-mediated enhanced lead (Pb) uptake and accumulation is associated with higher activity of enzymatic antioxidants in spinach (<i>Spinacea oleracea</i> L.). <i>Journal of Hazardous Materials</i> , 2016, 317, 352-361.	6.5	66
158	Adsorption-reduction performance of tea waste and rice husk biochars for Cr(VI) elimination from wastewater. <i>Journal of Saudi Chemical Society</i> , 2020, 24, 799-810.	2.4	66
159	Arsenic behavior in soil-plant system and its detoxification mechanisms in plants: A review. <i>Environmental Pollution</i> , 2021, 286, 117389.	3.7	66
160	Foliar application of aspartic acid lowers cadmium uptake and Cd-induced oxidative stress in rice under Cd stress. <i>Environmental Science and Pollution Research</i> , 2017, 24, 21938-21947.	2.7	65
161	Application of co-composted farm manure and biochar increased the wheat growth and decreased cadmium accumulation in plants under different water regimes. <i>Chemosphere</i> , 2020, 246, 125809.	4.2	65
162	Effect of Cadmium Toxicity on Growth, Oxidative Damage, Antioxidant Defense System and Cadmium Accumulation in Two Sorghum Cultivars. <i>Plants</i> , 2020, 9, 1575.	1.6	65

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163	Combined application of citric acid and 5-aminolevulinic acid improved biomass, photosynthesis and gas exchange attributes of sunflower (<i>Helianthus annuus</i> L.) grown on chromium contaminated soil. <i>International Journal of Phytoremediation</i> , 2019, 21, 760-767.	1.7	64
164	Isolating, screening and applying chromium reducing bacteria to promote growth and yield of okra (<i>Hibiscus esculentus</i> L.) in chromium contaminated soils. <i>Ecotoxicology and Environmental Safety</i> , 2015, 114, 343-349.	2.9	63
165	Textile Wastewater Treatment Options: A Critical Review. , 2017, , 183-207.		63
166	Farmyard manure alone and combined with immobilizing amendments reduced cadmium accumulation in wheat and rice grains grown in field irrigated with raw effluents. <i>Chemosphere</i> , 2018, 199, 468-476.	4.2	63
167	<i>Phragmites australis</i> in combination with hydrocarbons degrading bacteria is a suitable option for remediation of diesel-contaminated water in floating wetlands. <i>Chemosphere</i> , 2020, 240, 124890.	4.2	62
168	Biofilm forming rhizobacteria enhance growth and salt tolerance in sunflower plants by stimulating antioxidant enzymes activity. <i>Plant Physiology and Biochemistry</i> , 2020, 156, 242-256.	2.8	61
169	<i>Bacillus siamensis</i> Reduces Cadmium Accumulation and Improves Growth and Antioxidant Defense System in Two Wheat (<i>Triticum aestivum</i> L.) Varieties. <i>Plants</i> , 2020, 9, 878.	1.6	61
170	A manipulative interplay between positive and negative regulators of phytohormones: A way forward for improving drought tolerance in plants. <i>Physiologia Plantarum</i> , 2021, 172, 1269-1290.	2.6	61
171	Photosynthesis and growth response of maize (<i>Zea mays</i> L.) hybrids exposed to cadmium stress. <i>Environmental Science and Pollution Research</i> , 2017, 24, 5521-5529.	2.7	60
172	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. <i>Chemosphere</i> , 2020, 243, 125353.	4.2	60
173	Biodecolorization of reactive black-5 by a metal and salt tolerant bacterial strain <i>Pseudomonas</i> sp. RA20 isolated from Paharang drain effluents in Pakistan. <i>Ecotoxicology and Environmental Safety</i> , 2013, 98, 331-338.	2.9	59
174	Recent advancement and development of chitin and chitosan-based nanocomposite for drug delivery: Critical approach to clinical research. <i>Arabian Journal of Chemistry</i> , 2020, 13, 8935-8964.	2.3	59
175	Exogenous abscisic acid and jasmonic acid restrain polyethylene glycol-induced drought by improving the growth and antioxidative enzyme activities in pearl millet. <i>Physiologia Plantarum</i> , 2021, 172, 809-819.	2.6	59
176	Exogenously applied growth regulators protect the cotton crop from heat-induced injury by modulating plant defense mechanism. <i>Scientific Reports</i> , 2018, 8, 17086.	1.6	58
177	Residual effects of frequently available organic amendments on cadmium bioavailability and accumulation in wheat. <i>Chemosphere</i> , 2020, 244, 125548.	4.2	58
178	Combined effect of <i>Bacillus fortis</i> IAGS 223 and zinc oxide nanoparticles to alleviate cadmium phytotoxicity in <i>Cucumis melo</i> . <i>Plant Physiology and Biochemistry</i> , 2021, 158, 1-12.	2.8	58
179	Environmental Hazards of Cadmium: Past, Present, and Future. , 2019, , 163-183.		57
180	Citric Acid Enhances Plant Growth, Photosynthesis, and Phytoextraction of Lead by Alleviating the Oxidative Stress in Castor Beans. <i>Plants</i> , 2019, 8, 525.	1.6	57

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182	Effects of nanoparticles on trace element uptake and toxicity in plants: A review. <i>Ecotoxicology and Environmental Safety</i> , 2021, 221, 112437.	2.9	57
183	Efficiency of various sewage sludges and their biochars in improving selected soil properties and growth of wheat (<i>Triticum aestivum</i>). <i>Journal of Environmental Management</i> , 2018, 223, 607-613.	3.8	56
184	Narrow-wide row planting pattern increases the radiation use efficiency and seed yield of intercrop species in relay intercropping system. <i>Food and Energy Security</i> , 2019, 8, e170.	2.0	56
185	Management of tannery wastewater for improving growth attributes and reducing chromium uptake in spinach through citric acid application. <i>Environmental Science and Pollution Research</i> , 2018, 25, 10848-10856.	2.7	55
186	Effect of gibberellic acid on growth, photosynthesis and antioxidant defense system of wheat under zinc oxide nanoparticle stress. <i>Environmental Pollution</i> , 2019, 254, 113109.	3.7	55
187	Narrow-wide row planting pattern improves the light environment and seed yields of intercrop species in relay intercropping system. <i>PLoS ONE</i> , 2019, 14, e0212885.	1.1	55
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192	Role of mineral nutrition in alleviation of heat stress in cotton plants grown in glasshouse and field conditions. <i>Scientific Reports</i> , 2019, 9, 13022.	1.6	54
193	Zinc-lysine Supplementation Mitigates Oxidative Stress in Rapeseed (<i>Brassica napus</i> L.) by Preventing Phytotoxicity of Chromium, When Irrigated with Tannery Wastewater. <i>Plants</i> , 2020, 9, 1145.	1.6	53
194	Influence of biochar amendment and foliar application of iron oxide nanoparticles on growth, photosynthesis, and cadmium accumulation in rice biomass. <i>Journal of Soils and Sediments</i> , 2019, 19, 3749-3759.	1.5	52
195	Copper Uptake and Accumulation, Ultra-Structural Alteration, and Bast Fibre Yield and Quality of Fibrous Jute (<i>Corchorus capsularis</i> L.) Plants Grown under Two Different Soils of China. <i>Plants</i> , 2020, 9, 404.	1.6	52
196	Green magnesium oxide nanoparticles-based modulation of cellular oxidative repair mechanisms to reduce arsenic uptake and translocation in rice (<i>Oryza sativa</i> L.) plants. <i>Environmental Pollution</i> , 2021, 288, 117785.	3.7	52
197	Iron-Lysine Mediated Alleviation of Chromium Toxicity in Spinach (<i>Spinacia oleracea</i> L.) Plants in Relation to Morpho-Physiological Traits and Iron Uptake When Irrigated with Tannery Wastewater. <i>Sustainability</i> , 2020, 12, 6690.	1.6	52
198	Effect of different amendments on rice (<i>Oryza sativa</i> L.) growth, yield, nutrient uptake and grain quality in Ni-contaminated soil. <i>Environmental Science and Pollution Research</i> , 2016, 23, 18585-18595.	2.7	51

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200	Effects of selenium on the uptake of toxic trace elements by crop plants: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 2531-2566.	6.6	50
201	Organic chelates decrease phytotoxic effects and enhance chromium uptake by regulating chromium-speciation in castor bean (<i>Ricinus communis</i> L.). <i>Science of the Total Environment</i> , 2020, 716, 137061.	3.9	50
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203	Alpha-tocopherol fertigation confers growth physio-biochemical and qualitative yield enhancement in field grown water deficit wheat (<i>Triticum aestivum</i> L.). <i>Scientific Reports</i> , 2019, 9, 12924.	1.6	48
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213	Research advances and applications of biosensing technology for the diagnosis of pathogens in sustainable agriculture. <i>Environmental Science and Pollution Research</i> , 2021, 28, 9002-9019.	2.7	45
214	Growth and development of soybean under changing light environments in relay intercropping system. <i>PeerJ</i> , 2019, 7, e7262.	0.9	45
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219	Effective sequestration of Congo red dye with ZnO/cotton stalks biochar nanocomposite: MODELING, reusability and stability. <i>Journal of Saudi Chemical Society</i> , 2021, 25, 101176.	2.4	44
220	Individual and combined application of EDTA and citric acid assisted phytoextraction of copper using jute (<i>Corchorus capsularis</i> L.) seedlings. <i>Environmental Technology and Innovation</i> , 2020, 19, 100895.	3.0	44
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222	Alleviation of Lead Toxicity by 5-Aminolevulinic Acid Is Related to Elevated Growth, Photosynthesis, and Suppressed Ultrastructural Damages in Oilseed Rape. <i>BioMed Research International</i> , 2014, 2014, 1-11.	0.9	41
223	Interactive role of zinc and iron lysine on <i>Spinacia oleracea</i> L. growth, photosynthesis and antioxidant capacity irrigated with tannery wastewater. <i>Physiology and Molecular Biology of Plants</i> , 2020, 26, 2435-2452.	1.4	41
224	Interactive effects of gibberellic acid and NPK on morpho-physio-biochemical traits and organic acid exudation pattern in coriander (<i>Coriandrum sativum</i> L.) grown in soil artificially spiked with boron. <i>Plant Physiology and Biochemistry</i> , 2021, 167, 884-900.	2.8	41
225	Comprehensive transcriptional landscape of porcine cardiac and skeletal muscles reveals differences of aging. <i>Oncotarget</i> , 2018, 9, 1524-1541.	0.8	41
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231	Implementation of Floating Treatment Wetlands for Textile Wastewater Management: A Review. <i>Sustainability</i> , 2020, 12, 5801.	1.6	38
232	Accumulation potential and tolerance response of <i>Typha latifolia</i> L. under citric acid assisted phytoextraction of lead and mercury. <i>Chemosphere</i> , 2020, 257, 127247.	4.2	38
233	Utilization of Ag ₂ O-Al ₂ O ₃ -ZrO ₂ decorated onto rGO as adsorbent for the removal of Congo red from aqueous solution. <i>Environmental Research</i> , 2021, 197, 111179.	3.7	38
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236	Phytoremediation of landfill leachate waste contaminants through floating bed technique using water hyacinth and water lettuce. <i>International Journal of Phytoremediation</i> , 2019, 21, 1356-1367.	1.7	37
237	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. <i>Environmental Pollution</i> , 2020, 259, 113938.	3.7	37
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239	Effect of composted organic amendments and zinc oxide nanoparticles on growth and cadmium accumulation by wheat; a life cycle study. <i>Environmental Science and Pollution Research</i> , 2020, 27, 23926-23936.	2.7	37
240	Risk Assessment of Heavy Metals in Basmati Rice: Implications for Public Health. <i>Sustainability</i> , 2021, 13, 8513.	1.6	37
241	Combined application of zinc and iron-lysine and its effects on morpho-physiological traits, antioxidant capacity and chromium uptake in rapeseed (<i>Brassica napus</i> L.). <i>PLoS ONE</i> , 2022, 17, e0262140.	1.1	37
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243	Selenium and Salt Interactions in Black Gram (<i>Vigna mungo</i> L): Ion Uptake, Antioxidant Defense System, and Photochemistry Efficiency. <i>Plants</i> , 2020, 9, 467.	1.6	36
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248	Alleviation of Cadmium Phytotoxicity Using Silicon Fertilization in Wheat by Altering Antioxidant Metabolism and Osmotic Adjustment. <i>Sustainability</i> , 2021, 13, 11317.	1.6	35
249	Current trends and future prospective in nanoremediation of heavy metals contaminated soils: A way forward towards sustainable agriculture. <i>Ecotoxicology and Environmental Safety</i> , 2021, 227, 112888.	2.9	35
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257	Novel multimodel ensemble approach to evaluate the sole effect of elevated CO_2 on winter wheat productivity. <i>Scientific Reports</i> , 2019, 9, 7813.	1.6	32
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272	Application of bio and chemical fertilizers improves yield, and essential oil quantity and quality of Moldavian balm (<i>Dracocephalum moldavica</i> L.) intercropped with mung bean (<i>Vigna</i>) Tj ETQq0 0 0 rgBT /20erlock 30 Tf 50 69	2.7	30
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398	Abandoned agriculture soil can be recultivated by promoting biological phosphorus fertility when amended with nano-rock phosphate and suitable bacterial inoculant. <i>Ecotoxicology and Environmental Safety</i> , 2022, 234, 113385.	2.9	13
399	Comprehensive transcriptional profiling of porcine brain aging. <i>Gene</i> , 2019, 693, 1-9.	1.0	12
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408	Sugarcane waste straw biochar and its effects on calcareous soil and agronomic traits of okra. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	0.6	11
409	<i>Solanum nigrum</i> L.: A Novel Hyperaccumulator for the Phyto-Management of Cadmium Contaminated Soils. , 2019, , 451-477.		11
410	Heterogeneous Light Conditions Reduce the Assimilate Translocation Towards Maize Ears. <i>Plants</i> , 2020, 9, 987.	1.6	11
411	Antioxidant, Antibacterial, and Anticancer Activities of Bitter Gourd Fruit Extracts at Three Different Cultivation Stages. <i>Journal of Chemistry</i> , 2020, 2020, 1-10.	0.9	11
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452	Effect of biochars, biogenic, and inorganic amendments on dissolution and kinetic release of phytoavailable silicon in texturally different soils under submerged conditions. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	0.6	7
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