

Muhammad Arslan Ashraf

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,701
citations

304743

22
h-index

330143

37
g-index

55
all docs

55
docs citations

55
times ranked

1719
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in microbe-assisted reclamation of heavy metal contaminated soils over the last decade: A review. <i>Journal of Environmental Management</i> , 2017, 198, 132-143.	7.8	178
2	Alleviation of waterlogging stress in upland cotton (<i>Gossypium hirsutum</i> L.) by exogenous application of potassium in soil and as a foliar spray. <i>Crop and Pasture Science</i> , 2011, 62, 25.	1.5	101
3	Phenological application of selenium differentially improves growth, oxidative defense and ion homeostasis in maize under salinity stress. <i>Plant Physiology and Biochemistry</i> , 2018, 123, 268-280.	5.8	94
4	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.	12.4	66
5	Exogenously applied zinc and copper mitigate salinity effect in maize (<i>Zea mays</i> L.) by improving key physiological and biochemical attributes. <i>Environmental Science and Pollution Research</i> , 2018, 25, 23883-23896.	5.3	66
6	Exogenous application of silicon at the boot stage decreases accumulation of cadmium in wheat (<i>Triticum aestivum</i> L.) grains. <i>Revista Brasileira De Botanica</i> , 2015, 38, 223-234.	1.3	62
7	Hydrogen peroxide modulates antioxidant system and nutrient relation in maize (<i>Zea mays</i> L.) under water-deficit conditions. <i>Archives of Agronomy and Soil Science</i> , 2015, 61, 507-523.	2.6	58
8	Glycine betaine counteracts the inhibitory effects of waterlogging on growth, photosynthetic pigments, oxidative defence system, nutrient composition, and fruit quality in tomato. <i>Journal of Horticultural Science and Biotechnology</i> , 2018, 93, 385-391.	1.9	53
9	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.	3.5	53
10	Exogenous proline and glycinebetaine mitigate cadmium stress in two genetically different spring wheat (<i>Triticum aestivum</i> L.) cultivars. <i>Revista Brasileira De Botanica</i> , 2014, 37, 399-406.	1.3	52
11	Growth stage-based modulation in antioxidant defense system and proline accumulation in two hexaploid wheat (<i>Triticum aestivum</i> L.) cultivars differing in salinity tolerance. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2012, 207, 388-397.	1.2	51
12	Role of Ferrous Sulfate (FeSO ₄) in Resistance to Cadmium Stress in Two Rice (<i>Oryza sativa</i> L.) Genotypes. <i>Biomolecules</i> , 2020, 10, 1693.	4.0	51
13	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.	8.0	50
14	Waterlogging stress in plants: A review. <i>African Journal of Agricultural Research</i> Vol Pp, 2012, 7, .	0.5	49
15	Seed Pre-treatment with Polyhydroxy Fullerene Nanoparticles Confer Salt Tolerance in Wheat Through Upregulation of H ₂ O ₂ Neutralizing Enzymes and Phosphorus Uptake. <i>Journal of Soil Science and Plant Nutrition</i> , 2019, 19, 734-742.	3.4	46
16	Menadione sodium bisulphite mediated growth, secondary metabolism, nutrient uptake and oxidative defense in okra (<i>Abelmoschus esculentus</i> Moench) under cadmium stress. <i>Journal of Hazardous Materials</i> , 2018, 360, 604-614.	12.4	39
17	Fullerenol regulates oxidative stress and tissue ionic homeostasis in spring wheat to improve net-primary productivity under salt-stress. <i>Ecotoxicology and Environmental Safety</i> , 2021, 211, 111901.	6.0	37
18	Variations in morphological and physiological traits of wheat regulated by chromium species in long-term tannery effluent irrigated soils. <i>Chemosphere</i> , 2019, 222, 891-903.	8.2	33

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19	Choline Chloride Mediates Chromium Tolerance in Spinach (<i>Spinacia oleracea</i> L.) by Restricting its Uptake in Relation to Morpho-physio-biochemical Attributes. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 1594-1614.	5.1	32
20	Recent Advances in Abiotic Stress Tolerance of Plants Through Chemical Priming: An Overview. , 2018, , 51-79.		31
21	Taurine modulates dynamics of oxidative defense, secondary metabolism, and nutrient relation to mitigate boron and chromium toxicity in <i>Triticum aestivum</i> L. plants. <i>Environmental Science and Pollution Research</i> , 2022, 29, 45527-45548.	5.3	30
22	Foliar applied fullerol differentially improves salt tolerance in wheat through ion compartmentalization, osmotic adjustments and regulation of enzymatic antioxidants. <i>Physiology and Molecular Biology of Plants</i> , 2020, 26, 475-487.	3.1	28
23	Menadione sodium bisulfite alleviated chromium effects on wheat by regulating oxidative defense, chromium speciation, and ion homeostasis. <i>Environmental Science and Pollution Research</i> , 2021, 28, 36205-36225.	5.3	26
24	Alleviation of cadmium stress by silicon nanoparticles during different phenological stages of Ujala wheat variety. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	25
25	Exogenously applied 5-aminolevulinic acid modulates growth, secondary metabolism and oxidative defense in sunflower under water deficit stress. <i>Physiology and Molecular Biology of Plants</i> , 2020, 26, 489-499.	3.1	25
26	Response of Maize Seedlings to Cadmium Application after Different Time Intervals. , 2013, 2013, 1-9.		24
27	Growth stage-based modulation in physiological and biochemical attributes of two genetically diverse wheat (<i>Triticum aestivum</i> L.) cultivars grown in salinized hydroponic culture. <i>Environmental Science and Pollution Research</i> , 2016, 23, 6227-6243.	5.3	24
28	Does exogenous application of ascorbic acid modulate growth, photosynthetic pigments and oxidative defense in okra (<i>Abelmoschus esculentus</i> (L.) Moench) under lead stress?. <i>Acta Physiologiae Plantarum</i> , 2017, 39, 1.	2.1	24
29	Exogenous Silicon Modulates Growth, Physio-Chemicals and Antioxidants in Barley (<i>Hordeum vulgare</i>) Tj ETQq1 1 0.784314 rgBT /Overl	3.3	24
30	Silicon Enhances Morpho-Physio-Biochemical Responses in Arsenic Stressed Spinach (<i>Spinacia</i>) Tj ETQq0 0 0 rgBT /Overl	3.1	21
31	Effect of Metals or Trace Elements on Wheat Growth and Its Remediation in Contaminated Soil. <i>Journal of Plant Growth Regulation</i> , 2023, 42, 2258-2282.	5.1	21
32	Effect of Salt Stress on Different Growth and Biochemical Attributes in Two Canola (<i>Brassica) Tj ETQq0 0 0 rgBT /Overl	1.4	19
33	Silicon Application Modulates Growth, Physio-Chemicals, and Antioxidants in Wheat (<i>Triticum) Tj ETQq1 1 0.784314 rgBT /Overl	1.6	17
34	Promotion of Growth and Physiological Characteristics in Water-Stressed <i>Triticum aestivum</i> in Relation to Foliar-Application of Salicylic Acid. <i>Water (Switzerland)</i> , 2021, 13, 1316.	2.7	17
35	Taurine regulates ROS metabolism, osmotic adjustment, and nutrient uptake to lessen the effects of alkaline stress on <i>Trifolium alexandrinum</i> L. plants. <i>South African Journal of Botany</i> , 2022, 148, 482-498.	2.5	16
36	Cadmium-induced Perturbations in Growth, Oxidative Defense System, Catalase Gene Expression and Fruit Quality in Tomato. <i>International Journal of Agriculture and Biology</i> , 2017, 19, 61-68.	0.4	15

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37	Effect of different seed priming agents on chromium accumulation, oxidative defense, glyoxalase system and mineral nutrition in canola (<i>Brassica napus</i> L.) cultivars. <i>Environmental Pollution</i> , 2022, 309, 119769.	7.5	15
38	Improving Plant Phosphorus (P) Acquisition by Phosphate-Solubilizing Bacteria. , 2017, , 513-556.		14
39	Menadione sodium bisulfite neutralizes chromium phytotoxic effects in okra by regulating cytosolutes, lipid peroxidation, antioxidant system and metal uptake. <i>International Journal of Phytoremediation</i> , 2020, 23, 1-11.	3.1	14
40	Exogenous menadione sodium bisulfite mitigates specific ion toxicity and oxidative damage in salinity-stressed okra (<i>Abelmoschus esculentus</i> Moench). <i>Acta Physiologiae Plantarum</i> , 2019, 41, 1.	2.1	13
41	Foliar Applied Acetylsalicylic Acid Induced Growth and Key-Biochemical Changes in Chickpea (<i>Cicer</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 13	1.6	13
42	Interactive effects of chitosan and cadmium on growth, secondary metabolism, oxidative defense, and element uptake in pea (<i>Pisum sativum</i> L.). <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	1.3	12
43	Menadione sodium bisulphite regulates physiological and biochemical responses to lessen salinity effects on wheat (<i>Triticum aestivum</i> L.). <i>Physiology and Molecular Biology of Plants</i> , 2021, 27, 1135-1152.	3.1	11
44	Salt-induced perturbation in growth, physiological attributes, activities of antioxidant enzymes and organic solutes in mungbean (<i>Vigna radiata</i> L.) cultivars differing in salinity tolerance. <i>Archives of Agronomy and Soil Science</i> , 2013, 59, 1695-1712.	2.6	9
45	Low C/N ratio raw textile wastewater reduced labile C and enhanced organic-inorganic N and enzymatic activities in a semiarid alkaline soil. <i>Environmental Science and Pollution Research</i> , 2017, 24, 3456-3469.	5.3	8
46	Major Constraints for Global Rice Production: Changing Climate, Abiotic and Biotic Stresses. , 2020, , 15-45.		7
47	Heat shock increases oxidative stress to modulate growth and physico-chemical attributes in diverse maize cultivars. <i>International Agrophysics</i> , 2016, 30, 519-531.	1.7	6
48	Time-course changes in growth and biochemical indices of mung bean [<i>Vigna radiata</i> (L.) Wilczek] genotypes under salinity. <i>Revista Brasileira De Botanica</i> , 2014, 37, 429-439.	1.3	5
49	Assessment of variation in drought tolerance using some key physiological criteria in potential wheat (<i>Triticum aestivum</i> L.) cultivars of different geographic origins. <i>Archives of Agronomy and Soil Science</i> , 2013, 59, 1503-1516.	2.6	4
50	Physiological and biochemical markers to optimize sugar mill wastewater for irrigation in maize (<i>Zea</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.3	3
51	Choline Chloride Mediates Salinity Tolerance in Cluster Bean (<i>Cyamopsis tetragonoloba</i> L.) by Improving Growth, Oxidative Defense, and Secondary Metabolism. <i>Dose-Response</i> , 2021, 19, 155932582110550.	1.6	3
52	Effect of Semiarid Environment on Some Nutritional and Antinutritional Attributes of Calendula (<i>Calendula officinalis</i>). <i>Journal of Chemistry</i> , 2015, 2015, 1-8.	1.9	2
53	Effect of Pharmaceutical Effluents on Growth, Oxidative Defense, Secondary Metabolism, and Ion Homeostasis in Carrot. <i>Dose-Response</i> , 2021, 19, 155932582199850.	1.6	2
54	Chemical Priming for Multiple Stress Tolerance. , 2019, , 385-415.		2

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55	Fertigation of calcium nitrate [Ca(NO ₃) ₂] confers metal tolerance in two chickpea (<i>Cicer arietinum</i> L.) cultivars. <i>Arabian Journal of Geosciences</i> , 2022, 15, .	1.3	0