Mirza Hasanuzzaman

List of Publications by Citations

287 papers	13,803 citations	63 h-index	110 g-index
312 ext. papers	18,673 ext. citations	4 avg, IF	7.22 L-index

#	Paper	IF	Citations
287	Physiological, biochemical, and molecular mechanisms of heat stress tolerance in plants. *International Journal of Molecular Sciences*, **2013**, 14, 9643-84	6.3	1005
286	Reactive Oxygen Species and Antioxidant Defense in Plants under Abiotic Stress: Revisiting the Crucial Role of a Universal Defense Regulator. *Antioxidants*, **2020**, 9,	7.1	453
285	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	0	423
284	Hydrogen peroxide priming modulates abiotic oxidative stress tolerance: insights from ROS detoxification and scavenging. *Frontiers in Plant Science*, **2015**, 6, 420	6.2	389
283	Glutathione and glutathione reductase: a boon in disguise for plant abiotic stress defense operations. *Plant Physiology and Biochemistry*, **2013**, 70, 204-12	5.4	288
282	Glutathione in plants: biosynthesis and physiological role in environmental stress tolerance. *Physiology and Molecular Biology of Plants*, **2017**, 23, 249-268	2.8	270
281	Plant Response and Tolerance to Abiotic Oxidative Stress: Antioxidant Defense Is a Key Factor **2012**, 261-315		269
280	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	2.5	252
279	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, 1758-76	4.5	248
278	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, 259-72	2.8	247
277	Regulation of Ascorbate-Glutathione Pathway in Mitigating Oxidative Damage in Plants under Abiotic Stress. *Antioxidants*, **2019**, 8,	7.1	244
276	Potassium: A Vital Regulator of Plant Responses and Tolerance to Abiotic Stresses. *Agronomy*, **2018**, 8, 31	3.6	218
275	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	5.4	203
274	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	7	198
273	Exogenous sodium nitroprusside alleviates arsenic-induced oxidative stress in wheat (Triticum aestivum L.) seedlings by enhancing antioxidant defense and glyoxalase system. *Ecotoxicology*, **2013**, 22, 584-96	2.9	181
272	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, 1704-21	4.5	181
271	Salicylic acid alleviates copper toxicity in rice (Oryza sativa L.) seedlings by up-regulating antioxidative and glyoxalase systems. *Ecotoxicology*, **2013**, 22, 959-73	2.9	173

270	Plant Response to Salt Stress and Role of Exogenous Protectants to Mitigate Salt-Induced Damages **2013**, 25-87		172
269	Potential use of halophytes to remediate saline soils. *BioMed Research International*, **2014**, 2014, 589341	3	170
268	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, 248-61	4.5	170
267	Hydrogen sulfide modulates cadmium-induced physiological and biochemical responses to alleviate cadmium toxicity in rice. *Scientific Reports*, **2015**, 5, 14078	4.9	164
266	Importance of nitric oxide in cadmium stress tolerance in crop plants. *Plant Physiology and Biochemistry*, **2013**, 63, 254-61	5.4	162
265	Superoxide dismutase--mentor of abiotic stress tolerance in crop plants. *Environmental Science and Pollution Research*, **2015**, 22, 10375-94	5.1	160
264	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	5.9	158
263	Exogenous proline and glycine betaine mediated upregulation of antioxidant defense and glyoxalase systems provides better protection against salt-induced oxidative stress in two rice (Oryza sativa L.) varieties. *BioMed Research International*, **2014**, 2014, 757219	3	145
262	Catalase and ascorbate peroxidase-representative H2O2-detoxifying heme enzymes in plants. *Environmental Science and Pollution Research*, **2016**, 23, 19002-29	5.1	136
261	Coordinated Actions of Glyoxalase and Antioxidant Defense Systems in Conferring Abiotic Stress Tolerance in Plants. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	132
260	Methylglyoxal: An Emerging Signaling Molecule in Plant Abiotic Stress Responses and Tolerance. *Frontiers in Plant Science*, **2016**, 7, 1341	6.2	121
259	Exogenous sodium nitroprusside and glutathione alleviate copper toxicity by reducing copper uptake and oxidative damage in rice (Oryza sativa L.) seedlings. *Protoplasma*, **2014**, 251, 1373-86	3.4	117
258	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	6.2	117
257	Jacks of metal/metalloid chelation trade in plants-an overview. *Frontiers in Plant Science*, **2015**, 6, 192	6.2	110
256	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	7	109
255	Spermidine pretreatment enhances heat tolerance in rice seedlings through modulating antioxidative and glyoxalase systems. *Plant Growth Regulation*, **2014**, 73, 31-44	3.2	109
254	Application of Floating Aquatic Plants in Phytoremediation of Heavy Metals Polluted Water: A Review. *Sustainability*, **2020**, 12, 1927	3.6	107
253	Nitric oxide-induced salt stress tolerance in plants: ROS metabolism, signaling, and molecular interactions. *Plant Biotechnology Reports*, **2018**, 12, 77-92	2.5	107

252	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	2.8	107
251	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	6.2	105
250	Selenium in Higher Plants: Physiological Role, Antioxidant Metabolism and Abiotic Stress Tolerance. *Journal of Plant Sciences*, **2010**, 5, 354-375	0.2	104
249	Abiotic Stress and Reactive Oxygen Species: Generation, Signaling, and Defense Mechanisms. *Antioxidants*, **2021**, 10,	7.1	101
248	Physiological and biochemical mechanisms associated with trehalose-induced copper-stress tolerance in rice. *Scientific Reports*, **2015**, 5, 11433	4.9	99
247	Calcium Supplementation Improves Na(+)/K(+) Ratio, Antioxidant Defense and Glyoxalase Systems in Salt-Stressed Rice Seedlings. *Frontiers in Plant Science*, **2016**, 7, 609	6.2	98
246	Heat or cold priming-induced cross-tolerance to abiotic stresses in plants: key regulators and possible mechanisms. *Protoplasma*, **2018**, 255, 399-412	3.4	98
245	Exogenous Silicon Attenuates Cadmium-Induced Oxidative Stress in L. by Modulating AsA-GSH Pathway and Glyoxalase System. *Frontiers in Plant Science*, **2017**, 8, 1061	6.2	97
244	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, 461-75	3.4	96
243	Metal/metalloid stress tolerance in plants: role of ascorbate, its redox couple, and associated enzymes. *Protoplasma*, **2014**, 251, 1265-83	3.4	96
242	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	2.5	93
241	ATP-sulfurylase, sulfur-compounds, and plant stress tolerance. *Frontiers in Plant Science*, **2015**, 6, 210	6.2	92
240	Glutathione-induced drought stress tolerance in mung bean: coordinated roles of the antioxidant defence and methylglyoxal detoxification systems. *AoB PLANTS*, **2015**, 7,	2.9	88
239	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	2.9	84
238	Phenotypical, physiological and biochemical analyses provide insight into selenium-induced phytotoxicity in rice plants. *Chemosphere*, **2017**, 178, 212-223	8.4	81
237	Hydrogen Peroxide Pretreatment Mitigates Cadmium-Induced Oxidative Stress in L.: An Intrinsic Study on Antioxidant Defense and Glyoxalase Systems. *Frontiers in Plant Science*, **2017**, 8, 115	6.2	81
236	Roles of exogenous glutathione in antioxidant defense system and methylglyoxal detoxification during salt stress in mung bean. *Biologia Plantarum*, **2015**, 59, 745-756	2.1	78
235	Nitric oxide mediates hydrogen peroxide- and salicylic acid-induced salt tolerance in rice (Oryza sativa L.) seedlings. *Plant Growth Regulation*, **2015**, 77, 265-277	3.2	76

234	Exogenous glutathione attenuates lead-induced oxidative stress in wheat by improving antioxidant defense and physiological mechanisms. *Journal of Plant Interactions*, **2018**, 13, 203-212	3.8	74
233	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	2.8	74
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231	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	5.1	73
230	Extreme Temperature Responses, Oxidative Stress and Antioxidant Defense in Plants **2013**,		72
229	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	5.8	70
228	Physiological and Biochemical Mechanisms of Nitric Oxide Induced Abiotic Stress Tolerance in Plants. *American Journal of Plant Physiology*, **2010**, 5, 295-324	0	68
227	Methylglyoxal - a signaling molecule in plant abiotic stress responses. *Free Radical Biology and Medicine*, **2018**, 122, 96-109	7.8	66
226	Polyamines-induced aluminum tolerance in mung bean: A study on antioxidant defense and methylglyoxal detoxification systems. *Ecotoxicology*, **2017**, 26, 58-73	2.9	66
225	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	3.4	65
224	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		61
223	Jute: A Potential Candidate for Phytoremediation of Metals-A Review. *Plants*, **2020**, 9,	4.5	60
222	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	4.5	60
221	Selenium in plants: Boon or bane?. *Environmental and Experimental Botany*, **2020**, 178, 104170	5.9	59
220	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	1.2	59
219	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	5.6	58
218	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, 340812	3	57
217	Proline Protects Plants Against Abiotic Oxidative Stress: Biochemical and Molecular Mechanisms **2014**, 477-522		57

216	Chitosan biopolymer promotes yield and stimulates accumulation of antioxidants in strawberry fruit. *PLoS ONE*, **2018**, 13, e0203769	3.7	57
215	aminobutyric acid (GABA) confers chromium stress tolerance in Brassica juncea L. by modulating the antioxidant defense and glyoxalase systems. *Ecotoxicology*, **2017**, 26, 675-690	2.9	56
214	Phytoremediation of Cadmium: Physiological, Biochemical, and Molecular Mechanisms. *Biology*, **2020**, 9,	4.9	56
213	Regulation of ROS Metabolism in Plants under Environmental Stress: A Review of Recent Experimental Evidence. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	55
212	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, 30117-32	6.3	54
211	Purification of glyoxalase I from onion bulbs and molecular cloning of its cDNA. *Bioscience, Biotechnology and Biochemistry*, **2009**, 73, 2007-13	2.1	53
210	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	5.4	50
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208	Drought Stress Responses in Plants, Oxidative Stress, and Antioxidant Defense **2013**, 209-250		47
207	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, 437283	2.2	46
206	Seed Priming with Phytohormones: An Effective Approach for the Mitigation of Abiotic Stress. *Plants*, **2020**, 10,	4.5	46
205	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	7	45
204	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	3.4	45
203	Exogenous vanillic acid enhances salt tolerance of tomato: Insight into plant antioxidant defense and glyoxalase systems. *Plant Physiology and Biochemistry*, **2020**, 150, 109-120	5.4	45
202	Enhancing Plant Productivity Under Salt Stress: Relevance of Poly-omics **2013**, 113-156		44
201	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	3.8	44
200	Interaction of sulfur with phytohormones and signaling molecules in conferring abiotic stress tolerance to plants. *Plant Signaling and Behavior*, **2018**, 13, e1477905	2.5	43
199	Physiological Role of Nitric Oxide in Plants Grown Under Adverse Environmental Conditions **2013**, 269-322		42

198	Osmoregulation and its actions during the drought stress in plants. *Physiologia Plantarum*, **2021**, 172, 1321-1335	4.6	40
197	Exogenous nitric oxide donor and arginine provide protection against short-term drought stress in wheat seedlings. *Physiology and Molecular Biology of Plants*, **2018**, 24, 993-1004	2.8	40
196	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	3.1	39
195	Attenuation of Drought Stress in Brassica Seedlings with Exogenous Application of Ca and H *Plants*, **2017**, 6,	4.5	39
194	Selenium biofortification enhances the growth and alters the physiological response of lamb lettuce grown under high temperature stress. *Plant Physiology and Biochemistry*, **2018**, 127, 446-456	5.4	38
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192	Jasmonic acid: a key frontier in conferring abiotic stress tolerance in plants. *Plant Cell Reports*, **2021**, 40, 1513-1541	5.1	38
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190	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	1.9	37
189	Polyamine Action under Metal/Metalloid Stress: Regulation of Biosynthesis, Metabolism, and Molecular Interactions. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	37
188	EFFECTS OF DROUGHT STRESS ON THE QUALITY OF MAJOR OILSEED CROPS: IMPLICATIONS AND POSSIBLE MITIGATION STRATEGIES A REVIEW. *Applied Ecology and Environmental Research*, **2019**, 17, 4019-4043	1.9	37
187	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	5.9	37
186	Glycine Betaine Accumulation, Significance and Interests for Heavy Metal Tolerance in Plants. *Plants*, **2020**, 9,	4.5	37
185	Interactive Effects of Salicylic Acid and Nitric Oxide in Enhancing Rice Tolerance to Cadmium Stress. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	37
184	Nitric oxide and hydrogen sulfide: two intimate collaborators regulating plant defense against abiotic stress. *Plant Growth Regulation*, **2020**, 90, 409-424	3.2	34
183	Oxidative Damage and Antioxidant Defense in after Different Waterlogging Durations. *Plants*, **2019**, 8,	4.5	34
182	Roles of Osmolytes in Plant Adaptation to Drought and Salinity **2016**, 37-68		33
181	Quercetin Mediated Salt Tolerance in Tomato through the Enhancement of Plant Antioxidant Defense and Glyoxalase Systems. *Plants*, **2019**, 8,	4.5	33

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179	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	4.9	33
178	Heavy Metals in the Environment **2012**, 7-74		33
177	Salicylic acid antagonizes selenium phytotoxicity in rice: selenium homeostasis, oxidative stress metabolism and methylglyoxal detoxification. *Journal of Hazardous Materials*, **2020**, 394, 122572	12.8	32
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175	Mechanism of Plant Growth Promotion and Disease Suppression by Chitosan Biopolymer. *Agriculture (Switzerland)*, **2020**, 10, 624	3	31
174	Approaches in Enhancing Thermotolerance in Plants: An Updated Review. *Journal of Plant Growth Regulation*, **2020**, 39, 456-480	4.7	31
173	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	1	30
172	Alleviation of osmotic stress in Brassica napus, B. campestris, and B. juncea by ascorbic acid application. *Biologia Plantarum*, **2014**, 58, 697-708	2.1	30
171	Modulation of pumpkin glutathione S-transferases by aldehydes and related compounds. *Plant and Cell Physiology*, **2003**, 44, 481-90	4.9	30
170	Melatonin-Induced Water Stress Tolerance in Plants: Recent Advances. *Antioxidants*, **2020**, 9,	7.1	29
169	Cotton productivity enhanced through transplanting and early sowing. *Acta Scientiarum - Biological Sciences*, **2018**, 40, 34610	0.3	29
168	Mitigation of PEG-induced drought stress in rapeseed (Brassica rapa L.) by exogenous application of osmolytes. *Biocatalysis and Agricultural Biotechnology*, **2019**, 20, 101197	4.2	27
167	Oxidative Stress and Antioxidant Metabolism under Adverse Environmental Conditions: a Review. *Botanical Review, The*, **2020**, 1	3.8	26
166	Interactive effects of nitric oxide and glutathione in mitigating copper toxicity of rice (Oryza sativa L.) seedlings. *Plant Signaling and Behavior*, **2015**, 10, e991570	2.5	25
165	Role of Melatonin in Plant Tolerance to Soil Stressors: Salinity, pH and Heavy Metals. *Molecules*, **2020**, 25,	4.8	25
164	Regulation of Reactive Oxygen Species and Antioxidant Defense in Plants under Salinity. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	25
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161	World Cotton Production and Consumption: An Overview **2020**, 1-7		24
160	Plant Responses and Tolerance to High Temperature Stress: Role of Exogenous Phytoprotectants **2015**, 385-435		23
159	Insights into acetate-mediated copper homeostasis and antioxidant defense in lentil under excessive copper stress. *Environmental Pollution*, **2020**, 258, 113544	9.3	23
158	Omics: The way forward to enhance abiotic stress tolerance in L. *GM Crops and Food*, **2021**, 12, 251-281	2.7	22
157	Comparative Physiological and Biochemical Changes in Tomato (L.) Under Salt Stress and Recovery: Role of Antioxidant Defense and Glyoxalase Systems. *Antioxidants*, **2019**, 8,	7.1	21
156	Drought Stress Induced Oxidative Damage and Antioxidants in Plants **2014**, 345-367		21
155	Exogenous Proline and Betaine-induced Upregulation of Glutathione Transferase and Glyoxalase I in Lentil (Lens culinaris) under Drought Stress. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, **2014**, 42,	1.2	21
154	Physiological and Molecular Responses for Metalloid Stress in RiceÂ A Comprehensive Overview **2019**, 341-369		21
153	Acetate-induced modulation of ascorbate: glutathione cycle and restriction of sodium accumulation in shoot confer salt tolerance in Medik. *Physiology and Molecular Biology of Plants*, **2019**, 25, 443-455	2.8	20
152	Saponin biopriming positively stimulates antioxidants defense, osmolytes metabolism and ionic status to confer salt stress tolerance in soybean. *Acta Physiologiae Plantarum*, **2020**, 42, 1	2.6	19
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149	Use of iso-osmotic solution to understand salt stress responses in lentil (Lens culinaris Medik.). *South African Journal of Botany*, **2017**, 113, 346-354	2.9	18
148	Exogenous Melatonin Modulates the Physiological and Biochemical Mechanisms of Drought Tolerance in Tartary Buckwheat ((L.) Gaertn). *Molecules*, **2020**, 25,	4.8	17
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146	GABA shunt: a key-player in mitigation of ROS during stress. *Plant Growth Regulation*, **2021**, 94, 131-149	3.2	17
145	Trehalose Protects Maize Plants from Salt Stress and Phosphorus Deficiency. *Plants*, **2019**, 8,	4.5	16

144	Rice (Oryza sativa L.) Establishment Techniques and Their Implications for Soil Properties, Global Warming Potential Mitigation and Crop Yields. *Agronomy*, **2020**, 10, 888	3.6	15
143	Relative tolerance of different species of Brassica to cadmium toxicity: Coordinated role of antioxidant defense and glyoxalase systems. *Plant OMICS*, **2017**, 10, 107-117	0.7	15
142	Foliar application of salicylic acid improves growth and yield attributes by upregulating the antioxidant defense system in Brassica campestris plants grown in lead-amended soils. *Acta Agrobotanica*, **2019**, 72,	2.4	15
141	Role of selenium in mitigation of cadmium toxicity in pepper grown in hydroponic condition. *Journal of Plant Nutrition*, **2017**, 40, 761-772	2.3	14
140	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	5.4	14
139	Modulation of Cadmium Tolerance in Rice: Insight into Vanillic Acid-Induced Upregulation of Antioxidant Defense and Glyoxalase Systems. *Plants*, **2020**, 9,	4.5	14
138	Soybean Production and Environmental Stresses **2016**, 61-102		14
137	Recent Advances in Biotechnology and Genomic Approaches for Abiotic Stress Tolerance in Crop Plants **2015**, 333-366		14
136	Role of Tocopherol (Vitamin E) in Plants **2014**, 267-289		14
135	Exogenous melatonin enhances the reactive oxygen species metabolism, antioxidant defense-related gene expression, and photosynthetic capacity of Phaseolus vulgaris L. to confer salt stress tolerance. *Physiologia Plantarum*, **2021**, 173, 1369-1381	4.6	14
134	Soil parameters, onion growth, physiology, biochemical and mineral nutrient composition in response to colored polythene film mulches. *Annals of Agricultural Sciences*, **2019**, 64, 63-70	6.4	13
133	Selenium Toxicity in Plants and Environment: Biogeochemistry and Remediation Possibilities. *Plants* , **2020**, 9,	4.5	13
132	Drought Stress Tolerance in Wheat: Omics Approaches in Understanding and Enhancing Antioxidant Defense **2018**, 267-307		13
131	Silicon and Selenium **2014**, 377-422		13
130	Plant growth regulator interactions results enhancement of antioxidant enzymes in Catharanthus roseus. *Journal of Plant Interactions*, **2010**, 5, 135-145	3.8	13
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126	Targeting the Redox Regulatory Mechanisms for Abiotic Stress Tolerance in Crops **2018**, 151-220		12
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124	Metal/Metalloid-Based Nanomaterials for Plant Abiotic Stress Tolerance: An Overview of the Mechanisms.. *Plants*, **2022**, 11,	4.5	12
123	Targeting Glycinebetaine for Abiotic Stress Tolerance in Crop Plants: Physiological Mechanism, Molecular Interaction and Signaling. *Phyton*, **2019**, 88, 185-221	2.1	12
122	Arsenic and Human Health: Genotoxicity, Epigenomic Effects, and Cancer Signaling. *Biological Trace Element Research*, **2021**, 1	4.5	12
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