Effects of boron, silicon and their interactions on cadmi rice plants

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Citation Report

#	Article	IF	Citations
1	Advances in the Uptake and Transport Mechanisms and QTLs Mapping of Cadmium in Rice. International Journal of Molecular Sciences, 2019, 20, 3417.	1.8	50
3	Agroecotoxicological Aspect of Arsenic (As) and Cadmium (Cd) on Field Crops and its Mitigation: Current Status and Future Prospect. , 2019, , 217-246.		15
4	Cadmium excretion via leaf hydathodes in tall fescue and its phytoremediation potential. Environmental Pollution, 2019, 252, 1406-1411.	3.7	24
5	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.	3.7	75
6	Combined effects of artificial sweetener acesulfame on the uptake of Cd in rice (Oryza sativa L.). Environmental Pollution, 2019, 252, 171-179.	3.7	8
7	Deficiency in Silicon Transporter Lsi1 Compromises Inducibility of Anti-herbivore Defense in Rice Plants. Frontiers in Plant Science, 2019, 10, 652.	1.7	38
8	Hybrid ash/biochar biocomposites as soil amendments for the alleviation of cadmium accumulation by Oryza sativa L. in a contaminated paddy field. Chemosphere, 2020, 239, 124805.	4.2	23
9	Glutamate alleviates cadmium toxicity in rice via suppressing cadmium uptake and translocation. Journal of Hazardous Materials, 2020, 384, 121319.	6.5	94
10	The Influence of pH on Cadmium Accumulation in Seedlings of Rice (Oryza sativa L.). Journal of Plant Growth Regulation, 2020, 39, 930-940.	2.8	22
11	The sweet side of misbalanced nutrients in cadmiumâ€stressed plants. Annals of Applied Biology, 2020, 176, 275-284.	1.3	24
12	Effect of amendment of biochar supplemented with Si on Cd mobility and rice uptake over three rice growing seasons in an acidic Cd-tainted paddy from central South China. Science of the Total Environment, 2020, 709, 136101.	3.9	43
13	Investigating toxicity of urban road deposited sediments using Chinese hamster ovary cells and Chlorella Pyrenoidosa. Chemosphere, 2020, 245, 125634.	4.2	8
14	Histochemical and physicochemical studies reveal improved defense in tomato under Cd stress with rhizobacterial supplementation. Plant and Soil, 2020, 446, 393-411.	1.8	8
15	Role of Ferrous Sulfate (FeSO4) in Resistance to Cadmium Stress in Two Rice (Oryza sativa L.) Genotypes. Biomolecules, 2020, 10, 1693.	1.8	51
16	Boron inhibits cadmium uptake in wheat (Triticum aestivum) by regulating gene expression. Plant Science, 2020, 297, 110522.	1.7	24
17	Alleviation mechanisms of metal(loid) stress in plants by silicon: a review. Journal of Experimental Botany, 2020, 71, 6744-6757.	2.4	93
18	Silicon-induced thermotolerance in Solanum lycopersicum L. via activation of antioxidant system, heat shock proteins, and endogenous phytohormones. BMC Plant Biology, 2020, 20, 248.	1.6	56
19	Influence of silicon on cadmium availability and cadmium uptake by rice in acid and alkaline paddy soils. Journal of Soils and Sediments, 2020, 20, 2343-2353.	1.5	20

#	Article	IF	Citations
20	Effects of zinc application on cadmium (Cd) accumulation and plant growth through modulation of the antioxidant system and translocation of Cd in low- and high-Cd wheat cultivars. Environmental Pollution, 2020, 265, 115045.	3.7	65
21	Fascinating impact of silicon and silicon transporters in plants: A review. Ecotoxicology and Environmental Safety, 2020, 202, 110885.	2.9	62
22	Insight into the Role of Epigenetic Processes in Abiotic and Biotic Stress Response in Wheat and Barley. International Journal of Molecular Sciences, 2020, 21, 1480.	1.8	59
23	Cadmium and lead mixtures are less toxic to the Chinese medicinal plant Ligusticum chuanxiong Hort. Than either metal alone. Ecotoxicology and Environmental Safety, 2020, 193, 110342.	2.9	26
24	Cocoa-laden cadmium threatens human health and cacao economy: A critical view. Science of the Total Environment, 2020, 720, 137645.	3.9	56
25	Boron mitigates cadmium toxicity to rapeseed (Brassica napus) shoots by relieving oxidative stress and enhancing cadmium chelation onto cell walls. Environmental Pollution, 2020, 263, 114546.	3.7	53
26	Effects of ketoprofen on rice seedlings: Insights from photosynthesis, antioxidative stress, gene expression patterns, and integrated biomarker response analysis. Environmental Pollution, 2020, 263, 114533.	3.7	25
27	Boron alleviates cadmium toxicity in Brassica napus by promoting the chelation of cadmium onto the root cell wall components. Science of the Total Environment, 2020, 728, 138833.	3.9	63
28	A two-year field study of using a new material for remediation of cadmium contaminated paddy soil. Environmental Pollution, 2020, 263, 114614.	3.7	27
29	Combined application of silicon and nitric oxide jointly alleviated cadmium accumulation and toxicity in maize. Journal of Hazardous Materials, 2020, 395, 122679.	6.5	66
30	Synergistic effect of silicon and selenium on the alleviation of cadmium toxicity in rice plants. Journal of Hazardous Materials, 2021, 401, 123393.	6.5	137
31	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.	4.2	68
32	Silicon fertilizers mitigate rice cadmium and arsenic uptake in a 4-year field trial. Journal of Soils and Sediments, 2021, 21, 163-171.	1.5	8
33	Soil and foliar applications of silicon and selenium effects on cadmium accumulation and plant growth by modulation of antioxidant system and Cd translocation: Comparison of soft vs. durum wheat varieties. Journal of Hazardous Materials, 2021, 402, 123546.	6.5	103
34	Coordination between root cell wall thickening and pectin modification is involved in cadmium accumulation in Sedum alfredii. Environmental Pollution, 2021, 268, 115665.	3.7	48
35	Synergistic effects of nitric oxide and silicon on promoting plant growth, oxidative stress tolerance and reduction of arsenic uptake in Brassica juncea. Chemosphere, 2021, 262, 128384.	4.2	102
36	Vanadium in soil-plant system: Source, fate, toxicity, and bioremediation. Journal of Hazardous Materials, 2021, 405, 124200.	6.5	111
37	Potential of a novel modified gangue amendment to reduce cadmium uptake in lettuce (Lactuca sativa) Tj ETQq1 1 0.784314 rgBT /O	6.5	15

#	Article	IF	Citations
38	Cadmium accumulation in rice and its bioavailability in paddy soil with application of silicon fertilizer under different water management regimes. Soil Use and Management, 2021, 37, 299-306.	2.6	8
39	Rapid and visual detection of Cd2+ based on aza-BODIPY near infrared dye and its application in real and biological samples for environmental contamination screening. Journal of Hazardous Materials, 2021, 409, 124487.	6.5	14
40	Growth and nutritional responses of wild and domesticated cacao genotypes to soil Cd stress. Science of the Total Environment, 2021, 763, 144021.	3.9	12
41	Potential of using a new aluminosilicate amendment for the remediation of paddy soil co-contaminated with Cd and Pb. Environmental Pollution, 2021, 269, 116198.	3.7	17
42	Cadmium accumulation and physiological response of Amaranthus tricolor L. under soil and atmospheric stresses. Environmental Science and Pollution Research, 2021, 28, 14041-14053.	2.7	11
43	Silicon and Plant Responses Under Adverse Environmental Conditions. , 2021, , 357-385.		5
44	Application of ferrous sulfate alleviates negative impact of cadmium in rice (Oryza sativa L.). Biocell, 2021, 45, 1631-1649.	0.4	18
45	Gold nanoparticles synthesized using melatonin suppress cadmium uptake and alleviate its toxicity in rice. Environmental Science: Nano, 2021, 8, 1042-1056.	2.2	33
46	Recent progress in biomass-derived carbon materials used for secondary batteries. Sustainable Energy and Fuels, 2021, 5, 3017-3038.	2.5	36
47	Toxic effects of cadmium on growth of Aloe ferox Mill.. South African Journal of Botany, 2021, , .	1.2	5
48	Nanoparticle-based amelioration of drought stress and cadmium toxicity in rice via triggering the stress responsive genetic mechanisms and nutrient acquisition. Ecotoxicology and Environmental Safety, 2021, 209, 111829.	2.9	98
49	Role of silicon on root morphological characters of wheat (Triticum aestivum L.) plants grown under Cd-contaminated nutrient solution. Acta Physiologiae Plantarum, 2021, 43, 1.	1.0	22
50	Combined effects of carbon nanotubes and cadmium on the photosynthetic capacity and antioxidant response of wheat seedlings. Environmental Science and Pollution Research, 2021, 28, 34344-34354.	2.7	3
51	Nano-selenium, silicon and H2O2 boost growth and productivity of cucumber under combined salinity and heat stress. Ecotoxicology and Environmental Safety, 2021, 212, 111962.	2.9	87
53	Silicon alleviates cadmium stress in basil (Ocimum basilicum L.) through alteration of phytochemical and physiological characteristics. Industrial Crops and Products, 2021, 163, 113338.	2.5	29
54	Boron decreases cadmium influx into root cells of Capsicum annuum by altering cell wall components and plasmalemma permeability. Environmental Science and Pollution Research, 2021, 28, 52587-52597.	2.7	9
55	Genome-wide analysis of the serine carboxypeptidase-like protein family in Triticum aestivum reveals TaSCPL184-6D is involved in abiotic stress response. BMC Genomics, 2021, 22, 350.	1.2	24
56	Effect of exogenous silicon and methyl jasmonate on the alleviation of cadmium-induced phytotoxicity in tomato plants. Environmental Science and Pollution Research, 2021, 28, 51854-51864.	2.7	15

#	Article	IF	Citations
57	Soil application of manganese sulfate could reduce wheat Cd accumulation in Cd contaminated soil by the modulation of the key tissues and ionomic of wheat. Science of the Total Environment, 2021, 770, 145328.	3.9	42
58	Exogenous Glutathione Alleviates Cadmium Toxicity in Wheat by Influencing the Absorption and Translocation of Cadmium. Bulletin of Environmental Contamination and Toxicology, 2021, 107, 320-326.	1.3	24
59	Cadmium uptake and translocation: selenium and siliconÂroles in Cd detoxification for the production of low Cd crops: a critical review. Chemosphere, 2021, 273, 129690.	4.2	116
60	Foliage application of chitosan alleviates the adverse effects of cadmium stress in wheat seedlings (Triticum aestivum L.). Plant Physiology and Biochemistry, 2021, 164, 115-121.	2.8	16
61	Heavy metals in soil-vegetable system around E-waste site and the health risk assessment. Science of the Total Environment, 2021, 779, 146438.	3.9	65
62	Influence of Silicon and Selenium and Contribution of the Node to Cadmium Allocation and Toxicity in Rice. ACS Agricultural Science and Technology, 2021, 1, 550-557.	1.0	8
63	Foliar-applied silicon nanoparticles mitigate cadmium stress through physio-chemical changes to improve growth, antioxidant capacity, and essential oil profile of summer savory (Satureja hortensis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.8	54
64	Mitigation of climate change and environmental hazards in plants: Potential role of the beneficial metalloid silicon. Journal of Hazardous Materials, 2021, 416, 126193.	6.5	19
65	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.	5.4	15
66	Silicon enhancement for endorsement of Xanthomonas albilineans infection in sugarcane. Ecotoxicology and Environmental Safety, 2021, 220, 112380.	2.9	12
67	Astaxanthin and its gold nanoparticles mitigate cadmium toxicity in rice by inhibiting cadmium translocation and uptake. Science of the Total Environment, 2021, 786, 147496.	3.9	37
68	Colonized extremophile Deinococcus radiodurans alleviates toxicity of cadmium and lead by suppressing heavy metal accumulation and improving antioxidant system in rice. Environmental Pollution, 2021, 284, 117127.	3.7	13
69	Graphene oxide decreases Cd concentration in rice seedlings but intensifies growth restriction. Journal of Hazardous Materials, 2021, 417, 125958.	6.5	26
70	Influence of nitrogen forms, pH, and water levels on cadmium speciation and characteristics of cadmium uptake by rapeseed. Environmental Science and Pollution Research, 2022, 29, 13612-13623.	2.7	5
71	Selenium nanoparticles ameliorate Brassica napus L. cadmium toxicity by inhibiting the respiratory burst and scavenging reactive oxygen species. Journal of Hazardous Materials, 2021, 417, 125900.	6.5	70
72	Multiple effects of silicon on alleviation of arsenic and cadmium toxicity in hyperaccumulator Isatis cappadocica Desv.. Plant Physiology and Biochemistry, 2021, 168, 177-187.	2.8	10
73	Interactive effects of gibberellic acid and NPK on morpho-physio-biochemical traits and organic acid exudation pattern in coriander (Coriandrum sativum L.) grown in soil artificially spiked with boron. Plant Physiology and Biochemistry, 2021, 167, 884-900.	2.8	41
74	Effects of silicon on heavy metal uptake at the soil-plant interphase: A review. Ecotoxicology and Environmental Safety, 2021, 222, 112510.	2.9	122

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75	Effect of soil sulfamethoxazole on strawberry (Fragaria ananassa): Growth, health risks and silicon mitigation. Environmental Pollution, 2021, 286, 117321.	3.7	9
76	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.	2.9	19
77	Effects and mechanisms of Cd remediation with zeolite in brown rice (Oryza sativa). Ecotoxicology and Environmental Safety, 2021, 226, 112813.	2.9	5
78	Application of boron reduces vanadium toxicity by altering the subcellular distribution of vanadium, enhancing boron uptake and enhancing the antioxidant defense system of watermelon. Ecotoxicology and Environmental Safety, 2021, 226, 112828.	2.9	11
79	Arsenic contamination, impact and mitigation strategies in rice agro-environment: An inclusive insight. Science of the Total Environment, 2021, 800, 149477.	3.9	47
80	Molecular and biochemical mechanisms underlying boron-induced alleviation of cadmium toxicity in rice seedlings. Ecotoxicology and Environmental Safety, 2021, 225, 112776.	2.9	8
81	Transcriptome profiles reveal the protective role of seed coating with zinc against boron toxicity in maize (Zea mays L.). Journal of Hazardous Materials, 2022, 423, 127105.	6.5	4
82	Comparative transcriptomics provide new insights into the mechanisms by which foliar silicon alleviates the effects of cadmium exposure in rice. Journal of Environmental Sciences, 2022, 115, 294-307.	3.2	15
83	Foliar application of silica sol alleviates boron toxicity in rice (Oryza sativa) seedlings. Journal of Hazardous Materials, 2022, 423, 127175.	6.5	18
84	Lowered Cd toxicity, uptake and expression of metal transporter genes in maize plant by ACC deaminase-producing bacteria Achromobacter sp.. Journal of Hazardous Materials, 2022, 423, 127036.	6.5	29
85	A 3-year field study on lead immobilisation in paddy soil by a novel active silicate amendment. Environmental Pollution, 2022, 292, 118325.	3.7	3
86	Effect of biosorptive removal of cadmium ions from hydroponic solution containing indigenous garlic peel and mercerized garlic peel on lettuce productivity. Scientia Horticulturae, 2022, 293, 110727.	1.7	40
87	Effect of cadmium and zinc in soil on the tissue-organ level of spring barley. IOP Conference Series: Earth and Environmental Science, 2021, 862, 012050.	0.2	1
88	Foliar spray with rutin improves cadmium remediation efficiency excellently by enhancing antioxidation and phytochelatin detoxification of Amaranthus hypochondriacus. International Journal of Phytoremediation, 2022, 24, 1060-1070.	1.7	6
89	Selenium alleviates toxicity in Amaranthus hypochondriacus by modulating the synthesis of thiol compounds and the subcellular distribution of cadmium. Chemosphere, 2022, 291, 133108.	4.2	19
90	Genome-wide identification of Gramineae histone modification genes and their potential roles in regulating wheat and maize growth and stress responses. BMC Plant Biology, 2021, 21, 543.	1.6	8
91	Multifaceted roles of silicon in mitigating environmental stresses in plants. Plant Physiology and Biochemistry, 2021, 169, 291-310.	2.8	35
92	Biochar and nitrogen fertilizer increase Glomus synergism and abundance and promote Trifolium pratense growth while inhibiting pollutant accumulation. Ecological Indicators, 2021, 133, 108377.	2.6	5

#	Article	IF	Citations
93	Priming of rice defense against a sap-sucking insect pest brown planthopper by silicon. Journal of Pest Science, 2022, 95, 1371-1385.	1.9	7
94	Lead, zinc tolerance mechanism and phytoremediation potential of Alcea rosea (Linn.) Cavan. and Hydrangea macrophylla (Thunb.) Ser. and ethylenediaminetetraacetic acid effect. Environmental Science and Pollution Research, 2022, 29, 41329-41343.	2.7	9
95	Comparison Studies on Several Ligands Used in Determination of Cd(II) in Rice by Flame Atomic Absorption Spectrometry after Ultrasound-Assisted Dispersive Liquidâ€“Liquid Microextraction. Molecules, 2022, 27, 590.	1.7	4
96	Metabolomic and antioxidant enzyme activity changes in response to cadmium stress under boron application of wheat (Triticum aestivum). Environmental Science and Pollution Research, 2022, 29, 34701-34713.	2.7	17
97	Cadmium transfer between maize and soybean plants via common mycorrhizal networks. Ecotoxicology and Environmental Safety, 2022, 232, 113273.	2.9	7
98	Alleviation of Cadmium Stress in Wheat through the Combined Application of Boron and Biochar via Regulating Morpho-Physiological and Antioxidant Defense Mechanisms. Agronomy, 2022, 12, 434.	1.3	12
99	Silicon reduces the uptake of cadmium in hydroponically grown rice seedlings: why nanoscale silica is more effective than silicate. Environmental Science: Nano, 2022, 9, 1961-1973.	2.2	20
100	Magnesium slag for remediation of cadmiumâ€•and arsenicâ€contaminated paddy soil: A field study. Soil Use and Management, 2022, 38, 1470-1480.	2.6	16
101	Boron-mediated amelioration of copper-toxicity in sweet orange [Citrus sinensis (L.) Osbeck cv. Xuegan] seedlings involved reduced damage to roots and improved nutrition and water status. Ecotoxicology and Environmental Safety, 2022, 234, 113423.	2.9	13
102	Non-Essential Elements and Their Role in Sustainable Agriculture. Agronomy, 2022, 12, 888.	1.3	11
103	Boron supplying alters cadmium retention in root cell walls and glutathione content in Capsicum annuum. Journal of Hazardous Materials, 2022, 432, 128713.	6.5	19
104	Potential role of L-glutamic acid in mitigating cadmium toxicity in lentil (Lens culinaris Medik.) through modulating the antioxidant defence system and nutrient homeostasis. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 2021, 49, 12485.	0.5	4
105	Citrus Physiological and Molecular Response to Boron Stresses. Plants, 2022, 11, 40.	1.6	27
106	Nanosilica-mediated plant growth and environmental stress tolerance in plants: mechanisms of action. , 2022, , 325-337.		4
107	Differential responses of polysaccharides and antioxidant enzymes in alleviating cadmium toxicity of tuber traditional Chinese medicinal materials. Environmental Science and Pollution Research, 2022, 29, 60832-60842.	2.7	7
108	Exogenous melatonin mitigates cadmium toxicity through ascorbic acid and glutathione pathway in wheat. Ecotoxicology and Environmental Safety, 2022, 237, 113533.	2.9	18
110	WRKY74 regulates cadmium tolerance through glutathione-dependent pathway in wheat. Environmental Science and Pollution Research, 2022, 29, 68191-68201.	2.7	7
111	Effects of soil amendments, foliar sprayings of silicon and selenium and their combinations on the reduction of cadmium accumulation in rice. Pedosphere, 2022, 32, 649-659.	2.1	8

#	Article	IF	Citations
112	Silicon- and Boron-Induced Physio-Biochemical Alteration and Organic Acid Regulation Mitigates Aluminum Phytotoxicity in Date Palm Seedlings. Antioxidants, 2022, 11, 1063.	2.2	7
113	Silicon Enhances Morphoâ€“Physioâ€“Biochemical Responses in Arsenic Stressed Spinach (Spinacia) Tj ETQq1 1 0.784314 rgBT /Over	2.8	21
114	Silicon-mediated metabolic upregulation of ascorbate glutathione (AsA-GSH) and glyoxalase reduces the toxic effects of vanadium in rice. Journal of Hazardous Materials, 2022, 436, 129145.	6.5	13
115	Iminodisuccinic Acid Relieved Cadmium Stress in Rapeseed Leaf by Affecting Cadmium Distribution and Cadmium Chelation with Pectin. Adsorption Science and Technology, 2022, 2022, .	1.5	3
116	Micronutrient seed priming: new insights in ameliorating heavy metal stress. Environmental Science and Pollution Research, 2022, 29, 58590-58606.	2.7	5
117	Research Progress of Soil Microorganisms in Response to Heavy Metals in Rice. Journal of Agricultural and Food Chemistry, 2022, 70, 8513-8522.	2.4	20
118	Plant growth and heavy meal accumulation characteristics of Spathiphyllum kochii cultured in three soil extractions with and without silicate supplementation. International Journal of Phytoremediation, 2023, 25, 524-537.	1.7	4
119	Simultaneous reduction of available arsenic and cadmium in contaminated soil by iron-modified fly ash. Chemistry and Ecology, 2022, 38, 602-616.	0.6	2
120	Effect of boron on cadmium uptake and expression of Cd transport genes at different growth stages of wheat (Triticum aestivum L.). Ecotoxicology and Environmental Safety, 2022, 241, 113834.	2.9	4
121	Solution chemistry mechanisms of exogenous silicon influencing the speciation and bioavailability of cadmium in alkaline paddy soil. Journal of Hazardous Materials, 2022, 438, 129526.	6.5	12
122	Nano-silicon mediated alleviation of Cd toxicity by cell wall adsorption and antioxidant defense system in rice seedlings. Plant and Soil, 2023, 486, 103-117.	1.8	15
123	Selenium alleviates cadmium-induced stress in durum wheat (Triticum durum) by enhancing the accumulation of cadmium in the roots and by modulating of photosynthesis parameters. Journal of Plant Nutrition, 2023, 46, 1903-1919.	0.9	1
124	Biochar improves the adaptability ofVicia fabaL in cadmium contaminated soil. Soil and Sediment Contamination, 2023, 32, 496-517.	1.1	3
125	Mitigation of Cadmium Toxicity in Edible Rape (Brassica rapa L.) by Combined Application of Chitosan and Silicon. Journal of Plant Growth Regulation, 2023, 42, 2857-2866.	2.8	3
126	Combined effects of hydrothermally-altered feldspar and water regime on cadmium minimization in rice. Environmental Research, 2022, 215, 114259.	3.7	0
127	Soil applied silicon and manganese combined with foliar application of 5-aminolevulinic acid mediate photosynthetic recovery in Cd-stressed Salvia miltiorrhiza by regulating Cd-transporter genes. Frontiers in Plant Science, 0, 13, .	1.7	5
128	Short-term responses of Spinach (Spinacia oleracea L.) to the individual and combinatorial effects of Nitrogen, Phosphorus and Potassium and silicon in the soil contaminated by boron. Frontiers in Plant Science, 0, 13, .	1.7	33
129	Regulation of rhizosphere microenvironment by rice husk ash for reducing the accumulation of cadmium and arsenic in rice. Journal of Environmental Sciences, 2024, 136, 1-10.	3.2	1

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130	Under cadmium stress, silicon has a defensive effect on the morphology, physiology, and anatomy of pea (Pisum sativum L.) plants. Frontiers in Plant Science, 0, 13, .	1.7	10
131	Exopolysaccharides from Lactobacillus plantarum reduces cadmium uptake and mitigates cadmium toxicity in rice seedlings. World Journal of Microbiology and Biotechnology, 2022, 38, .	1.7	3
132	Silicon actively mitigates the negative impacts of soil cadmium contamination on garlic growth, yield, quality and edible safety. Scientia Horticulturae, 2023, 309, 111625.	1.7	7
133	Beneficial Effects of Supplementation Silicon on the Plant Under Abiotic and Biotic Stress. Silicon, 0, , .	1.8	2
134	Different nanobubbles mitigate cadmium toxicity and accumulation of rice (Oryza sativa L.) seedlings in hydroponic cultures. Chemosphere, 2023, 312, 137250.	4.2	3
135	The role of nickel in cadmium accumulation in rice. Science of the Total Environment, 2023, 859, 160421.	3.9	3
136	Selenium and molybdenum synergistically alleviate chromium toxicity by modulating Cr uptake and subcellular distribution in Nicotiana tabacum L.. Ecotoxicology and Environmental Safety, 2022, 248, 114312.	2.9	8
137	Investigating the role of silicon in reducing the risk of arsenic, cadmium, drought and salinity stresses in wheat (Triticum aestivum L.). Journal of Crop Science and Biotechnology, 2023, 26, 387-404.	0.7	3
138	OsGLP participates in the regulation of lignin synthesis and deposition in rice against copper and cadmium toxicity. Frontiers in Plant Science, 0, 13, .	1.7	3
139	Differences in the response mechanism of cadmium uptake, transfer, and accumulation of different rice varieties after foliar silicon spraying under cadmium-stressed soil. Frontiers in Plant Science, 0, 13, .	1.7	2
140	Reduction of Cd Uptake in Rice (Oryza sativa) Grain Using Different Field Management Practices in Alkaline Soils. Foods, 2023, 12, 314.	1.9	2
141	Interaction between Boron and Other Elements in Plants. Genes, 2023, 14, 130.	1.0	10
142	Silicon-mediated regulation of cadmium transport and activation of antioxidant defense system enhances Pennisetum glaucum resistance to cadmium stress. Plant Physiology and Biochemistry, 2023, 195, 206-213.	2.8	1
143	Exogenous silicon promotes cadmium (Cd) accumulation in Sedum alfredii Hance by enhancing Cd uptake and alleviating Cd toxicity. Frontiers in Plant Science, 0, 14, .	1.7	3
144	Morphological and Physiological Indicators and Transcriptome Analyses Reveal the Mechanism of Selenium Multilevel Mitigation of Cadmium Damage in Brassica juncea. Plants, 2023, 12, 1583.	1.6	4
145	Differential behaviour of four genotypes of Andrographis paniculata (Burm.f.) Nees toward combined toxicity of As, Cd, and Pb: An ionomics and metabolic interpretation. Journal of Hazardous Materials Advances, 2023, 10, 100274.	1.2	0
146	Effect of natural soil nanocolloids on the fate and toxicity of cadmium to rice (Oryza sativa L.) roots. Science of the Total Environment, 2023, 879, 162887.	3.9	0
147	Integrated physio-biochemical and transcriptomic analysis revealed mechanism underlying of Si-mediated alleviation to cadmium toxicity in wheat. Journal of Hazardous Materials, 2023, 452, 131366.	6.5	22

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148	Metabolomics and transcriptomics reveal the toxic mechanism of Cd and nano TiO2 coexposure on rice (Oryza sativa L.). Journal of Hazardous Materials, 2023, 453, 131411.	6.5	7
149	The overexpression of LOW PHOSPHATE ROOT 1 (LPR1) negatively regulates Arabidopsis growth in response to Cadmium (Cd) stress. Plant Physiology and Biochemistry, 2023, 196, 556-566.	2.8	5
150	Dopamine confers cadmium tolerance in apples by improving growth, reducing reactive oxygen species, and changing secondary metabolite levels. Environmental and Experimental Botany, 2023, 208, 105264.	2.0	5
151	Response of Oxidative Stress and Antioxidant System in Pea Plants Exposed to Drought and Boron Nanoparticles. Antioxidants, 2023, 12, 528.	2.2	6
152	Bor ve ArÄ±tma Ã‡amur UygulamalarÄ±nÄ±n BÃ¶rÃ¼lcenin (Vigna unguiculata L.) Mikro Element ve AÄŸÄ±r Metal Ä°Ã§eriÄŸine Etkisi. Journal of the Institute of Science and Technology, 0, , 684-699.	0.3	0
153	Insight into the physiological and biochemical mechanisms of biostimulating effect of Ascophyllum nodosum and Moringa oleifera extracts to minimize cadmium-induced oxidative stress in rice. Environmental Science and Pollution Research, 2023, 30, 55298-55313.	2.7	4
154	Physiological, transcriptome and gene functional analysis provide novel sights into cadmium accumulation and tolerance mechanisms in kenaf. Journal of Environmental Sciences, 2024, 137, 500-514.	3.2	1
155	Interaction of Lead and Cadmium Reduced Cadmium Toxicity in Ficus parvifolia Seedlings. Toxics, 2023, 11, 271.	1.6	3
156	Reducing Chromium Toxicity in Chinese Cabbage through Synergistic Effects of Silicon and Selenium: A Study of Plant Growth, Chromium Content, and Biochemical Parameters. Sustainability, 2023, 15, 5361.	1.6	3
157	The mechanism of silicon on alleviating cadmium toxicity in plants: A review. Frontiers in Plant Science, 0, 14, .	1.7	10
158	Application of Silicon and Selenium in Rice for Reducing Cadmium Stress. Phyton, 2023, 92, 1873-1886.	0.4	1
159	Qualitative and quantitative analysis for Cd2+ removal mechanisms by biochar composites from co-pyrolysis of corn straw and fly ash. Chemosphere, 2023, 330, 138701.	4.2	4
160	Application of ferromanganese functionalized biochar simultaneously reduces Cd and Pb uptake of wheat in contaminated alkaline soils. Ecotoxicology and Environmental Safety, 2023, 257, 114930.	2.9	7
161	Effect of boron supply on the uptake and translocation of cadmium in Capsicum annuum. Ecotoxicology and Environmental Safety, 2023, 257, 114925.	2.9	3
170	Silicon nanoparticleâ€“mediated metal stress tolerance in crop plants. , 2023, , 321-351.		0
186	The management of Cd in rice with biochar and selenium: effects, efficiency, and practices. , 2023, 2, .		1
201	Speciation, Mobilization, and Toxicity of Cadmium in Soilâ€“Microbeâ€“Plant System: An Overview. , 2024, , 31-61.		0