Muhammad Ahsan Farooq

List of Publications by Year
in descending order

56 papers	3,889 citations	117625 34 h-index	175258 52 g-index
57 all docs	57 docs citations	57 times ranked	3610 citing authors

#	Article	IF	Citations
1	Chromium-induced physio-chemical and ultrastructural changes in four cultivars of Brassica napus L.. Chemosphere, 2015, 120, 154-164.	8.2	305
2	Alleviation of cadmium toxicity by silicon is related to elevated photosynthesis, antioxidant enzymes; suppressed cadmium uptake and oxidative stress in cotton. Ecotoxicology and Environmental Safety, 2013, 96, 242-249.	6.0	301
3	Potential impact of the herbicide 2,4-dichlorophenoxyacetic acid on human and ecosystems. Environment International, 2018, 111, 332-351.	10.0	268
4	Arsenic toxicity in plants: Cellular and molecular mechanisms of its transport and metabolism. Environmental and Experimental Botany, 2016, 132, 42-52.	4.2	213
5	The influence of silicon on barley growth, photosynthesis and ultra-structure under chromium stress. Ecotoxicology and Environmental Safety, 2013, 89, 66-72.	6.0	194
6	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
7	Methyl Jasmonate Regulates Antioxidant Defense and Suppresses Arsenic Uptake in Brassica napus L.. Frontiers in Plant Science, 2016, 7, 468.	3.6	156
8	Regulation of Cadmium-Induced Proteomic and Metabolic Changes by 5-Aminolevulinic Acid in Leaves of Brassica napus L.. PLoS ONE, 2015, 10, e0123328.	2.5	130
9	Silicon (Si) alleviates cotton (Gossypium hirsutum L.) from zinc (Zn) toxicity stress by limiting Zn uptake and oxidative damage. Environmental Science and Pollution Research, 2015, 22, 3441-3450.	5.3	112
10	Differential subcellular distribution and chemical forms of cadmium and copper in Brassica napus. Ecotoxicology and Environmental Safety, 2016, 134, 239-249.	6.0	104
11	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
12	Physiological and molecular analyses of black and yellow seeded Brassica napus regulated by 5-aminolivulinic acid under chromium stress. Plant Physiology and Biochemistry, 2015, 94, 130-143.	5.8	92
13	Hydrogen sulfide ameliorates lead-induced morphological, photosynthetic, oxidative damages and biochemical changes in cotton. Environmental Science and Pollution Research, 2014, 21, 717-731.	5.3	79
14	Role of exogenous salicylic acid in regulating physio-morphic and molecular changes under chromium toxicity in black- and yellow- seeded Brassica napus L.. Environmental Science and Pollution Research, 2016, 23, 20483-20496.	5.3	79
15	Seed priming improves chilling tolerance in chickpea by modulating germination metabolism, trehalose accumulation and carbon assimilation. Plant Physiology and Biochemistry, 2017, 111, 274-283.	5.8	77
16	Glycine betaine-induced lead toxicity tolerance related to elevated photosynthesis, antioxidant enzymes suppressed lead uptake and oxidative stress in cotton. Turkish Journal of Botany, 2014, 38, 281-292.	1.2	76
17	Priming-induced antioxidative responses in two wheat cultivars under saline stress. Acta Physiologiae Plantarum, 2015, 37, 1.	2.1	75
18	Subcellular distribution, modulation of antioxidant and stress-related genes response to arsenic in Brassica napus L.. Ecotoxicology, 2016, 25, 350-366.	2.4	74

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19	Oxidative injury and antioxidant enzymes regulation in arsenic-exposed seedlings of four Brassica napus L. cultivars. Environmental Science and Pollution Research, 2015, 22, 10699-10712.	5.3	73
20	Comparative transcriptome profiling of two Brassica napus cultivars under chromium toxicity and its alleviation by reduced glutathione. BMC Genomics, 2016, 17, 885.	2.8	69
21	Methyl jasmonate alleviates arsenic-induced oxidative damage and modulates the ascorbateâ€“glutathione cycle in oilseed rape roots. Plant Growth Regulation, 2018, 84, 135-148.	3.4	68
22	Comparative metabolomic responses of low- and high-cadmium accumulating genotypes reveal the cadmium adaptive mechanism in Brassica napus. Chemosphere, 2020, 250, 126308.	8.2	68
23	Alleviation of chromium toxicity by hydrogen sulfide in barley. Environmental Toxicology and Chemistry, 2013, 32, 2234-2239.	4.3	67
24	Interactive effects of cadmium and copper on metal accumulation, oxidative stress, and mineral composition in Brassica napus. International Journal of Environmental Science and Technology, 2016, 13, 2163-2174.	3.5	64
25	Effect of chromium and nitrogen form on photosynthesis and anti-oxidative system in barley. Biologia Plantarum, 2013, 57, 758-763.	1.9	62
26	Toxicological effects of bisphenol A on growth and antioxidant defense system in Oryza sativa as revealed by ultrastructure analysis. Ecotoxicology and Environmental Safety, 2016, 124, 277-284.	6.0	62
27	2,4-D attenuates salinity-induced toxicity by mediating anatomical changes, antioxidant capacity and cation transporters in the roots of rice cultivars. Scientific Reports, 2017, 7, 10443.	3.3	57
28	Melatonin induced changes in photosynthetic efficiency as probed by OJIP associated with improved chromium stress tolerance in canola (Brassica napus L.). Heliyon, 2020, 6, e04364.	3.2	55
29	Combined herbicide and saline stress differentially modulates hormonal regulation and antioxidant defense system in Oryza sativa cultivars. Plant Physiology and Biochemistry, 2016, 107, 82-95.	5.8	54
30	Physiological and biochemical mechanisms of silicon-induced copper stress tolerance in cotton (Gossypium hirsutum L.). Acta Physiologiae Plantarum, 2016, 38, 1.	2.1	50
31	Mitigation effects of exogenous melatonin-selenium nanoparticles on arsenic-induced stress in Brassica napus. Environmental Pollution, 2022, 292, 118473.	7.5	48
32	OsPEX11, a Peroxisomal Biogenesis Factor 11, Contributes to Salt Stress Tolerance in Oryza sativa. Frontiers in Plant Science, 2016, 7, 1357.	3.6	44
33	Hydrogen sulfide alleviates the aluminum-induced changes in Brassica napus as revealed by physiochemical and ultrastructural study of plant. Environmental Science and Pollution Research, 2015, 22, 3068-3081.	5.3	42
34	Ecotoxicological and Interactive Effects of Copper and Chromium on Physiochemical, Ultrastructural, and Molecular Profiling in Brassica napus L.. BioMed Research International, 2018, 2018, 1-17.	1.9	40
35	Sesame. , 2016, , 135-147.		36
36	Exogenous melatonin regulates chromium stress-induced feedback inhibition of photosynthesis and antioxidative protection in Brassica napus cultivars. Plant Cell Reports, 2021, 40, 2063-2080.	5.6	31

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37	Comprehensive proteomic analysis of arsenic induced toxicity reveals the mechanism of multilevel coordination of efficient defense and energy metabolism in two Brassica napus cultivars. Ecotoxicology and Environmental Safety, 2021, 208, 111744.	6.0	27
38	Physiological and iTRAQâ€Based Quantitative Proteomics Analysis of Methyl Jasmonateâ€“Induced Tolerance in Brassica napus Under Arsenic Stress. Proteomics, 2018, 18, e1700290.	2.2	26
39	Salinity reduces 2,4-D efficacy in Echinochloa crusgalli by affecting redox balance, nutrient acquisition, and hormonal regulation. Protoplasma, 2018, 255, 785-802.	2.1	26
40	Drought tolerance in<scp>Brassica napus</scp>is accompanied withÂenhanced antioxidative protection, photosynthetic andÂhormonal regulation at seedling stage. Physiologia Plantarum, 2021, 172, 1133-1148.	5.2	25
41	Synergistic effects of chromium and copper on photosynthetic inhibition, subcellular distribution, and related gene expression in Brassica napus cultivars. Environmental Science and Pollution Research, 2019, 26, 11827-11845.	5.3	24
42	Organic and inorganic amendments for the remediation of nickel contaminated soil and its improvement on Brassica napus growth and oxidative defense. Journal of Hazardous Materials, 2021, 416, 125921.	12.4	22
43	Ursolic Acid Limits Salt-Induced Oxidative Damage by Interfering With Nitric Oxide Production and Oxidative Defense Machinery in Rice. Frontiers in Plant Science, 2020, 11, 697.	3.6	20
44	Interactive effects of biochar and mussel shell activated concoctions on immobilization of nickel and their amelioration on the growth of rapeseed in contaminated aged soil. Chemosphere, 2021, 282, 130897.	8.2	20
45	Butachlorâ€Induced Alterations in Ultrastructure, Antioxidant, and Stressâ€Responsive Gene Regulations in Rice Cultivars. Clean - Soil, Air, Water, 2017, 45, 1500851.	1.1	18
46	Rice Responses and Tolerance to Salt Stress. , 2019, , 791-819.		17
47	Challenges and prospects for a potential allohexaploid Brassica crop. Theoretical and Applied Genetics, 2021, 134, 2711-2726.	3.6	15
48	The potential of nanomaterials for sustainable modern agriculture: present findings and future perspectives. Environmental Science: Nano, 2022, 9, 1926-1951.	4.3	13
49	Endogenous nitric oxide contributes to chloride and sulphate salinity tolerance by modulation of ion transporter expression and reestablishment of redox balance in Brassica napus cultivars. Environmental and Experimental Botany, 2022, 194, 104734.	4.2	12
50	Breeding Oil Crops for Sustainable Production: Heavy Metal Tolerance. , 2016, , 19-31.		7
51	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
52	Chlorophyll fluorescence, ion uptake, and osmoregulation are potential indicators for detecting ecotypic variation in salt tolerance of Panicum antidotale Retz*. Arid Land Research and Management, 2022, 36, 84-108.	1.6	4
53	Photosynthetic acclamatory response of Panicum antidotale Retz. populations to root zone desiccation stress. Brazilian Journal of Biology, 2021, 84, e252735.	0.9	4
54	Copper-Induced Responses in Different Plant Species. , 2021, , 259-280.		3

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55	Effects of exogenously applied melatonin on growth, photosynthesis, ion accumulation and antioxidant capacity of canola (Brassica napus L.) under chromium stress. Pakistan Journal of Botany, 2021, 53, .	0.5	2
56	Differential responses of exogenous melatonin on growth, photosynthesis and antioxidant defence system in two Brassica napus L.cultivars under chromium stress. International Journal of Environment Agriculture and Biotechnology, 2020, 5, 397-411.	0.1	2