Muhammad Ashraf

List of Publications by Year
in descending order

368	22,081	9775	13758
papers	citations	73 h-index	129 g-index

370	370	370	17967
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Moringa oleifera: a food plant with multiple medicinal uses. Phytotherapy Research, 2007, 21, 17-25.	2.8	1,166
2	Role of Arbuscular Mycorrhizal Fungi in Plant Growth Regulation: Implications in Abiotic Stress Tolerance. Frontiers in Plant Science, 2019, 10, 1068.	1.7	783
3	The role of mycorrhizae and plant growth promoting rhizobacteria (PGPR) in improving crop productivity under stressful environments. Biotechnology Advances, 2014, 32, 429-448.	6.0	754
4	Some important physiological selection criteria for salt tolerance in plants. Flora: Morphology, Distribution, Functional Ecology of Plants, 2004, 199, 361-376.	0.6	563
5	Ascorbic Acid-A Potential Oxidant Scavenger and Its Role in Plant Development and Abiotic Stress Tolerance. Frontiers in Plant Science, 2017, 8, 613.	1.7	534
6	Nanofertilizer use for sustainable agriculture: Advantages and limitations. Plant Science, 2019, 289, 110270.	1.7	405
7	Recent developments in biodegradation of industrial pollutants by white rot fungi and their enzyme system. Biodegradation, 2008, 19, 771-783.	1.5	399
8	Inoculating wheat seedlings with exopolysaccharide-producing bacteria restricts sodium uptake and stimulates plant growth under salt stress. Biology and Fertility of Soils, 2004, 40, 157.	2.3	387
9	Vanadium, recent advancements and research prospects: A review. Environment International, 2015, 80, 79-88.	4.8	339
10	Does exogenous application of salicylic acid through the rooting medium modulate growth and photosynthetic capacity in two differently adapted spring wheat cultivars under salt stress?. Journal of Plant Physiology, 2007, 164, 685-694.	1.6	338
11	Microbial Proteases Applications. Frontiers in Bioengineering and Biotechnology, 2019, 7, 110.	2.0	307
12	Jasmonates: Multifunctional Roles in Stress Tolerance. Frontiers in Plant Science, 2016, 7, 813.	1.7	306
13	Exogenously applied ascorbic acid alleviates salt-induced oxidative stress in wheat. Environmental and Experimental Botany, 2008, 63, 224-231.	2.0	290
14	Improving salinity tolerance of plants through conventional breeding and genetic engineering: An analytical comparison. Biotechnology Advances, 2009, 27, 744-752.	6.0	277
15	The effects of calcium sulphate on growth, membrane stability and nutrient uptake of tomato plants grown under salt stress. Environmental and Experimental Botany, 2007, 59, 173-178.	2.0	267
16	Melatonin-mediated nitric oxide improves tolerance to cadmium toxicity by reducing oxidative stress in wheat plants. Chemosphere, 2019, 225, 627-638.	4.2	265
17	Gibberellic acid mediated induction of salt tolerance in wheat plants: Growth, ionic partitioning, photosynthesis, yield and hormonal homeostasis. Environmental and Experimental Botany, 2013, 86, 76-85.	2.0	229
18	Integrative roles of nitric oxide and hydrogen sulfide in melatoninâ€induced tolerance of pepper (<scp>Capsicum annuum</scp> L.) plants to iron deficiency and salt stress alone or in combination. Physiologia Plantarum, 2020, 168, 256-277.	2.6	216

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19	Cultivated Ancient Wheats (Triticum spp.): A Potential Source of Healthâ€Beneficial Food Products. Comprehensive Reviews in Food Science and Food Safety, 2017, 16, 477-488.	5.9	211
20	Role of transgenic plants in agriculture and biopharming. Biotechnology Advances, 2012, 30, 524-540.	6.0	204
21	Responses of nitric oxide and hydrogen sulfide in regulating oxidative defence system in wheat plants grown under cadmium stress. Physiologia Plantarum, 2020, 168, 345-360.	2.6	204
22	Improved salt tolerance of melon (Cucumis melo L.) by the addition of proline and potassium nitrate. Environmental and Experimental Botany, 2007, 60, 397-403.	2.0	175
23	Osmoprotection in plants under abiotic stresses: new insights into a classical phenomenon. Planta, 2020, 251, 3.	1.6	174
24	Glycinebetaine-induced modulation of antioxidant enzymes activities and ion accumulation in two wheat cultivars differing in salt tolerance. Environmental and Experimental Botany, 2007, 60, 368-376.	2.0	166
25	Zinc Oxide Nanoparticles Application Alleviates Arsenic (As) Toxicity in Soybean Plants by Restricting the Uptake of as and Modulating Key Biochemical Attributes, Antioxidant Enzymes, Ascorbate-Glutathione Cycle and Glyoxalase System. Plants, 2020, 9, 825.	1.6	165
26	Crop breeding for salt tolerance in the era of molecular markers and markerâ€assisted selection. Plant Breeding, 2013, 132, 10-20.	1.0	164
27	Interprovenance variation in the composition of Moringa oleifera oilseeds from Pakistan. JAOCS, Journal of the American Oil Chemists' Society, 2005, 82, 45-51.	0.8	162
28	Salicylic acid-induced nitric oxide enhances arsenic toxicity tolerance in maize plants by upregulating the ascorbate-glutathione cycle and glyoxalase system. Journal of Hazardous Materials, 2020, 399, 123020.	6.5	160
29	Silicon occurrence, uptake, transport and mechanisms of heavy metals, minerals and salinity enhanced tolerance in plants with future prospects: A review. Journal of Environmental Management, 2016, 183, 521-529.	3.8	158
30	Potential of exogenously sourced kinetin in protecting Solanum lycopersicum from NaCl-induced oxidative stress through up-regulation of the antioxidant system, ascorbate-glutathione cycle and glyoxalase system. PLoS ONE, 2018, 13, e0202175.	1.1	158
31	Okra (Hibiscus esculentus) seed oil for biodiesel production. Applied Energy, 2010, 87, 779-785.	5.1	155
32	Does exogenous application of 24-epibrassinolide ameliorate salt induced growth inhibition in wheat (Triticum aestivum L.)?. Plant Growth Regulation, 2008, 55, 51-64.	1.8	149
33	Regulation in Plant Stress Tolerance by a Potential Plant Growth Regulator, 5-Aminolevulinic Acid. Journal of Plant Growth Regulation, 2013, 32, 663-679.	2.8	147
34	Assessment of variation in antioxidative defense system in salt-treated pea (Pisum sativum) cultivars and its putative use as salinity tolerance markers. Journal of Plant Physiology, 2009, 166, 1764-1774.	1.6	138
35	Application of response surface methodology for optimizing transesterification of Moringa oleifera oil: Biodiesel production. Energy Conversion and Management, 2011, 52, 3034-3042.	4.4	135
36	Drought stress induced changes in some organic substances in nodules and other plant parts of two potential legumes differing in salt tolerance. Flora: Morphology, Distribution, Functional Ecology of Plants, 2005, 200, 535-546.	0.6	130

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37	Trehalose: A Key Organic Osmolyte Effectively Involved in Plant Abiotic Stress Tolerance. Journal of Plant Growth Regulation, 2019, 38, 606-618.	2.8	128
38	Nanoparticles potentially mediate salt stress tolerance in plants. Plant Physiology and Biochemistry, 2021, 160, 257-268.	2.8	124
39	A global meta-analysis of greenhouse gases emission and crop yield under no-tillage as compared to conventional tillage. Science of the Total Environment, 2021, 750, 142299.	3.9	121
40	Analytical characterization of hemp (Cannabis sativa) seed oil from different agro-ecological zones of Pakistan. JAOCS, Journal of the American Oil Chemists' Society, 2006, 83, 323-329.	0.8	118
41	Aminolevulinic acid and nitric oxide regulate oxidative defense and secondary metabolisms in canola (Brassica napus L.) under drought stress. Protoplasma, 2018, 255, 163-174.	1.0	116
42	Effect of animal manure, crop type, climate zone, and soil attributes on greenhouse gas emissions from agricultural soilsâ€"A global meta-analysis. Journal of Cleaner Production, 2021, 278, 124019.	4.6	115
43	24-Epibrassinolide (EBR) Confers Tolerance against NaCl Stress in Soybean Plants by Up-Regulating Antioxidant System, Ascorbate-Glutathione Cycle, and Glyoxalase System. Biomolecules, 2019, 9, 640.	1.8	114
44	Microbial ACC-Deaminase: Prospects and Applications for Inducing Salt Tolerance in Plants. Critical Reviews in Plant Sciences, 2010, 29, 360-393.	2.7	113
45	Plant responses to environmental stressesâ€"from gene to biotechnology. AoB PLANTS, 2017, 9, plx025.	1.2	112
46	Anthelmintic activity of Artemisia brevifolia in sheep. Journal of Ethnopharmacology, 2004, 93, 265-268.	2.0	110
47	Essential Roles and Hazardous Effects of Nickel in Plants. Reviews of Environmental Contamination and Toxicology, 2012, 214, 125-167.	0.7	110
48	Seed Treatment with Auxins Modulates Growth and Ion Partitioning in Salt-stressed Wheat Plants. Journal of Integrative Plant Biology, 2007, 49, 1003-1015.	4.1	109
49	Does Seed Priming Induce Changes in the Levels of Some Endogenous Plant Hormones in Hexaploid Wheat Plants Under Salt Stress?. Journal of Integrative Plant Biology, 2006, 48, 181-189.	4.1	108
50	Seed enhancement with cytokinins: changes in growth and grain yield in salt stressed wheat plants. Plant Growth Regulation, 2006, 50, 29-39.	1.8	107
51	Impact of exogenously applied trehalose on leaf biochemistry, achene yield and oil composition of sunflower under drought stress. Physiologia Plantarum, 2021, 172, 317-333.	2.6	103
52	Roles of potential plant hormones and transcription factors in controlling leaf senescence and drought tolerance. Protoplasma, 2019, 256, 313-329.	1.0	102
53	Alleviation of salt-induced adverse effects in eggplant (Solanum melongena L.) by glycinebetaine and sugarbeet extracts. Scientia Horticulturae, 2010, 125, 188-195.	1.7	101
54	Alleviation of waterlogging stress in upland cotton (Gossypium hirsutum L.) by exogenous application of potassium in soil and as a foliar spray. Crop and Pasture Science, 2011, 62, 25.	0.7	101

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55	The role of endogenous nitric oxide in salicylic acid-induced up-regulation of ascorbate-glutathione cycle involved in salinity tolerance of pepper (Capsicum annuum L.) plants. Plant Physiology and Biochemistry, 2020, 147, 10-20.	2.8	101
56	Brassinosteroids Regulate Growth in Plants Under Stressful Environments and Crosstalk with Other Potential Phytohormones. Journal of Plant Growth Regulation, 2018, 37, 1007-1024.	2.8	98
57	Antibacterial and antioxidant activity of exopolysaccharide mediated silver nanoparticle synthesized by Lactobacillus brevis isolated from Chinese koumiss. Colloids and Surfaces B: Biointerfaces, 2020, 186, 110734.	2.5	98
58	Changes in antioxidant enzymes and some key metabolites in some genetically diverse cultivars of radish (Raphanus sativus L.). Environmental and Experimental Botany, 2009, 67, 395-402.	2.0	97
59	Chemical Composition, and Antioxidant and Antimicrobial Activities of Essential Oil of Spearmint (Mentha spicataL.) From Pakistan. Journal of Essential Oil Research, 2010, 22, 78-84.	1.3	94
60	Salinity effects on nitrogen metabolism in plants â€“ focusing on the activities of nitrogen metabolizing enzymes: A review. Journal of Plant Nutrition, 2018, 41, 1065-1081.	0.9	94
61	The putative role of endogenous nitric oxide in brassinosteroid-induced antioxidant defence system in pepper (Capsicum annuum L.) plants under water stress. Plant Physiology and Biochemistry, 2019, 143, 119-128.	2.8	94
62	Seed Composition and Seed Oil Antioxidant Activity of Maize Under Water Stress. JAOCS, Journal of the American Oil Chemists' Society, 2010, 87, 1179-1187.	0.8	92
63	Salt stress affects water relations, photosynthesis, and oxidative defense mechanisms inSolanum melongenaL.. Journal of Plant Interactions, 2013, 8, 85-96.	1.0	92
64	Improving growth and photosynthetic performance of drought stressed tomato by application of nano-organic fertilizer involves up-regulation of nitrogen, antioxidant and osmolyte metabolism. Ecotoxicology and Environmental Safety, 2021, 216, 112195.	2.9	92
65	Salt stress induces physiochemical alterations in rice grain composition and quality. Journal of Food Science, 2020, 85, 14-20.	1.5	90
66	Modification of Osmolytes and Antioxidant Enzymes by 24-Epibrassinolide in Chickpea Seedlings Under Mercury (Hg) Toxicity. Journal of Plant Growth Regulation, 2018, 37, 309-322.	2.8	89
67	Exogenously Applied Ascorbic Acid-Mediated Changes in Osmoprotection and Oxidative Defense System Enhanced Water Stress Tolerance in Different Cultivars of Safflower (Carthamus tinctorious L.). Plants, 2020, 9, 104.	1.6	88
68	Aminolevulinic acid-induced changes in some key physiological attributes and activities of antioxidant enzymes in sunflower (Helianthus annuus L.) plants under saline regimes. Scientia Horticulturae, 2012, 142, 143-148.	1.7	87
69	Sodium nitroprusside (SNP) improves tolerance to arsenic (As) toxicity in Vicia faba through the modifications of biochemical attributes, antioxidants, ascorbate-glutathione cycle and glyoxalase cycle. Chemosphere, 2020, 244, 125480.	4.2	86
70	Phytohormones and microRNAs as sensors and regulators of leaf senescence: Assigning macro roles to small molecules. Biotechnology Advances, 2013, 31, 1153-1171.	6.0	84
71	Ameliorating Effects of Exogenously Applied Proline on Seed Composition, Seed Oil Quality and Oil Antioxidant Activity of Maize (Zea mays L.) under Drought Stress. International Journal of Molecular Sciences, 2013, 14, 818-835.	1.8	84
72	The role of nitrate reductase in brassinosteroid-induced endogenous nitric oxide generation to improve cadmium stress tolerance of pepper plants by upregulating the ascorbate-glutathione cycle. Ecotoxicology and Environmental Safety, 2020, 196, 110483.	2.9	84

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73	Exogenous application of mannitol and thiourea regulates plant growth and oxidative stress responses in salt-stressed maize (Zea maysL.). Journal of Plant Interactions, 2013, 8, 234-241.	1.0	83
74	Exogenously supplied silicon (Si) improves cadmium tolerance in pepper (Capsicum annuum L.) by up-regulating the synthesis of nitric oxide and hydrogen sulfide. Journal of Biotechnology, 2020, 316, 35-45.	1.9	82
75	Physiological and biochemical adaptations of Cynodon dactylon (L.) Pers. from the Salt Range (Pakistan) to salinity stress. Flora: Morphology, Distribution, Functional Ecology of Plants, 2008, 203, 683-694.	0.6	81
76	Isolation, characterization, and effect of phosphate-zinc-solubilizing bacterial strains on chickpea (Cicer arietinum L.) growth. Saudi Journal of Biological Sciences, 2019, 26, 1061-1067.	1.8	79
77	Hydrogen sulfide regulates the levels of key metabolites and antioxidant defense system to counteract oxidative stress in pepper (Capsicum annuum L.) plants exposed to high zinc regime. Environmental Science and Pollution Research, 2018, 25, 12612-12618.	2.7	78
78	Bioregulators: unlocking their potential role in regulation of the plant oxidative defense system. Plant Molecular Biology, 2021, 105, 11-41.	2.0	78
79	Exogenously applied glycinebetaine enhances seed and seed oil quality of maize (Zea mays L.) under water deficit conditions. Environmental and Experimental Botany, 2011, 71, 249-259.	2.0	77
80	Protective role of foliar-applied nitric oxide in Triticum aestivum under saline stress. Turkish Journal of Botany, 2013, 37, 1155-1165.	0.5	76
81	Synergistic effects of drought and ascorbic acid on growth, mineral nutrients and oxidative defense system in canola (Brassica napus L.) plants. Acta Physiologiae Plantarum, 2014, 36, 1539-1553.	1.0	75
82	Influence of natural and synthetic vitamin C (ascorbic acid) on primary and secondary metabolites and associated metabolism in quinoa (Chenopodium quinoa Willd.) plants under water deficit regimes. Plant Physiology and Biochemistry, 2018, 123, 192-203.	2.8	74
83	Anatomical adaptations to salinity in cogon grass [Imperata cylindrica (L.) Raeuschel] from the Salt Range, Pakistan. Plant and Soil, 2009, 322, 229-238.	1.8	73
84	Modulation Role of Abscisic Acid (ABA) on Growth, Water Relations and Glycinebetaine Metabolism in Two Maize (Zea mays L.) Cultivars under Drought Stress. International Journal of Molecular Sciences, 2012, 13, 3189-3202.	1.8	73
85	Salt-induced modulation in growth, photosynthetic capacity, proline content and ion accumulation in sunflower (Helianthus annuus L.). Acta Physiologiae Plantarum, 2011, 33, 1113-1122.	1.0	72
86	Iso-osmotic effect of NaCl and PEG on growth, cations and free proline accumulation in callus tissue of two indica rice (Oryza sativa L.) genotypes. Plant Growth Regulation, 2007, 53, 53-63.	1.8	70
87	Fresh and composted industrial sludge restore soil functions in surface soil of degraded agricultural land. Science of the Total Environment, 2018, 619-620, 517-527.	3.9	70
88	Alpha-Tocopherol-Induced Regulation of Growth and Metabolism in Plants Under Non-stress and Stress Conditions. Journal of Plant Growth Regulation, 2019, 38, 1325-1340.	2.8	70
89	Effectiveness of potassium sulfate in mitigating salt-induced adverse effects on different physio-biochemical attributes in sunflower (Helianthus annuus L.). Flora: Morphology, Distribution, Functional Ecology of Plants, 2009, 204, 471-483.	0.6	69
90	Cotton genetic resources. A review. Agronomy for Sustainable Development, 2012, 32, 419-432.	2.2	69

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91	Does exogenously-applied trehalose alter oxidative defense system in the edible part of radish (Raphanus sativus L.) under water-deficit conditions?. Scientia Horticulturae, 2015, 185, 68-75.	1.7	69
92	Vanadium toxicity in chickpea (Cicer arietinum L.) grown in red soil: Effects on cell death, ROS and antioxidative systems. Ecotoxicology and Environmental Safety, 2018, 158, 139-144.	2.9	69
93	Alleviating effect of nitric oxide on oxidative stress and antioxidant defence system in pepper (Capsicum annuum L.) plants exposed to cadmium and lead toxicity applied separately or in combination. Scientia Horticulturae, 2019, 255, 52-60.	1.7	69
94	Alhagi: A Plant Genus Rich in Bioactives for Pharmaceuticals. Phytotherapy Research, 2015, 29, 1-13.	2.8	67
95	Salt stress induced changes in some organic metabolites and ionic relations in nodules and other plant parts of two crop legumes differing in salt tolerance. Flora: Morphology, Distribution, Functional Ecology of Plants, 2003, 198, 486-498.	0.6	66
96	Ethnobotany of the Genus Artemisia L. (Asteraceae) in Pakistan. Ethnobotany Research and Applications, 0, 7, 147.	0.3	66
97	Does biochar accelerate the mitigation of greenhouse gaseous emissions from agricultural soil? - A global meta-analysis. Environmental Research, 2021, 202, 111789.	3.7	66
98	Potassium starvation-induced oxidative stress and antioxidant defense responses in Brassica juncea. Journal of Plant Interactions, 2014, 9, 1-9.	1.0	65
99	Salinity Stress in Arid and Semi-Arid Climates: Effects and Management in Field Crops. , 0, , .		65
100	Phytotoxic effects of nickel on yield and concentration of macro- and micro-nutrients in sunflower (Helianthus annuus L.) achenes. Journal of Hazardous Materials, 2011, 185, 1295-1303.	6.5	63
101	Growth, V uptake, and antioxidant enzymes responses of chickpea (Cicer arietinum L.) genotypes under vanadium stress. Plant and Soil, 2015, 390, 17-27.	1.8	63
102	Alleviation of field water stress in wheat cultivars by using silicon and salicylic acid applied separately or in combination. Crop and Pasture Science, 2019, 70, 36.	0.7	63
103	Ecotoxicological risks associated with tannery effluent wastewater. Environmental Toxicology and Pharmacology, 2012, 34, 180-191.	2.0	62
104	Integrated Effect of Algal Biochar and Plant Growth Promoting Rhizobacteria on Physiology and Growth of Maize Under Deficit Irrigations. Journal of Soil Science and Plant Nutrition, 2020, 20, 346-356.	1.7	62
105	Variation in Minerals, Phenolics and Antioxidant Activity of Peel and Pulp of Different Varieties of Peach (Prunus persica L.) Fruit from Pakistan. Molecules, 2012, 17, 6491-6506.	1.7	61
106	Inducing Salt Tolerance in Wheat by Exogenously Applied Ascorbic Acid through Different Modes. Journal of Plant Nutrition, 2009, 32, 1799-1817.	0.9	60
107	Variations of Antioxidant Characteristics and Mineral Contents in Pulp and Peel of Different Apple (Malus domestica Borkh.) Cultivars from Pakistan. Molecules, 2012, 17, 390-407.	1.7	60
108	24-Epibrassinolide Alleviates the Injurious Effects of Cr(VI) Toxicity in Tomato Plants: Insights into Growth, Physio-Biochemical Attributes, Antioxidant Activity and Regulation of Ascorbateâ€“Glutathione and Glyoxalase Cycles. Journal of Plant Growth Regulation, 2020, 39, 1587-1604.	2.8	59

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109	Co-inoculation integrated with P-enriched compost improved nodulation and growth of Chickpea (Cicer arietinum L.) under irrigated and rainfed farming systems. Biology and Fertility of Soils, 2014, 50, 1-12.	2.3	58
110	Role of Proteomics in Crop Stress Tolerance. Frontiers in Plant Science, 2016, 7, 1336.	1.7	58
111	Peanut (Arachis hypogaea L.): A Prospective Legume Crop to Offer Multiple Health Benefits Under Changing Climate. Comprehensive Reviews in Food Science and Food Safety, 2018, 17, 1325-1338.	5.9	58
112	Mitigation of Arsenic Toxicity in Wheat by the Exogenously Applied Salicylic Acid, 24-Epi-Brassinolide and Silicon. Journal of Soil Science and Plant Nutrition, 2020, 20, 577-588.	1.7	55
113	Immobilization of Pb and Cu by organic and inorganic amendments in contaminated soil. Geoderma, 2021, 385, 114803.	2.3	55
114	Heâ€Ne Laserâ€Induced Improvement in Biochemical, Physiological, Growth and Yield Characteristics in Sunflower (Helianthus annuus L.). Photochemistry and Photobiology, 2011, 87, 1453-1463.	1.3	54
115	Presowing Seed Treatment with Cytokinins and Its Effect on Growth, Photosynthetic Rate, Ionic Levels and Yield of Two Wheat Cultivars Differing in Salt Tolerance. Journal of Integrative Plant Biology, 2005, 47, 1315-1325.	4.1	53
116	Breeding strategies for structuring salinity tolerance in wheat. Advances in Agronomy, 2019, 155, 121-187.	2.4	53
117	Antioxidants as modulators of arsenic-induced oxidative stress tolerance in plants: An overview. Journal of Hazardous Materials, 2022, 427, 127891.	6.5	53
118	Growth stage-based modulation in antioxidant defense system and proline accumulation in two hexaploid wheat (Triticum aestivum L.) cultivars differing in salinity tolerance. Flora: Morphology, Distribution, Functional Ecology of Plants, 2012, 207, 388-397.	0.6	51
119	Comparison of antioxidant enzyme activities and DNA damage in chickpea (Cicer arietinum L.) genotypes exposed to vanadium. Environmental Science and Pollution Research, 2016, 23, 19787-19796.	2.7	50
120	The combined supplementation of melatonin and salicylic acid effectively detoxifies arsenic toxicity by modulating phytochelatins and nitrogen metabolism in pepper plants. Environmental Pollution, 2022, 297, 118727.	3.7	50
121	Effects of Different Doses of Low Power Continuous Wave Heâ€“Ne Laser Radiation on Some Seed Thermodynamic and Germination Parameters, and Potential Enzymes Involved in Seed Germination of Sunflower (Helianthus annuus L.). Photochemistry and Photobiology, 2010, 86, 1050-1055.	1.3	49
122	Influence of sub-lethal crude oil concentration on growth, water relations and photosynthetic capacity of maize (Zea mays L.) plants. Environmental Science and Pollution Research, 2016, 23, 18320-18331.	2.7	48
123	Hydrogen Sulfide (H2S) Mitigates Arsenic (As)-Induced Toxicity in Pea (Pisum sativum L.) Plants by Regulating Osmoregulation, Antioxidant Defense System, Ascorbate Glutathione Cycle and Glyoxalase System. Journal of Plant Growth Regulation, 2021, 40, 2515-2531.	2.8	48
124	Capparis spinosa L.: A Plant with High Potential for Development of Functional Foods and Nutraceuticals/Pharmaceuticals. International Journal of Pharmacology, 2016, 12, 201-219.	0.1	48
125	Immobilization of Pb and Cu in polluted soil by superphosphate, multi-walled carbon nanotube, rice straw and its derived biochar. Environmental Science and Pollution Research, 2016, 23, 15532-15543.	2.7	47
126	Trehalose pretreatment induces drought tolerance in radish (Raphanus sativus L.) plants: some key physio-biochemical traits. Acta Physiologiae Plantarum, 2016, 38, 1.	1.0	47

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127	Influence of exogenously applied nitric oxide on strawberry (Fragaria Ã— ananassa) plants grown under iron deficiency and/or saline stress. Physiologia Plantarum, 2019, 165, 247-263.	2.6	47
128	Textile industrial effluent induces mutagenicity and oxidative DNA damage and exploits oxidative stress biomarkers in rats. Environmental Toxicology and Pharmacology, 2016, 41, 180-186.	2.0	46
129	Improving drought tolerance in maize by foliar application of boron: water status, antioxidative defense and photosynthetic capacity. Archives of Agronomy and Soil Science, 2018, 64, 626-639.	1.3	46
130	Role of exogenous glycinebetaine and humic acid in mitigating drought stress-induced adverse effects in Malus robusta seedlings. Turkish Journal of Botany, 2013, 37, 920-929.	0.5	45
131	Heâ€“Ne laser-induced changes in germination, thermodynamic parameters, internal energy, enzyme activities and physiological attributes of wheat during germination and early growth. Laser Physics Letters, 2013, 10, 045606.	0.6	45
132	Effect of salinity on osmotic adjustment, proline accumulation and possible role of ornithine-Î´-aminotransferase in proline biosynthesis in Cakile maritima. Physiology and Molecular Biology of Plants, 2018, 24, 1017-1033.	1.4	45
133	Gibberellic acid-induced generation of hydrogen sulfide alleviates boron toxicity in tomato (Solanum) Tj ETQq1 1 0.784314 rgBT /Ove	2.8	45
134	Alleviation of Adverse Effects of Drought Stress on Growth and Some Potential Physiological Attributes in Maize (Zea mays L.) by Seed Electromagnetic Treatment. Photochemistry and Photobiology, 2011, 87, 1354-1362.	1.3	44
135	Silicon is dependent on hydrogen sulphide to improve boron toxicity tolerance in pepper plants by regulating the AsA-GSH cycle and glyoxalase system. Chemosphere, 2020, 257, 127241.	4.2	44
136	Modulation of Plant Growth and Metabolism in Cadmium-Enriched Environments. Reviews of Environmental Contamination and Toxicology, 2014, 229, 51-88.	0.7	44
137	Modulation of salt (NaCl)-induced effects on oil composition and fatty acid profile of sunflower (Helianthus annuus L.) by exogenous application of salicylic acid. Journal of the Science of Food and Agriculture, 2010, 90, 2608-2616.	1.7	42
138	Soil salinity as a selection pressure is a key determinant for the evolution of salt tolerance in Blue Panicgrass (Panicum antidotale Retz.). Flora: Morphology, Distribution, Functional Ecology of Plants, 2010, 205, 37-45.	0.6	42
139	Toxic Effect of Nickel (Ni) on Growth and Metabolism in Germinating Seeds of Sunflower (Helianthus) Tj ETQq1 1 0.784314 rgBT /Ove	1.9	42
140	Trehaloseâ€Induced Changes in Seed Oil Composition and Antioxidant Potential of Maize Grown Under Drought Stress. JAOCS, Journal of the American Oil Chemists' Society, 2012, 89, 1485-1493.	0.8	41
141	Upregulation of antioxidant and glyoxalase systems mitigates NaCl stress inBrassica junceaby supplementation of zinc and calcium. Journal of Plant Interactions, 2018, 13, 151-162.	1.0	41
142	Kinetin and Indole Acetic Acid Promote Antioxidant Defense System and Reduce Oxidative Stress in Maize (Zea mays L.) Plants Grown at Boron Toxicity. Journal of Plant Growth Regulation, 2018, 37, 1258-1266.	2.8	41
143	Exogenous application of nitric oxide promotes growth and oxidative defense system in highly boron stressed tomato plants bearing fruit. Scientia Horticulturae, 2015, 185, 43-47.	1.7	40
144	Perspectives of Using L-Tryptophan for Improving Productivity of Agricultural Crops: A Review. Pedosphere, 2018, 28, 16-34.	2.1	40

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145	The mechanism of hydrogen sulfide mitigation of iron deficiency-induced chlorosis in strawberry (Fragaria Ã— ananassa) plants. Protoplasma, 2019, 256, 371-382.	1.0	40
146	Morpho-anatomical and physiological adaptations to high altitude in some Aveneae grasses from Neelum Valley, Western Himalayan Kashmir. Acta Physiologiae Plantarum, 2016, 38, 1.	1.0	38
147	Health risk assessment of heavy metals and metalloids via dietary intake of a potential vegetable (Coriandrum sativumL.) grown in contaminated water irrigated agricultural sites of Sargodha, Pakistan. Human and Ecological Risk Assessment (HERA), 2016, 22, 597-610.	1.7	38
148	Pharmaceutical wastewater being composite mixture of environmental pollutants may be associated with mutagenicity and genotoxicity. Environmental Science and Pollution Research, 2016, 23, 2813-2820.	2.7	38
149	Interactive effects of vanadium and phosphorus on their uptake, growth and heat shock proteins in chickpea genotypes under hydroponic conditions. Environmental and Experimental Botany, 2017, 134, 72-81.	2.0	38
150	Nitric oxide donor, sodium nitroprusside, mitigates mercury toxicity in different cultivars of soybean. Journal of Hazardous Materials, 2021, 408, 124852.	6.5	38
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