Mirza Hasanuzzaman

List of Publications by Year
in descending order

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296	24,214	7069	78	10708	138
papers	citations		h-index		g-index

312	312	312	14190
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Physiological, Biochemical, and Molecular Mechanisms of Heat Stress Tolerance in Plants. International Journal of Molecular Sciences, 2013, 14, 9643-9684.	1.8	1,470
2	Reactive Oxygen Species and Antioxidant Defense in Plants under Abiotic Stress: Revisiting the Crucial Role of a Universal Defense Regulator. Antioxidants, 2020, 9, 681.	2.2	1,288
3	Regulation of Ascorbate-Glutathione Pathway in Mitigating Oxidative Damage in Plants under Abiotic Stress. Antioxidants, 2019, 8, 384.	2.2	586
4	Molecular Mechanism of Heavy Metal Toxicity and Tolerance in Plants: Central Role of Glutathione in Detoxification of Reactive Oxygen Species and Methylglyoxal and in Heavy Metal Chelation. Journal of Botany, 2012, 2012, 1-37.	1.2	560
5	Hydrogen peroxide priming modulates abiotic oxidative stress tolerance: insights from ROS detoxification and scavenging. Frontiers in Plant Science, 2015, 6, 420.	1.7	552
6	Glutathione in plants: biosynthesis and physiological role in environmental stress tolerance. Physiology and Molecular Biology of Plants, 2017, 23, 249-268.	1.4	495
7	Abiotic Stress and Reactive Oxygen Species: Generation, Signaling, and Defense Mechanisms. Antioxidants, 2021, 10, 277.	2.2	449
8	Potassium: A Vital Regulator of Plant Responses and Tolerance to Abiotic Stresses. Agronomy, 2018, 8, 31.	1.3	408
9	Glutathione and glutathione reductase: A boon in disguise for plant abiotic stress defense operations. Plant Physiology and Biochemistry, 2013, 70, 204-212.	2.8	404
10	Plant Response and Tolerance to Abiotic Oxidative Stress: Antioxidant Defense Is a Key Factor. , 2012, , 261-315.		378
11	Nitric oxide modulates antioxidant defense and the methylglyoxal detoxification system and reduces salinity-induced damage of wheat seedlings. Plant Biotechnology Reports, 2011, 5, 353-365.	0.9	366
12	Approaches in modulating proline metabolism in plants for salt and drought stress tolerance: Phytohormones, mineral nutrients and transgenics. Plant Physiology and Biochemistry, 2017, 115, 126-140.	2.8	337
13	Up-regulation of antioxidant and glyoxalase systems by exogenous glycinebetaine and proline in mung bean confer tolerance to cadmium stress. Physiology and Molecular Biology of Plants, 2010, 16, 259-272.	1.4	327
14	Selenium Pretreatment Upregulates the Antioxidant Defense and Methylglyoxal Detoxification System and Confers Enhanced Tolerance to Drought Stress in Rapeseed Seedlings. Biological Trace Element Research, 2011, 143, 1758-1776.	1.9	319
15	Polyamine and nitric oxide crosstalk: Antagonistic effects on cadmium toxicity in mung bean plants through upregulating the metal detoxification, antioxidant defense and methylglyoxal detoxification systems. Ecotoxicology and Environmental Safety, 2016, 126, 245-255.	2.9	292
16	Potential Use of Halophytes to Remediate Saline Soils. BioMed Research International, 2014, 2014, 1-12.	0.9	257
17	Selenium-Induced Up-Regulation of the Antioxidant Defense and Methylglyoxal Detoxification System Reduces Salinity-Induced Damage in Rapeseed Seedlings. Biological Trace Element Research, 2011, 143, 1704-1721.	1.9	252
18	Plant Response to Salt Stress and Role of Exogenous Protectants to Mitigate Salt-Induced Damages. , 2013, , 25-87.		250

#	Article	IF	Citations
19	Catalase and ascorbate peroxidaseâ€"representative H2O2-detoxifying heme enzymes in plants. Environmental Science and Pollution Research, 2016, 23, 19002-19029.	2.7	248
20	Exogenous sodium nitroprusside alleviates arsenic-induced oxidative stress in wheat (Triticum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 584-596.	1.1	247
21	Superoxide dismutaseâ€"mentor of abiotic stress tolerance in crop plants. Environmental Science and Pollution Research, 2015, 22, 10375-10394.	2.7	247
22	Hydrogen sulfide modulates cadmium-induced physiological and biochemical responses to alleviate cadmium toxicity in rice. Scientific Reports, 2015, 5, 14078.	1.6	243
23	Exogenous Proline and Glycine Betaine Mediated Upregulation of Antioxidant Defense and Glyoxalase Systems Provides Better Protection against Salt-Induced Oxidative Stress in Two Rice (<i>Oryza) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.4	234
24	Osmoregulation and its actions during the drought stress in plants. Physiologia Plantarum, 2021, 172, 1321-1335.	2.6	234
25	Salicylic acid alleviates copper toxicity in rice (Oryza sativa L.) seedlings by up-regulating antioxidative and glyoxalase systems. Ecotoxicology, 2013, 22, 959-973.	1.1	228
26	Importance of nitric oxide in cadmium stress tolerance in crop plants. Plant Physiology and Biochemistry, 2013, 63, 254-261.	2.8	228
27	Application of Floating Aquatic Plants in Phytoremediation of Heavy Metals Polluted Water: A Review. Sustainability, 2020, 12, 1927.	1.6	217
28	Exogenous Selenium Pretreatment Protects Rapeseed Seedlings from Cadmium-Induced Oxidative Stress by Upregulating Antioxidant Defense and Methylglyoxal Detoxification Systems. Biological Trace Element Research, 2012, 149, 248-261.	1.9	215
29	Exogenous glutathione confers high temperature stress tolerance in mung bean (Vigna radiata L.) by modulating antioxidant defense and methylglyoxal detoxification system. Environmental and Experimental Botany, 2015, 112, 44-54.	2.0	205
30	Regulation of ROS Metabolism in Plants under Environmental Stress: A Review of Recent Experimental Evidence. International Journal of Molecular Sciences, 2020, 21, 8695.	1.8	202
31	Hydrogen Sulfide Regulates Salt Tolerance in Rice by Maintaining Na+/K+ Balance, Mineral Homeostasis and Oxidative Metabolism Under Excessive Salt Stress. Frontiers in Plant Science, 2015, 6, 1055.	1.7	201
32	Coordinated Actions of Glyoxalase and Antioxidant Defense Systems in Conferring Abiotic Stress Tolerance in Plants. International Journal of Molecular Sciences, 2017, 18, 200.	1.8	199
33	Regulation of Reactive Oxygen Species and Antioxidant Defense in Plants under Salinity. International Journal of Molecular Sciences, 2021, 22, 9326.	1.8	187
34	Methylglyoxal: An Emerging Signaling Molecule in Plant Abiotic Stress Responses and Tolerance. Frontiers in Plant Science, 2016, 7, 1341.	1.7	185
35	Nitric oxide-induced saltÂstress tolerance in plants: ROS metabolism, signaling, and molecular interactions. Plant Biotechnology Reports, 2018, 12, 77-92.	0.9	184
36	Calcium Supplementation Improves Na+/K+ Ratio, Antioxidant Defense and Glyoxalase Systems in Salt-Stressed Rice Seedlings. Frontiers in Plant Science, 2016, 7, 609.	1.7	171

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37	Exogenous sodium nitroprusside and glutathione alleviate copper toxicity by reducing copper uptake and oxidative damage in rice (Oryza sativa L.) seedlings. Protoplasma, 2014, 251, 1373-1386.	1.0	161
38	Insights into citric acid-induced cadmium tolerance and phytoremediation in Brassica juncea L.: Coordinated functions of metal chelation, antioxidant defense and glyoxalase systems. Ecotoxicology and Environmental Safety, 2018, 147, 990-1001.	2.9	161
39	Polyamines Confer Salt Tolerance in Mung Bean (Vigna radiata L.) by Reducing Sodium Uptake, Improving Nutrient Homeostasis, Antioxidant Defense, and Methylglyoxal Detoxification Systems. Frontiers in Plant Science, 2016, 7, 1104.	1.7	155
40	Strigolactones in plant adaptation to abiotic stresses: An emerging avenue of plant research. Plant, Cell and Environment, 2018, 41, 2227-2243.	2.8	155
41	Glutathione-induced drought stress tolerance in mung bean: coordinated roles of the antioxidant defence and methylglyoxal detoxification systems. AoB PLANTS, 2015, 7, plv069.	1.2	149
42	Jacks of metal/metalloid chelation trade in plantsÃ¢â‚¬â€an overview. Frontiers in Plant Science, 2015, 6, 192.	1.7	148
43	Exogenous Silicon Attenuates Cadmium-Induced Oxidative Stress in Brassica napus L. by Modulating AsA-GSH Pathway and Glyoxalase System. Frontiers in Plant Science, 2017, 8, 1061.	1.7	147
44	ATP-sulfurylase, sulfur-compounds, and plant stress tolerance. Frontiers in Plant Science, 2015, 6, 210.	1.7	145
45	Oxidative Stress and Antioxidant Metabolism under Adverse Environmental Conditions: a Review. Botanical Review, The, 2021, 87, 421-466.	1.7	142
46	Physiological and biochemical mechanisms associated with trehalose-induced copper-stress tolerance in rice. Scientific Reports, 2015, 5, 11433.	1.6	141
47	Heat or cold priming-induced cross-tolerance to abiotic stresses in plants: key regulators and possible mechanisms. Protoplasma, 2018, 255, 399-412.	1.0	141
48	Selenium in plants: Boon or bane?. Environmental and Experimental Botany, 2020, 178, 104170.	2.0	140
49	Silicon-mediated regulation of antioxidant defense and glyoxalase systems confers drought stress tolerance in Brassica napus L.. South African Journal of Botany, 2018, 115, 50-57.	1.2	139
50	Seed Priming with Phytohormones: An Effective Approach for the Mitigation of Abiotic Stress. Plants, 2021, 10, 37.	1.6	139
51	Phytoremediation of Cadmium: Physiological, Biochemical, and Molecular Mechanisms. Biology, 2020, 9, 177.	1.3	135
52	Selenium in Higher Plants: Physiological Role, Antioxidant Metabolism and Abiotic Stress Tolerance. Journal of Plant Sciences, 2010, 5, 354-375.	0.2	135
53	Exogenous jasmonic acid modulates the physiology, antioxidant defense and glyoxalase systems in imparting drought stress tolerance in different Brassica species. Plant Biotechnology Reports, 2014, 8, 279-293.	0.9	134
54	Trehalose pretreatment induces salt tolerance in rice (Oryza sativa L.) seedlings: oxidative damage and co-induction of antioxidant defense and glyoxalase systems. Protoplasma, 2015, 252, 461-475.	1.0	134

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55	Evidence for a role of exogenous glycinebetaine and proline in antioxidant defense and methylglyoxal detoxification systems in mung bean seedlings under salt stress. Physiology and Molecular Biology of Plants, 2010, 16, 19-29.	1.4	133
56	Spermidine pretreatment enhances heat tolerance in rice seedlings through modulating antioxidative and glyoxalase systems. Plant Growth Regulation, 2014, 73, 31-44.	1.8	131
57	Quantification the impacts of climate change and crop management on phenology of maize-based cropping system in Punjab, Pakistan. Agricultural and Forest Meteorology, 2017, 247, 42-55.	1.9	126
58	Metal/metalloid stress tolerance in plants: role of ascorbate, its redox couple, and associated enzymes. Protoplasma, 2014, 251, 1265-1283.	1.0	121
59	Jasmonic acid: a key frontier in conferring abiotic stress tolerance in plants. Plant Cell Reports, 2021, 40, 1513-1541.	2.8	120
60	Methylglyoxal â€“ a signaling molecule in plant abiotic stress responses. Free Radical Biology and Medicine, 2018, 122, 96-109.	1.3	117
61	Phenotypical, physiological and biochemical analyses provide insight into selenium-induced phytotoxicity in rice plants. Chemosphere, 2017, 178, 212-223.	4.2	116
62	Hydrogen Peroxide Pretreatment Mitigates Cadmium-Induced Oxidative Stress in Brassica napus L.: An Intrinsic Study on Antioxidant Defense and Glyoxalase Systems. Frontiers in Plant Science, 2017, 8, 115.	1.7	114
63	High temperature and drought stress cause abscisic acid and reactive oxygen species accumulation and suppress seed germination growth in rice. Protoplasma, 2019, 256, 1217-1227.	1.0	114
64	Extreme Temperature Responses, Oxidative Stress and Antioxidant Defense in Plants. , 0, , .		112
65	Roles of exogenous glutathione in antioxidant defense system and methylglyoxal detoxification during salt stress in mung bean. Biologia Plantarum, 2015, 59, 745-756.	1.9	112
66	Manganese-induced salt stress tolerance in rice seedlings: regulation of ion homeostasis, antioxidant defense and glyoxalase systems. Physiology and Molecular Biology of Plants, 2016, 22, 291-306.	1.4	112
67	Exogenous glutathione attenuates lead-induced oxidative stress in wheat by improving antioxidant defense and physiological mechanisms. Journal of Plant Interactions, 2018, 13, 203-212.	1.0	109
68	Potassium in plants: Growth regulation, signaling, and environmental stress tolerance. Plant Physiology and Biochemistry, 2022, 172, 56-69.	2.8	109
69	Jute: A Potential Candidate for Phytoremediation of Metalsâ€”A Review. Plants, 2020, 9, 258.	1.6	102
70	Physiological and biochemical mechanisms of spermine-induced cadmium stress tolerance in mung bean (Vigna radiata L.) seedlings. Environmental Science and Pollution Research, 2016, 23, 21206-21218.	2.7	100
71	Chitosan biopolymer promotes yield and stimulates accumulation of antioxidants in strawberry fruit. PLoS ONE, 2018, 13, e0203769.	1.1	99
72	Nitric oxide mediates hydrogen peroxide- and salicylic acid-induced salt tolerance in rice (Oryza sativa) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.8	98

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73	Insights into spermine-induced combined high temperature and drought tolerance in mung bean: osmoregulation and roles of antioxidant and glyoxalase system. Protoplasma, 2017, 254, 445-460.	1.0	98
74	Effect of Tillage Practices on Soil Properties and Crop Productivity in Wheat-Mungbean-Rice Cropping System under Subtropical Climatic Conditions. Scientific World Journal, The, 2014, 2014, 1-15.	0.8	97
75	Melatonin-Induced Water Stress Tolerance in Plants: Recent Advances. Antioxidants, 2020, 9, 809.	2.2	95
76	Exogenous vanillic acid enhances salt tolerance of tomato: Insight into plant antioxidant defense and glyoxalase systems. Plant Physiology and Biochemistry, 2020, 150, 109-120.	2.8	94
77	Î³-aminobutyric acid (GABA) confers chromium stress tolerance in Brassica juncea L. by modulating the antioxidant defense and glyoxalase systems. Ecotoxicology, 2017, 26, 675-690.	1.1	92
78	Proline Protects Plants Against Abiotic Oxidative Stress. , 2014, , 477-522.		89
79	Metal/Metalloid-Based Nanomaterials for Plant Abiotic Stress Tolerance: An Overview of the Mechanisms. Plants, 2022, 11, 316.	1.6	85
80	Coordinate induction of antioxidant defense and glyoxalase system by exogenous proline and glycinebetaine is correlated with salt tolerance in mung bean. Frontiers of Agriculture in China, 2011, 5, 1-14.	0.2	84
81	Calcium Mitigates Arsenic Toxicity in Rice Seedlings by Reducing Arsenic Uptake and Modulating the Antioxidant Defense and Glyoxalase Systems and Stress Markers. BioMed Research International, 2015, 2015, 1-12.	0.9	84
82	Glycine Betaine Accumulation, Significance and Interests for Heavy Metal Tolerance in Plants. Plants, 2020, 9, 896.	1.6	84
83	Biostimulants for the Regulation of Reactive Oxygen Species Metabolism in Plants under Abiotic Stress. Cells, 2021, 10, 2537.	1.8	84
84	Exogenous calcium alleviates cadmium-induced oxidative stress in rice (Oryza sativa L.) seedlings by regulating the antioxidant defense and glyoxalase systems. Revista Brasileira De Botanica, 2016, 39, 393-407.	0.5	83
85	Polyamines-induced aluminum tolerance in mung bean: A study on antioxidant defense and methylglyoxal detoxification systems. Ecotoxicology, 2017, 26, 58-73.	1.1	83
86	Oxidative Damage and Antioxidant Defense in Sesamum indicum after Different Waterlogging Durations. Plants, 2019, 8, 196.	1.6	83
87	Physiological and Biochemical Mechanisms of Nitric Oxide Induced Abiotic Stress Tolerance in Plants. American Journal of Plant Physiology, 2010, 5, 295-324.	0.2	81
88	Role of Melatonin in Plant Tolerance to Soil Stressors: Salinity, pH and Heavy Metals. Molecules, 2020, 25, 5359.	1.7	79
89	Maleic acid assisted improvement of metal chelation and antioxidant metabolism confers chromium tolerance in Brassica juncea L.. Ecotoxicology and Environmental Safety, 2017, 144, 216-226.	2.9	77
90	Silicon-induced antioxidant defense and methylglyoxal detoxification works coordinately in alleviating nickel toxicity in Oryza sativa L.. Ecotoxicology, 2019, 28, 261-276.	1.1	77

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91	Mechanism of Plant Growth Promotion and Disease Suppression by Chitosan Biopolymer. Agriculture (Switzerland), 2020, 10, 624.	1.4	77
92	Exogenous Spermidine Alleviates Low Temperature Injury in Mung Bean (Vigna radiata L.) Seedlings by Modulating Ascorbate-Glutathione and Glyoxalase Pathway. International Journal of Molecular Sciences, 2015, 16, 30117-30132.	1.8	75
93	Modulation of Antioxidant Machinery and the Methylglyoxal Detoxification System in Selenium-Supplemented Brassica napus Seedlings Confers Tolerance to High Temperature Stress. Biological Trace Element Research, 2014, 161, 297-307.	1.9	73
94	Exogenous nitric oxide pretreatment protects Brassica napus L. seedlings from paraquat toxicity through the modulation of antioxidant defense and glyoxalase systems. Plant Physiology and Biochemistry, 2018, 126, 173-186.	2.8	73
95	Interaction of sulfur with phytohormones and signaling molecules in conferring abiotic stress tolerance to plants. Plant Signaling and Behavior, 2018, 13, e1477905.	1.2	71
96	Quercetin Mediated Salt Tolerance in Tomato through the Enhancement of Plant Antioxidant Defense and Glyoxalase Systems. Plants, 2019, 8, 247.	1.6	71
97	Mechanistic Insights of Plant Growth Promoting Bacteria Mediated Drought and Salt Stress Tolerance in Plants for Sustainable Agriculture. International Journal of Molecular Sciences, 2022, 23, 3741.	1.8	71
98	Manganese-induced cadmium stress tolerance in rice seedlings: Coordinated action of antioxidant defense, glyoxalase system and nutrient homeostasis. Comptes Rendus - Biologies, 2016, 339, 462-474.	0.1	69
99	Quantification of Climate Warming and Crop Management Impacts on Cotton Phenology. Plants, 2017, 6, 7.	1.6	69
100	Exogenous nitric oxide donor and arginine provide protection againstÂshort-term drought stress in wheat seedlings. Physiology and Molecular Biology of Plants, 2018, 24, 993-1004.	1.4	69
101	Heavy metal and metalloid toxicity in horticultural plants: Tolerance mechanism and remediation strategies. Chemosphere, 2022, 303, 135196.	4.2	68
102	Purification of Glyoxalase I from Onion Bulbs and Molecular Cloning of Its cDNA. Bioscience, Biotechnology and Biochemistry, 2009, 73, 2007-2013.	0.6	67
103	Nitric oxide pretreatment enhances antioxidant defense and glyoxalase systems to confer PEG-induced oxidative stress in rapeseed. Journal of Plant Interactions, 2017, 12, 323-331.	1.0	67
104	Approaches in Enhancing Thermotolerance in Plants: An Updated Review. Journal of Plant Growth Regulation, 2020, 39, 456-480.	2.8	67
105	Nitric oxide and hydrogen sulfide: two intimate collaborators regulating plant defense against abiotic stress. Plant Growth Regulation, 2020, 90, 409-424.	1.8	67
106	Application of the CSM-CERES-Rice model for evaluation of plant density and nitrogen management of fine transplanted rice for an irrigated semiarid environment. Precision Agriculture, 2012, 13, 200-218.	3.1	66
107	EFFECTS OF DROUGHT STRESS ON THE QUALITY OF MAJOR OILSEED CROPS: IMPLICATIONS AND POSSIBLE MITIGATION STRATEGIES â€“ A REVIEW. Applied Ecology and Environmental Research, 2019, 17, 4019-4043.	0.2	65
108	Interactive Effects of Salicylic Acid and Nitric Oxide in Enhancing Rice Tolerance to Cadmium Stress. International Journal of Molecular Sciences, 2019, 20, 5798.	1.8	63

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109	Enhancing Plant Productivity Under Salt Stress: Relevance of Poly-omics. , 2013, , 113-156.		61
110	Exogenous Silicon Protects Brassica napus Plants from Salinity-Induced Oxidative Stress Through the Modulation of AsA-GSH Pathway, Thiol-Dependent Antioxidant Enzymes and Glyoxalase Systems. Gesunde Pflanzen, 2018, 70, 185-194.	1.7	61
111	Selenium biofortification enhances the growth and alters the physiological response of lamb's lettuce grown under high temperature stress. Plant Physiology and Biochemistry, 2018, 127, 446-456.	2.8	60
112	Salicylic acid antagonizes selenium phytotoxicity in rice: selenium homeostasis, oxidative stress metabolism and methylglyoxal detoxification. Journal of Hazardous Materials, 2020, 394, 122572.	6.5	59
113	World Cotton Production and Consumption: An Overview. , 2020, , 1-7.		58
114	Attenuation of Drought Stress in Brassica Seedlings with Exogenous Application of Ca2+ and H2O2. Plants, 2017, 6, 20.	1.6	57
115	Pretreatment with Trichoderma harzianum alleviates waterlogging-induced growth alterations in tomato seedlings by modulating physiological, biochemical, and molecular mechanisms. Environmental and Experimental Botany, 2020, 171, 103946.	2.0	57
116	Exogenous melatonin enhances the reactive oxygen species metabolism, antioxidant defenseâ€related gene expression, and photosynthetic capacity of <scp>Phaseolus vulgaris</scp> L. to confer salt stress tolerance. Physiologia Plantarum, 2021, 173, 1369-1381.	2.6	57
117	Polyamine Action under Metal/Metalloid Stress: Regulation of Biosynthesis, Metabolism, and Molecular Interactions. International Journal of Molecular Sciences, 2019, 20, 3215.	1.8	56
118	Selenium Toxicity in Plants and Environment: Biogeochemistry and Remediation Possibilities. Plants, 2020, 9, 1711.	1.6	56
119	Exogenous Melatonin Modulates the Physiological and Biochemical Mechanisms of Drought Tolerance in Tartary Buckwheat (Fagopyrum tataricum (L.) Gaertn). Molecules, 2020, 25, 2828.	1.7	55
120	Arsenic and Human Health: Genotoxicity, Epigenomic Effects, and Cancer Signaling. Biological Trace Element Research, 2022, 200, 988-1001.	1.9	55
121	Physiological Role of Nitric Oxide in Plants Grown Under Adverse Environmental Conditions. , 2013, , 269-322.		54
122	Phenological Variation and its Relation with Yield in several Wheat (Triticum aestivum L.) Cultivars under Normal and Late Sowing Mediated Heat Stress Condition. Notulae Scientia Biologicae, 2010, 2, 51-56.	0.1	52
123	Roles of Osmolytes in Plant Adaptation to Drought and Salinity. , 2016, , 37-68.		51
124	Trehalose Protects Maize Plants from Salt Stress and Phosphorus Deficiency. Plants, 2019, 8, 568.	1.6	51
125	Omics: The way forward to enhance abiotic stress tolerance inBrassica napusL. GM Crops and Food, 2021, 12, 251-281.	2.0	51
126	Insights into acetate-mediated copper homeostasis and antioxidant defense in lentil under excessive copper stress. Environmental Pollution, 2020, 258, 113544.	3.7	50

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127	Comparative Physiological and Biochemical Changes in Tomato (Solanum lycopersicum L.) Under Salt Stress and Recovery: Role of Antioxidant Defense and Glyoxalase Systems. Antioxidants, 2019, 8, 350.	2.2	49
128	Application of the CSM-CERES-Rice model for evaluation of plant density and irrigation management of transplanted rice for an irrigated semiarid environment. Irrigation Science, 2013, 31, 491-506.	1.3	46
129	GABA shunt: a key-player in mitigation of ROS during stress. Plant Growth Regulation, 2021, 94, 131-149.	1.8	44
130	Nitric Oxide Regulates Plant Growth, Physiology, Antioxidant Defense, and Ion Homeostasis to Confer Salt Tolerance in the Mangrove Species, Kandelia obovata. Antioxidants, 2021, 10, 611.	2.2	43
131	Patterns of change in soil organic matter, physical properties and crop productivity under tillage practices and cropping systems in Bangladesh. Journal of Agricultural Science, 2017, 155, 216-238.	0.6	41
132	Heavy Metals in the Environment. , 2012, , 7-74.		40
133	Arsenic-Induced Oxidative Stress and Antioxidant Defense in Plants. Stresses, 2022, 2, 179-209.	1.8	40
134	Pretreatment of wheat (Triticum aestivum L.) seedlings with 2,4-D improves tolerance to salinity-induced oxidative stress and methylglyoxal toxicity by modulating ion homeostasis, antioxidant defenses, and glyoxalase systems. Plant Physiology and Biochemistry, 2020, 152, 221-231.	2.8	38
135	Purification and Characterization of a Cd-Binding Complex from the Root Tissue of Water Hyacinth Cultivated in a Cd2+-Containing Medium. Plant and Cell Physiology, 1986, 27, 1317-1325.	1.5	36
136	Modulation of Pumpkin Glutathione S-Transferases by Aldehydes and Related Compounds. Plant and Cell Physiology, 2003, 44, 481-490.	1.5	36
137	Mitigation of PEG-induced drought stress in rapeseed (Brassica rapa L.) by exogenous application of osmolytes. Biocatalysis and Agricultural Biotechnology, 2019, 20, 101197.	1.5	36
138	Alleviation of osmotic stress in Brassica napus, B. campestris, and B. juncea by ascorbic acid application. Biologia Plantarum, 2014, 58, 697-708.	1.9	35
139	Drought Stress Induced Oxidative Damage and Antioxidants in Plants. , 2014, , 345-367.		35
140	Interactive effects of nitric oxide and glutathione in mitigating copper toxicity of rice (<i>Oryza) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	1.2	35
141	5-aminolevulinic acid-mediated plant adaptive responses to abiotic stress. Plant Cell Reports, 2021, 40, 1451-1469.	2.8	35
142	Integrated Effect of Plant Density, N Rates and Irrigation Regimes on the Biomass Production, N Content, PAR Use Efficiencies and Water Productivity of Rice Under Irrigated Semiarid Environment. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 2012, 40, 201.	0.5	34
143	Approaches to Enhancing Antioxidant Defense in Plants. Antioxidants, 2022, 11, 925.	2.2	34
144	Plant Responses and Tolerance to High Temperature Stress: Role of Exogenous Phytoprotectants. , 2015, , 385-435.		33

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145	<b>Cotton productivity enhanced through transplanting and early sowing. Acta Scientiarum - Biological Sciences, 2018, 40, 34610.	0.3	33
146	Fe toxicity in plants: Impacts and remediation. Physiologia Plantarum, 2021, 173, 201-222.	2.6	33
147	Heat-shock positively modulates oxidative protection of salt and drought-stressed mustard (Brassica) Tj ETQq1 1 0.784314 rgBT /Ove	1.2	33
148	Supplemental Selenium and Boron Mitigate Salt-Induced Oxidative Damages in Glycine max L.. Plants, 2021, 10, 2224.	1.6	33
149	Plant Responses and Tolerance to Salt Stress: Physiological and Molecular Interventions. International Journal of Molecular Sciences, 2022, 23, 4810.	1.8	33
150	Saponin biopriming positively stimulates antioxidants defense, osmolytes metabolism and ionic status to confer salt stress tolerance in soybean. Acta Physiologiae Plantarum, 2020, 42, 1.	1.0	32
151	Strigolactones regulate arsenate uptake, vacuolar-sequestration and antioxidant defense responses to resist arsenic toxicity in rice roots. Journal of Hazardous Materials, 2021, 415, 125589.	6.5	32
152	Arsenic Toxicity in Plants and Possible Remediation. , 2015, , 433-501.		31
153	Acetate-induced modulation of ascorbate: glutathione cycle and restriction of sodium accumulation in shoot confer salt tolerance in Lens culinaris Medik.. Physiology and Molecular Biology of Plants, 2019, 25, 443-455.	1.4	31
154	Physiological and Molecular Responses for Metalloid Stress in Riceâ€"A Comprehensive Overview. , 2019, , 341-369.		31
155	Rice (Oryza sativa L.) Establishment Techniques and Their Implications for Soil Properties, Global Warming Potential Mitigation and Crop Yields. Agronomy, 2020, 10, 888.	1.3	31
156	Seed Germination Behavior, Growth, Physiology and Antioxidant Metabolism of Four Contrasting Cultivars under Combined Drought and Salinity in Soybean. Antioxidants, 2022, 11, 498.	2.2	31
157	Assessment of genetic diversity in salt-tolerant rice and its wild relatives for ten SSR loci and one allele mining primer of salT gene located on 1st chromosome. Plant Systematics and Evolution, 2014, 300, 1741-1747.	0.3	30
158	Modulation of Cadmium Tolerance in Rice: Insight into Vanillic Acid-Induced Upregulation of Antioxidant Defense and Glyoxalase Systems. Plants, 2020, 9, 188.	1.6	30
159	Exogenous Tebuconazole and Trifloxystrobin Regulates Reactive Oxygen Species Metabolism Toward Mitigating Salt-Induced Damages in Cucumber Seedling. Plants, 2019, 8, 428.	1.6	29
160	Suitability Evaluation of Groundwater for Irrigation, Drinking and Industrial Purposes. American Journal of Environmental Sciences, 2009, 5, 413-419.	0.3	29
161	Exogenous Proline and Betaine-induced Upregulation of Glutathione Transferase and Glyoxalase I in Lentil (<i>Lens culinaris</i>) under Drought Stress. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 2014, 42, .	0.5	28
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