Basharat Ali

List of Publications by Year
in descending order

98 papers	6,392 citations	57758 44 h-index	71685 76 g-index
104 all docs	104 docs citations	104 times ranked	4890 citing authors

#	Article	IF	Citations
1	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
2	Chromium-induced physio-chemical and ultrastructural changes in four cultivars of Brassica napus L.. Chemosphere, 2015, 120, 154-164.	8.2	305
3	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
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	Plant growth promoting bacteria confer salt tolerance in Vigna radiata by up-regulating antioxidant defense and biological soil fertility. Plant Growth Regulation, 2016, 80, 23-36.	3.4	202
6	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
7	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
8	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
9	5-Aminolevulinic Acid Ameliorates the Growth, Photosynthetic Gas Exchange Capacity, and Ultrastructural Changes Under Cadmium Stress in Brassica napus L.. Journal of Plant Growth Regulation, 2013, 32, 604-614.	5.1	165
10	Methyl Jasmonate Regulates Antioxidant Defense and Suppresses Arsenic Uptake in Brassica napus L.. Frontiers in Plant Science, 2016, 7, 468.	3.6	156
11	Cadmium phytoavailability to rice (Oryza sativa L.) grown in representative Chinese soils. A model to improve soil environmental quality guidelines for food safety. Ecotoxicology and Environmental Safety, 2014, 103, 101-107.	6.0	147
12	Physiological and ultra-structural changes in Brassica napus seedlings induced by cadmium stress. Biologia Plantarum, 2014, 58, 131-138.	1.9	143
13	Selenium mitigates the chromium toxicity in Brassicca napus L. by ameliorating nutrients uptake, amino acids metabolism and antioxidant defense system. Plant Physiology and Biochemistry, 2019, 145, 142-152.	5.8	139
14	5-Aminolevolinic acid mitigates the cadmium-induced changes in Brassica napus as revealed by the biochemical and ultra-structural evaluation of roots. Ecotoxicology and Environmental Safety, 2013, 92, 271-280.	6.0	134
15	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
16	Hydrogen sulfide alleviates cadmium-induced morpho-physiological and ultrastructural changes in Brassica napus. Ecotoxicology and Environmental Safety, 2014, 110, 197-207.	6.0	124
17	Promotive role of 5-aminolevulinic acid on mineral nutrients and antioxidative defense system under lead toxicity in Brassica napus. Industrial Crops and Products, 2014, 52, 617-626.	5.2	119
18	Differential subcellular distribution and chemical forms of cadmium and copper in Brassica napus. Ecotoxicology and Environmental Safety, 2016, 134, 239-249.	6.0	104

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19	5-Aminolevulinic acid ameliorates cadmium-induced morphological, biochemical, and ultrastructural changes in seedlings of oilseed rape. Environmental Science and Pollution Research, 2013, 20, 7256-7267.	5.3	97
20	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
21	Hydrogen sulfide alleviates lead-induced photosynthetic and ultrastructural changes in oilseed rape. Ecotoxicology and Environmental Safety, 2014, 102, 25-33.	6.0	85
22	Improvement of element uptake and antioxidative defense in Brassica napus under lead stress by application of hydrogen sulfide. Plant Growth Regulation, 2014, 74, 261-273.	3.4	82
23	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
24	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
25	Protective mechanisms of melatonin against selenium toxicity in Brassica napus: insights into physiological traits, thiol biosynthesis and antioxidant machinery. BMC Plant Biology, 2019, 19, 507.	3.6	79
26	Dual behavior of selenium: Insights into physio-biochemical, anatomical and molecular analyses of four Brassica napus cultivars. Chemosphere, 2019, 225, 329-341.	8.2	78
27	Priming-induced antioxidative responses in two wheat cultivars under saline stress. Acta Physiologiae Plantarum, 2015, 37, 1.	2.1	75
28	Role of Microorganisms in the Remediation of Wastewater in Floating Treatment Wetlands: A Review. Sustainability, 2020, 12, 5559.	3.2	75
29	Subcellular distribution, modulation of antioxidant and stress-related genes response to arsenic in Brassica napus L.. Ecotoxicology, 2016, 25, 350-366.	2.4	74
30	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
31	Ultrastructural, metabolic and proteomic changes in leaves of upland cotton in response to cadmium stress. Chemosphere, 2015, 120, 309-320.	8.2	73
32	Salicylic acid mediates antioxidant defense system and ABA pathway related gene expression in Oryza sativa against quinclorac toxicity. Ecotoxicology and Environmental Safety, 2016, 133, 146-156.	6.0	73
33	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
34	Recent progress in understanding salinity tolerance in plants: Story of Na+/K+ balance and beyond. Plant Physiology and Biochemistry, 2021, 160, 239-256.	5.8	70
35	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
36	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

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37	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
38	Approaches in Enhancing Thermotolerance in Plants: An Updated Review. Journal of Plant Growth Regulation, 2020, 39, 456-480.	5.1	67
39	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
40	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
41	Lead Toxicity in Cereals: Mechanistic Insight Into Toxicity, Mode of Action, and Management. Frontiers in Plant Science, 2020, 11, 587785.	3.6	64
42	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
43	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
44	Genotypic variation of the responses to chromium toxicity in four oilseed rape cultivars. Biologia Plantarum, 2014, 58, 539-550.	1.9	48
45	Effects of Hydrogen Sulfide on Growth, Antioxidative Capacity, and Ultrastructural Changes in Oilseed Rape Seedlings Under Aluminum Toxicity. Journal of Plant Growth Regulation, 2014, 33, 526-538.	5.1	43
46	Silicon and water-deficit stress differentially modulate physiology and ultrastructure in wheat (Triticum aestivum L.). 3 Biotech, 2017, 7, 273.	2.2	43
47	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
48	Reduced Glutathione Mediates Pheno-Ultrastructure, Kinome and Transportome in Chromium-Induced Brassica napus L.. Frontiers in Plant Science, 2017, 8, 2037.	3.6	42
49	Alleviation of Lead Toxicity by 5-Aminolevulinic Acid Is Related to Elevated Growth, Photosynthesis, and Suppressed Ultrastructural Damages in Oilseed Rape. BioMed Research International, 2014, 2014, 1-11.	1.9	41
50	Complementary RNA-Sequencing Based Transcriptomics and iTRAQ Proteomics Reveal the Mechanism of the Alleviation of Quinclorac Stress by Salicylic Acid in Oryza sativa ssp. japonica. International Journal of Molecular Sciences, 2017, 18, 1975.	4.1	41
51	Alleviation of lead-induced physiological, metabolic, and ultramorphological changes in leaves of upland cotton through glutathione. Environmental Science and Pollution Research, 2016, 23, 8431-8440.	5.3	38
52	Physiological and Biochemical Bases of Foliar Silicon-Induced Alleviation of Cadmium Toxicity in Wheat. Journal of Soil Science and Plant Nutrition, 2020, 20, 2714-2730.	3.4	37
53	Sesame. , 2016, , 135-147.		36
54	Ethylenediurea (EDU) mitigates the negative effects of ozone in rice: Insights into its mode of action. Plant, Cell and Environment, 2018, 41, 2882-2898.	5.7	36

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55	Morpho-Physio-Biochemical and Molecular Responses of Maize Hybrids to Salinity and Waterlogging during Stress and Recovery Phase. Plants, 2021, 10, 1345.	3.5	36
56	Coordination Complexes of Manganese and Their Biomedical Applications. ChemistrySelect, 2017, 2, 1586-1604.	1.5	35
57	Synergism of herbicide toxicity by 5-aminolevulinic acid is related to physiological and ultra-structural disorders in crickweed (Malachium aquaticum L.). Pesticide Biochemistry and Physiology, 2015, 125, 53-61.	3.6	33
58	Responses of contrasting rice genotypes to excess manganese and their implications for lignin synthesis. Plant Physiology and Biochemistry, 2018, 123, 252-259.	5.8	33
59	Cadmium-Induced Upregulation of Lipid Peroxidation and Reactive Oxygen Species Caused Physiological, Biochemical, and Ultrastructural Changes in Upland Cotton Seedlings. BioMed Research International, 2013, 2013, 1-10.	1.9	31
60	A zinc finger protein, interacted with cyclophilin, affects root development via IAA pathway in rice. Journal of Integrative Plant Biology, 2017, 59, 496-505.	8.5	30
61	Seed treatment with salicylic acid invokes defence mechanism of Helianthus annuus against Orobanche cumana. Annals of Applied Biology, 2016, 169, 408-422.	2.5	28
62	Enhanced ascorbate level improves multi-stress tolerance in a widely grown indica rice variety without compromising its agronomic characteristics. Journal of Plant Physiology, 2019, 240, 152998.	3.5	28
63	Influence of exogenous 5-aminolevulinic acid on chlorophyll synthesis and related gene expression in oilseed rape de-etiolated cotyledons under water-deficit stress. Photosynthetica, 2016, 54, 468-474.	1.7	27
64	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
65	The Role of Membrane Transporters in Plant Growth and Development, and Abiotic Stress Tolerance. International Journal of Molecular Sciences, 2021, 22, 12792.	4.1	26
66	Alleviating Role of Gibberellic Acid in Enhancing Plant Growth and Stimulating Phenolic Compounds in Carrot (Daucus carota L.) under Lead Stress. Sustainability, 2021, 13, 12329.	3.2	23
67	Influence of 5-aminolevulinic acid on photosynthetically related parameters and gene expression in Brassica napus L. under drought stress. Soil Science and Plant Nutrition, 2016, 62, 254-262.	1.9	22
68	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
69	Genetic analysis and fine mapping of the LOBED-LEAF 1 (BnLL1) gene in rapeseed (Brassica napus L.). Euphytica, 2015, 204, 29-38.	1.2	21
70	Exogenous Application of 5-Aminolevulinic Acid Promotes Coloration and Improves the Quality of Tomato Fruit by Regulating Carotenoid Metabolism. Frontiers in Plant Science, 2021, 12, 683868.	3.6	21
71	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
72	Temperature Extremes: Impact on Rice Growth and Development. , 2019, , 153-171.		19

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73	Differential Morphophysiological, Biochemical, and Molecular Responses of Maize Hybrids to Salinity and Alkalinity Stresses. Agronomy, 2021, 11, 1150.	3.0	19
74	Butachlorâ€Induced Alterations in Ultrastructure, Antioxidant, and Stressâ€Responsive Gene Regulations in Rice Cultivars. Clean - Soil, Air, Water, 2017, 45, 1500851.	1.1	18
75	Modeling Allometric Relationships in Leaves of Young Rapeseed (Brassica napus L.) Grown at Different Temperature Treatments. Frontiers in Plant Science, 2017, 8, 313.	3.6	13
76	5-Aminolevulinic acid alleviates herbicide-induced physiological and ultrastructural changes in Brassica napus. Journal of Integrative Agriculture, 2018, 17, 579-592.	3.5	13
77	Production and characterisation of tomato derived from interspecific hybridisation between cultivated tomato and its wild relatives. Journal of Horticultural Science and Biotechnology, 2020, 95, 506-520.	1.9	13
78	Evaluation of rice wild relatives as a source of traits for adaptation to iron toxicity and enhanced grain quality. PLoS ONE, 2020, 15, e0223086.	2.5	12
79	Editorial: Heavy Metal Toxicity in Plants: Recent Insights on Physiological and Molecular Aspects. Frontiers in Plant Science, 2021, 12, 830682.	3.6	10
80	Alleviation of Cadmium Toxicity by 5-Aminolevulinic Acid is related to Improved Nutrients Uptake and Lowered Oxidative Stress in Brassica napus. International Journal of Agriculture and Biology, 2016, 18, 557-564.	0.4	8
81	Breeding Oil Crops for Sustainable Production: Heavy Metal Tolerance. , 2016, , 19-31.		7
82	Exogenous application of glutamic acid promotes cucumber (Cucumis sativus L.) growth under salt stress conditions. Emirates Journal of Food and Agriculture, 0, , 407.	1.0	7
83	Seed priming to enhance salt and drought stress tolerance in plants: advances and prospects. , 2022, , 441-464.		6
84	Differential Physiological and Ultrastructural Responses of Cottonseeds under Pb Toxicity. Polish Journal of Environmental Studies, 0, 23, .	1.2	5
85	The influence of new herbicide ZJ0273 on the total- and branched-chain amino acids in oilseed rape (Brassica napus L.) leaves as revealed by near-infrared spectroscopy. Acta Physiologiae Plantarum, 2014, 36, 2149-2156.	2.1	5
86	Techniques in the synthesis of mononuclear manganese complexes: a review. Reviews in Inorganic Chemistry, 2017, 37, 105-130.	4.1	5
87	The Hormetic Effects of a Brassica Water Extract Triggered Wheat Growth and Antioxidative Defense under Drought Stress. Applied Sciences (Switzerland), 2022, 12, 4582.	2.5	5
88	Physiological Mechanism of Exogenous 5-Aminolevulinic Acid Improved the Tolerance of Chinese Cabbage (Brassica pekinensis L.) to Cadmium Stress. Frontiers in Plant Science, 2022, 13, .	3.6	5
89	Attenuation of cadmium induced oxidative stress in cucumber seedlings by modulating the photosynthesis and antioxidant machinery through foliar applied glutamic acid. Zahradnictvi (Prague,) Tj ETQq1 1 0.784314 rgBT /Ov		
90	Genome-wide identification of WRKY gene family and expression analysis under abiotic stresses in Andrographis paniculata. Biocell, 2021, 45, 1107-1119.	0.7	3

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91	Effect of Sourceâ€“Sink Ratio Manipulation on Growth, Flowering, and Yield Potential of Soybean. Agriculture (Switzerland), 2021, 11, 926.	3.1	3
92	Estimation of correlation and path coefficient for morphological and quality related traits in pea (Pisum sativum L.). Bangladesh Journal of Botany, 2020, 49, 549-555.	0.4	3
93	Improving thermotolerance in Gossypium hirsutum by using signalling and non-signalling molecules under glass house and field conditions. Industrial Crops and Products, 2021, 172, 113996.	5.2	2
94	Production and characterization of inter and intraspecific hybridization eggplant. Horticultura Brasileira, 2020, 38, 407-414.	0.5	2
95	Differential gene expression analysis of early-ripening mutants of grape (Vitis vinifera L.). Scientia Horticulturae, 2015, 194, 7-17.	3.6	1
96	Exogenously applied GA3 promotes plant growth in onion by reducing oxidative stress under saline conditions. Tarim Bilimleri Dergisi, 0, , .	0.4	1
97	COMPARATIVE EFFICACY OF SOME BOTANICAL EXTRACTS AND COMMERCIAL COATING MATERIALS FOR IMPROVING THE STORAGE LIFE AND MAINTAIN QUALITY OF KINNOW MANDARIN (CITRUS RETICULATA L.). Applied Ecology and Environmental Research, 2020, 18, 713-729.	0.5	1
98	DIFFERENTIAL GENE EXPRESSION ANALYSIS BETWEEN VITIS VINIFERA L. CULTIVAR 'YINHONG' AND ITS MUTANTS. Acta Horticulturae, 2015, , 51-60.	0.2	0