

# Mirza Hasanuzzaman

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Screening of Soybean Genotypes for Waterlogging Stress Tolerance and Understanding the Physiological Mechanisms. <i>Advances in Agriculture</i> , <b>2022</b> , 2022, 1-14	1.1	0
286	Exogenous salicylic acid and kinetin modulate reactive oxygen species metabolism and glyoxalase system to confer waterlogging stress tolerance in soybean ( <i>Glycine max</i> L.). <i>Plant Stress</i> , <b>2022</b> , 3, 100057		1
285	Metal/Metalloid-Based Nanomaterials for Plant Abiotic Stress Tolerance: An Overview of the Mechanisms.. <i>Plants</i> , <b>2022</b> , 11,	4.5	12
284	Cytokinin and gibberellic acid-mediated waterlogging tolerance of mungbean ( <i>L. Wilczek</i> ).. <i>PeerJ</i> , <b>2022</b> , 10, e12862	3.1	1
283	Potassium in plants: Growth regulation, signaling, and environmental stress tolerance.. <i>Plant Physiology and Biochemistry</i> , <b>2022</b> , 172, 56-69	5.4	11
282	Soybean Plants Under Waterlogging Stress: Responses and Adaptation Mechanisms <b>2022</b> , 103-134		1
281	Plant Phenolic Compounds for Abiotic Stress Tolerance <b>2022</b> , 193-237		0
280	World Rice Production: An Overview <b>2022</b> , 3-12		
279	Nanotechnology for Rice Fungal Diseases <b>2022</b> , 493-515		
278	Advances Approached to Mitigate Abiotic Stresses in Rice ( <i>Oryza sativa</i> L.) Crop <b>2022</b> , 811-838		
277	Co-Application of 24-Epibrassinolide and Titanium Oxide Nanoparticles Promotes Plant Tolerance to Cu and Cd Toxicity by Increasing Antioxidant Activity and Photosynthetic Capacity and Reducing Heavy Metal Accumulation and Translocation.. <i>Antioxidants</i> , <b>2022</b> , 11,	7.1	2
276	Induction of hydrolytic enzyme activities in dormant seeds of <i>Dracocephalum kotschy</i> Boiss. causes improvement of germination and seedling vigor indices. <i>Acta Physiologiae Plantarum</i> , <b>2022</b> , 44, 1	2.6	0
275	Comparative Physiology of Indica and Japonica Rice under Salinity and Drought Stress: An Intrinsic Study on Osmotic Adjustment, Oxidative Stress, Antioxidant Defense and Methylglyoxal Detoxification. <i>Stresses</i> , <b>2022</b> , 2, 156-178		0
274	Mechanistic Insights of Plant Growth Promoting Bacteria Mediated Drought and Salt Stress Tolerance in Plants for Sustainable Agriculture.. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23,	6.3	9
273	Seed Germination Behavior, Growth, Physiology and Antioxidant Metabolism of Four Contrasting Cultivars under Combined Drought and Salinity in Soybean.. <i>Antioxidants</i> , <b>2022</b> , 11,	7.1	3
272	Wheat variety carrying 2NS chromosomal segment provides yield advantage through lowering terminal heat-induced oxidative stress.. <i>Protoplasma</i> , <b>2022</b> , 1	3.4	0
271	Arsenic-Induced Oxidative Stress and Antioxidant Defense in Plants. <i>Stresses</i> , <b>2022</b> , 2, 179-209		4

270	A decade of temperature variation and agronomic traits of durum wheat ( <i>Triticum durum</i> L.). <i>Arabian Journal of Geosciences</i> , <b>2022</b> , 15, 1	1.8	
269	Saline Toxicity and Antioxidant Response in <i>Oryza sativa</i> : An Updated Review <b>2022</b> , 79-102		0
268	Role of Phytohormones in Antioxidant Metabolism in Plants under Salinity and Water Stress <b>2022</b> , 151-191		0
267	Genome Editing: A Promising Approach for Achieving Abiotic Stress Tolerance in Plants.. <i>International Journal of Genomics</i> , <b>2022</b> , 2022, 5547231	2.5	1
266	Zinc Oxide Nanoparticles Improve Plant Tolerance to Arsenic and Mercury by Stimulating Antioxidant Defense and Reducing the Metal Accumulation and Translocation.. <i>Frontiers in Plant Science</i> , <b>2022</b> , 13, 841501	6.2	1
265	Zinc Supplementation Enhances Glutathione-Mediated Antioxidant Defense and Glyoxalase Systems to Conferring Salt Tolerance in Soybean ( <i>Glycine max</i> L.). <i>Agronomy</i> , <b>2022</b> , 12, 1032	3.6	1
264	Heavy metal and metalloids toxicity in horticultural plants: Tolerance mechanism and remediation strategies. <i>Chemosphere</i> , <b>2022</b> , 135196	8.4	4
263	An updated overview of the physiological and molecular responses of rice to anoxia. <i>Frontiers in Bioscience</i> , <b>2021</b> , 26, 1240-1255		1
262	Improvement of Wheat ( <i>Triticum</i> spp.) Through Genetic Manipulation <b>2021</b> , 33-66		
261	Phosphorus confers tolerance against manganese toxicity in <i>Prunus persica</i> by reducing oxidative stress and improving chloroplast ultrastructure. <i>Chemosphere</i> , <b>2021</b> , 132999	8.4	5
260	Selenium Supplementation and Crop Plant Tolerance to Metal/Metalloid Toxicity.. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 792770	6.2	1
259	Exogenous Application of Methyl Jasmonate and Salicylic Acid Mitigates Drought-Induced Oxidative Damages in French Bean ( <i>L.</i> ). <i>Plants</i> , <b>2021</b> , 10,	4.5	4
258	Salinity effects on water potential and the normalized difference vegetation index in four species of a saline semi-arid ecosystem. <i>PeerJ</i> , <b>2021</b> , 9, e12297	3.1	1
257	Supplemental Selenium and Boron Mitigate Salt-Induced Oxidative Damages in <i>L.</i> <i>Plants</i> , <b>2021</b> , 10,	4.5	5
256	Jasmonic acid: a key frontier in conferring abiotic stress tolerance in plants. <i>Plant Cell Reports</i> , <b>2021</b> , 40, 1513-1541	5.1	38
255	Exogenous melatonin enhances the reactive oxygen species metabolism, antioxidant defense-related gene expression, and photosynthetic capacity of <i>Phaseolus vulgaris</i> L. to confer salt stress tolerance. <i>Physiologia Plantarum</i> , <b>2021</b> , 173, 1369-1381	4.6	14
254	Modulation of the Antioxidant Defense System by Exogenous L-Glutamic Acid Application Enhances Salt Tolerance in Lentil ( <i>Medik.</i> ). <i>Biomolecules</i> , <b>2021</b> , 11,	5.9	7
253	Zerovalent Iron Modulates the Influence of Arsenic-Contaminated Soil on Growth, Yield and Grain Quality of Rice. <i>Stresses</i> , <b>2021</b> , 1, 90-104		0

252	Arsenic and Human Health: Genotoxicity, Epigenomic Effects, and Cancer Signaling. <i>Biological Trace Element Research</i> , <b>2021</b> , 1	4.5	12
251	5-aminolevulinic acid-mediated plant adaptive responses to abiotic stress. <i>Plant Cell Reports</i> , <b>2021</b> , 40, 1451-1469	5.1	6
250	GABA shunt: a key-player in mitigation of ROS during stress. <i>Plant Growth Regulation</i> , <b>2021</b> , 94, 131-149	3.2	17
249	Protective role of tebuconazole and trifloxystrobin in wheat (L.) under cadmium stress via enhancement of antioxidant defense and glyoxalase systems. <i>Physiology and Molecular Biology of Plants</i> , <b>2021</b> , 27, 1043-1057	2.8	3
248	Nitric Oxide Regulates Plant Growth, Physiology, Antioxidant Defense, and Ion Homeostasis to Confer Salt Tolerance in the Mangrove Species,. <i>Antioxidants</i> , <b>2021</b> , 10,	7.1	12
247	and Silicon Modulate Antioxidant Metabolism and Improve the Physiological Traits to Confer Salt Tolerance in Lettuce. <i>Plants</i> , <b>2021</b> , 10,	4.5	6
246	Forage potential of Salsola species in arid-saline rangeland. <i>Turkish Journal of Botany</i> , <b>2021</b> , 45, 203-215	1.3	2
245	Chitosan and putrescine modulate reactive oxygen species metabolism and physiological responses during chili fruit ripening. <i>Plant Physiology and Biochemistry</i> , <b>2021</b> , 163, 55-67	5.4	5
244	Coumarin improves tomato plant tolerance to salinity by enhancing antioxidant defence, glyoxalase system and ion homeostasis. <i>Plant Biology</i> , <b>2021</b> , 23 Suppl 1, 181-192	3.7	4
243	Silver-nanoparticle and abscisic acid modulate sub1A quantitative trait loci functioning towards submergence tolerance in rice ( <i>Oryza sativa</i> L.). <i>Environmental and Experimental Botany</i> , <b>2021</b> , 181, 104278	5.9	9
242	Osmoregulation and its actions during the drought stress in plants. <i>Physiologia Plantarum</i> , <b>2021</b> , 172, 1321-1335	4.6	40
241	Prospective Role of Plant Growth Regulators for Tolerance to Abiotic Stresses <b>2021</b> , 1-38		3
240	Omics: The way forward to enhance abiotic stress tolerance in L. <i>GM Crops and Food</i> , <b>2021</b> , 12, 251-281	2.7	22
239	Can smart nutrient applications optimize the plant's hidden half to improve drought resistance?. <i>Physiologia Plantarum</i> , <b>2021</b> , 172, 1007-1015	4.6	6
238	Sowing Dates and Cultivars Mediated Changes in Phenology and Yield Traits of Cotton-Sunflower Cropping System in the Arid Environment. <i>International Journal of Plant Production</i> , <b>2021</b> , 15, 291-302	2.4	4
237	Ion Homeostasis and Its Role in Salt Remediation by Halophytes <b>2021</b> , 1-9		
236	Morphophysiological changes and reactive oxygen species metabolism in <i>Corchorus olitorius</i> L. under different abiotic stresses. <i>Open Agriculture</i> , <b>2021</b> , 6, 549-562	1.4	1
235	Antioxidant Defense Systems and Remediation of Metal Toxicity in Plants <b>2021</b> , 91-124		5

234	Regulation of cuticular wax biosynthesis in plants under abiotic stress. <i>Plant Biotechnology Reports</i> , <b>2021</b> , 15, 1-12	2.5	7
233	Abiotic Stress and Reactive Oxygen Species: Generation, Signaling, and Defense Mechanisms. <i>Antioxidants</i> , <b>2021</b> , 10,	7.1	101
232	Fe toxicity in plants: Impacts and remediation. <i>Physiologia Plantarum</i> , <b>2021</b> , 173, 201-222	4.6	9
231	Contradictory Results of Soil Greenhouse Gas Emissions as Affected by Biochar Application: Special Focus on Alkaline Soils. <i>International Journal of Environmental Research</i> , <b>2021</b> , 15, 903-920	2.9	1
230	Jute Responses and Tolerance to Abiotic Stress: Mechanisms and Approaches. <i>Plants</i> , <b>2021</b> , 10,	4.5	1
229	Strigolactones regulate arsenate uptake, vacuolar-sequestration and antioxidant defense responses to resist arsenic toxicity in rice roots. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 415, 125589	12.8	5
228	Effect of tebuconazole and trifloxystrobin on <i>Ceratocystis fimbriata</i> to control black rot of sweet potato: processes of reactive oxygen species generation and antioxidant defense responses. <i>World Journal of Microbiology and Biotechnology</i> , <b>2021</b> , 37, 148	4.4	2
227	Regulation of Reactive Oxygen Species and Antioxidant Defense in Plants under Salinity. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	25
226	Hydrogen peroxide detoxifying enzymes show different activity patterns in host and non-host plant interactions with pathotype. <i>Physiology and Molecular Biology of Plants</i> , <b>2021</b> , 27, 2127-2139	2.8	2
225	Amelioration of sodium and arsenic toxicity in <i>Salvinia natans</i> L. with 2,4-D priming through physiological responses. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	3
224	Biostimulants for the Regulation of Reactive Oxygen Species Metabolism in Plants under Abiotic Stress. <i>Cells</i> , <b>2021</b> , 10,	7.9	11
223	Oxidative stress tolerance potential of milk thistle ecotypes after supplementation of different plant growth-promoting agents under salinity. <i>Plant Physiology and Biochemistry</i> , <b>2021</b> , 166, 53-65	5.4	5
222	Nitric Oxide Prevents Fe Deficiency-Induced Photosynthetic Disturbance, and Oxidative Stress in Alfalfa by Regulating Fe Acquisition and Antioxidant Defense. <i>Antioxidants</i> , <b>2021</b> , 10,	7.1	3
221	Insight into the thiourea-induced drought tolerance in two chickpea varieties: Regulation of osmoprotection, reactive oxygen species metabolism and glyoxalase system. <i>Plant Physiology and Biochemistry</i> , <b>2021</b> , 167, 449-458	5.4	1
220	Abscisic acid priming regulates arsenite toxicity in two contrasting rice ( <i>Oryza sativa</i> L.) genotypes through differential functioning of sub1A quantitative trait loci. <i>Environmental Pollution</i> , <b>2021</b> , 287, 117586	9.3	3
219	Molecular Biology of Cadmium Toxicity in <i>Saccharomyces cerevisiae</i> . <i>Biological Trace Element Research</i> , <b>2021</b> , 199, 4832-4846	4.5	2
218	Potential role of L-glutamic acid in mitigating cadmium toxicity in lentil ( <i>Lens culinaris</i> Medik.) through modulating the antioxidant defence system and nutrient homeostasis. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , <b>2021</b> , 49, 12485	1.2	
217	Oxidative Stress and Antioxidant Metabolism under Adverse Environmental Conditions: a Review. <i>Botanical Review, The</i> , <b>2020</b> , 1	3.8	26

216	Selenium Toxicity in Plants and Environment: Biogeochemistry and Remediation Possibilities. <i>Plants</i> , <b>2020</b> , 9,	4.5	13
215	Pretreatment of wheat ( <i>Triticum aestivum</i> 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. <i>Plant Physiology and Biochemistry</i> , <b>2020</b> , 152, 221-231	5.4	14
214	Tebuconazole and trifloxystrobin regulate the physiology, antioxidant defense and methylglyoxal detoxification systems in conferring salt stress tolerance in L. <i>Physiology and Molecular Biology of Plants</i> , <b>2020</b> , 26, 1139-1154	2.8	9
213	Exogenous Nitric Oxide- and Hydrogen Sulfide-induced Abiotic Stress Tolerance in Plants <b>2020</b> , 174-213		7
212	Phytostabilization of Pb-Zn Mine Tailings with Aided by Organic Amendments and Triple Superphosphate. <i>Molecules</i> , <b>2020</b> , 25,	4.8	12
211	Saponin biopriming positively stimulates antioxidants defense, osmolytes metabolism and ionic status to confer salt stress tolerance in soybean. <i>Acta Physiologiae Plantarum</i> , <b>2020</b> , 42, 1	2.6	19
210	Exogenous Melatonin Modulates the Physiological and Biochemical Mechanisms of Drought Tolerance in Tartary Buckwheat ( <i>L.</i> Gaertn). <i>Molecules</i> , <b>2020</b> , 25,	4.8	17
209	Application of Floating Aquatic Plants in Phytoremediation of Heavy Metals Polluted Water: A Review. <i>Sustainability</i> , <b>2020</b> , 12, 1927	3.6	107
208	Nitric oxide and hydrogen sulfide: two intimate collaborators regulating plant defense against abiotic stress. <i>Plant Growth Regulation</i> , <b>2020</b> , 90, 409-424	3.2	34
207	Selenium in plants: Boon or bane?. <i>Environmental and Experimental Botany</i> , <b>2020</b> , 178, 104170	5.9	59
206	Rice ( <i>Oryza sativa</i> L.) Establishment Techniques and Their Implications for Soil Properties, Global Warming Potential Mitigation and Crop Yields. <i>Agronomy</i> , <b>2020</b> , 10, 888	3.6	15
205	Reactive oxygen species (ROS) management in engineered plants for abiotic stress tolerance <b>2020</b> , 241-262		4
204	Modulation of Cadmium Tolerance in Rice: Insight into Vanillic Acid-Induced Upregulation of Antioxidant Defense and Glyoxalase Systems. <i>Plants</i> , <b>2020</b> , 9,	4.5	14
203	Jute: A Potential Candidate for Phytoremediation of Metals-A Review. <i>Plants</i> , <b>2020</b> , 9,	4.5	60
202	β-Aminobutyric Acid Pretreatment Confers Salt Stress Tolerance in L. by Modulating Reactive Oxygen Species Metabolism and Methylglyoxal Detoxification. <i>Plants</i> , <b>2020</b> , 9,	4.5	8
201	Alleviation of Salinity Induced Oxidative Stress in <i>Chenopodium quinoa</i> by Fe Biofortification and Biochar-Endophyte Interaction. <i>Agronomy</i> , <b>2020</b> , 10, 168	3.6	7
200	Exogenous vanillic acid enhances salt tolerance of tomato: Insight into plant antioxidant defense and glyoxalase systems. <i>Plant Physiology and Biochemistry</i> , <b>2020</b> , 150, 109-120	5.4	45
199	Salicylic acid antagonizes selenium phytotoxicity in rice: selenium homeostasis, oxidative stress metabolism and methylglyoxal detoxification. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 394, 122572	12.8	32

198	Use of Osmolytes for Improving Abiotic Stress Tolerance in Fabaceae Plants <b>2020</b> , 181-222		
197	Fabaceae Plants Response and Tolerance to High Temperature Stress <b>2020</b> , 337-371		
196	Abiotic Stresses Mediated Changes in Morphophysiology of Cotton Plant <b>2020</b> , 341-366		1
195	Enhancement of Abiotic Stress Tolerance in Camelina sativa: Conventional Breeding and Biotechnology <b>2020</b> , 195-202		
194	Seed Priming with Phytohormones: An Effective Approach for the Mitigation of Abiotic Stress. <i>Plants</i> , <b>2020</b> , 10,	4-5	46
193	Response and Tolerance of Fabaceae Plants to Metal/Metalloid Toxicity <b>2020</b> , 435-482		0
192	Cotton-Based Intercropping Systems <b>2020</b> , 321-340		1
191	Plant Nutrients for Crop Growth, Development and Stress Tolerance <b>2020</b> , 43-92		5
190	Drought and Heat Stress in Cotton ( <i>Gossypium hirsutum</i> L.): Consequences and Their Possible Mitigation Strategies <b>2020</b> , 613-634		10
189	Adverse Effect of Drought on Quality of Major Cereal Crops: Implications and Their Possible Mitigation Strategies <b>2020</b> , 635-658		4
188	World Cotton Production and Consumption: An Overview <b>2020</b> , 1-7		24
187	Morphological, Physiobiochemical and Molecular Adaptability of Legumes of Fabaceae to Drought Stress, with Special Reference to <i>Medicago Sativa</i> L. <b>2020</b> , 289-317		3
186	Use of Biostimulants for Improving Abiotic Stress Tolerance in Brassicaceae Plants <b>2020</b> , 497-531		1
185	Insights into acetate-mediated copper homeostasis and antioxidant defense in lentil under excessive copper stress. <i>Environmental Pollution</i> , <b>2020</b> , 258, 113544	9-3	23
184	Pretreatment with <i>Trichoderma harzianum</i> alleviates waterlogging-induced growth alterations in tomato seedlings by modulating physiological, biochemical, and molecular mechanisms. <i>Environmental and Experimental Botany</i> , <b>2020</b> , 171, 103946	5-9	37
183	Agricultural Land Degradation: Processes and Problems Undermining Future Food Security <b>2020</b> , 17-61		6
182	Phytoremediation of Cadmium: Physiological, Biochemical, and Molecular Mechanisms. <i>Biology</i> , <b>2020</b> , 9,	4-9	56
181	Role of Melatonin in Plant Tolerance to Soil Stressors: Salinity, pH and Heavy Metals. <i>Molecules</i> , <b>2020</b> , 25,	4.8	25

180	Regulation of ROS Metabolism in Plants under Environmental Stress: A Review of Recent Experimental Evidence. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	55
179	Glycine Betaine Accumulation, Significance and Interests for Heavy Metal Tolerance in Plants. <i>Plants</i> , <b>2020</b> , 9,	4.5	37
178	Reactive Oxygen Species and Antioxidant Defense in Plants under Abiotic Stress: Revisiting the Crucial Role of a Universal Defense Regulator. <i>Antioxidants</i> , <b>2020</b> , 9,	7.1	453
177	Exogenous kinetin and putrescine synergistically mitigate salt stress in by modulating physiology and antioxidant defense. <i>Physiology and Molecular Biology of Plants</i> , <b>2020</b> , 26, 2125-2137	2.8	7
176	Melatonin-Induced Water Stress Tolerance in Plants: Recent Advances. <i>Antioxidants</i> , <b>2020</b> , 9,	7.1	29
175	The Plant Family Brassicaceae: Introduction, Biology, And Importance <b>2020</b> , 1-43		3
174	Brassicaceae Plants Response and Tolerance to Drought Stress: Physiological and Molecular Interventions <b>2020</b> , 229-261		5
173	Mechanism of Plant Growth Promotion and Disease Suppression by Chitosan Biopolymer. <i>Agriculture (Switzerland)</i> , <b>2020</b> , 10, 624	3	31
172	Approaches in Enhancing Thermotolerance in Plants: An Updated Review. <i>Journal of Plant Growth Regulation</i> , <b>2020</b> , 39, 456-480	4.7	31
171	Comparative morphological and transcriptomic responses of lowland and upland rice to root-zone hypoxia. <i>Environmental and Experimental Botany</i> , <b>2020</b> , 169, 103916	5.9	9
170	Regulation of Reactive Oxygen Species Metabolism and Glyoxalase Systems by Exogenous Osmolytes Confers Thermotolerance in Brassica napus. <i>Gesunde Pflanzen</i> , <b>2020</b> , 72, 3-16	1.9	12
169	Drought and salinity stresses in barley: Consequences and mitigation strategies. <i>Australian Journal of Crop Science</i> , <b>2019</b> , 810-820	0.5	12
168	Comparative Physiological and Biochemical Changes in Tomato (L.) Under Salt Stress and Recovery: Role of Antioxidant Defense and Glyoxalase Systems. <i>Antioxidants</i> , <b>2019</b> , 8,	7.1	21
167	Regulation of Ascorbate-Glutathione Pathway in Mitigating Oxidative Damage in Plants under Abiotic Stress. <i>Antioxidants</i> , <b>2019</b> , 8,	7.1	244
166	Unraveling Morphophysiological and Biochemical Responses of L. to Extreme pH: Coordinated Actions of Antioxidant Defense and Glyoxalase Systems. <i>Plants</i> , <b>2019</b> , 8,	4.5	10
165	Soil parameters, onion growth, physiology, biochemical and mineral nutrient composition in response to colored polythene film mulches. <i>Annals of Agricultural Sciences</i> , <b>2019</b> , 64, 63-70	6.4	13
164	Heat Shock-Induced Salt Stress Tolerance in Lentil ( <i>Lens culinaris</i> Medik.). <i>Russian Journal of Plant Physiology</i> , <b>2019</b> , 66, 450-460	1.6	
163	Mitigation of PEG-induced drought stress in rapeseed ( <i>Brassica rapa</i> L.) by exogenous application of osmolytes. <i>Biocatalysis and Agricultural Biotechnology</i> , <b>2019</b> , 20, 101197	4.2	27

162	Explicating physiological and biochemical responses of wheat cultivars under acidity stress: insight into the antioxidant defense and glyoxalase systems. <i>Physiology and Molecular Biology of Plants</i> , <b>2019</b> , 25, 865-879	2.8	10
161	High temperature and drought stress cause abscisic acid and reactive oxygen species accumulation and suppress seed germination growth in rice. <i>Protoplasma</i> , <b>2019</b> , 256, 1217-1227	3.4	45
160	Lithium in Environment and Potential Targets to Reduce Lithium Toxicity in Plants. <i>Journal of Plant Growth Regulation</i> , <b>2019</b> , 38, 1574-1586	4.7	10
159	Maize Production Under Salinity and Drought Conditions: Oxidative Stress Regulation by Antioxidant Defense and Glyoxalase Systems <b>2019</b> , 1-34		3
158	Acetate-induced modulation of ascorbate: glutathione cycle and restriction of sodium accumulation in shoot confer salt tolerance in Medik. <i>Physiology and Molecular Biology of Plants</i> , <b>2019</b> , 25, 443-455	2.8	20
157	Oxidative Stress and Antioxidant Defense in Plants Under Salinity <b>2019</b> , 291-309		12
156	Nitric Oxide and Phytohormones Cross-Talk During Abiotic Stresses Responses in Plants <b>2019</b> , 533-554		1
155	Role of Nitric Oxide in Growth Regulation and Re-orientation of Pollen Tubes <b>2019</b> , 591-608		1
154	Role of Reactive Sulfur Species in the Oxidative Metabolism in Plants <b>2019</b> , 729-742		0
153	Quercetin Mediated Salt Tolerance in Tomato through the Enhancement of Plant Antioxidant Defense and Glyoxalase Systems. <i>Plants</i> , <b>2019</b> , 8,	4.5	33
152	Polyamine Action under Metal/Metalloid Stress: Regulation of Biosynthesis, Metabolism, and Molecular Interactions. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	37
151	Oxidative Damage and Antioxidant Defense in after Different Waterlogging Durations. <i>Plants</i> , <b>2019</b> , 8,	4.5	34
150	Exogenous Tebuconazole and Trifloxystrobin Regulates Reactive Oxygen Species Metabolism Toward Mitigating Salt-Induced Damages in Cucumber Seedling. <i>Plants</i> , <b>2019</b> , 8,	4.5	19
149	EFFECTS OF DROUGHT STRESS ON THE QUALITY OF MAJOR OILSEED CROPS: IMPLICATIONS AND POSSIBLE MITIGATION STRATEGIES [A REVIEW]. <i>Applied Ecology and Environmental Research</i> , <b>2019</b> , 17, 4019-4043	1.9	37
148	WHEAT (TRITICUM AESTIVUM L.) PRODUCTION UNDER DROUGHT AND HEAT STRESS [ADVERSE EFFECTS, MECHANISMS AND MITIGATION: A REVIEW]. <i>Applied Ecology and Environmental Research</i> , <b>2019</b> , 17,	1.9	10
147	Targeting Glycinebetaine for Abiotic Stress Tolerance in Crop Plants: Physiological Mechanism, Molecular Interaction and Signaling. <i>Phyton</i> , <b>2019</b> , 88, 185-221	2.1	12
146	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. <i>Acta Agrobotanica</i> , <b>2019</b> , 72,	2.4	15
145	EDTA reduces cadmium toxicity in mustard (Brassica juncea L.) by enhancing metal chelation, antioxidant defense and glyoxalase systems. <i>Acta Agrobotanica</i> , <b>2019</b> , 72,	2.4	11

144	Chitosan biopolymer improves the fruit quality of litchi ( <i>Litchi chinensis</i> Sonn.). <i>Acta Agrobotanica</i> , <b>2019</b> , 72,	2.4	5
143	Exogenous application of gibberellic acid mitigates drought-induced damage in spring wheat. <i>Acta Agrobotanica</i> , <b>2019</b> , 72,	2.4	8
142	Silicon-induced antioxidant defense and methylglyoxal detoxification works coordinately in alleviating nickel toxicity in <i>Oryza sativa</i> L. <i>Ecotoxicology</i> , <b>2019</b> , 28, 261-276	2.9	38
141	Interactive Effects of Salicylic Acid and Nitric Oxide in Enhancing Rice Tolerance to Cadmium Stress. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	37
140	Trehalose Protects Maize Plants from Salt Stress and Phosphorus Deficiency. <i>Plants</i> , <b>2019</b> , 8,	4.5	16
139	Physiological and Molecular Responses for Metalloid Stress in Rice: A Comprehensive Overview <b>2019</b> , 341-369		21
138	Emerging Role of Osmolytes in Enhancing Abiotic Stress Tolerance in Rice <b>2019</b> , 677-708		11
137	Integration of phosphorus with organic manures and plant residues on growth and production of hybrid rice. <i>Journal of Plant Nutrition</i> , <b>2019</b> , 1-11	2.3	
136	Drought Stress Tolerance in Wheat: Omics Approaches in Understanding and Enhancing Antioxidant Defense <b>2018</b> , 267-307		13
135	Exogenous nitric oxide pretreatment protects <i>Brassica napus</i> L. seedlings from paraquat toxicity through the modulation of antioxidant defense and glyoxalase systems. <i>Plant Physiology and Biochemistry</i> , <b>2018</b> , 126, 173-186	5.4	50
134	Exogenous glutathione attenuates lead-induced oxidative stress in wheat by improving antioxidant defense and physiological mechanisms. <i>Journal of Plant Interactions</i> , <b>2018</b> , 13, 203-212	3.8	74
133	Selenium biofortification enhances the growth and alters the physiological response of lamb's lettuce grown under high temperature stress. <i>Plant Physiology and Biochemistry</i> , <b>2018</b> , 127, 446-456	5.4	38
132	Silicon-mediated regulation of antioxidant defense and glyoxalase systems confers drought stress tolerance in <i>Brassica napus</i> L.. <i>South African Journal of Botany</i> , <b>2018</b> , 115, 50-57	2.9	84
131	Nitric oxide-induced salt stress tolerance in plants: ROS metabolism, signaling, and molecular interactions. <i>Plant Biotechnology Reports</i> , <b>2018</b> , 12, 77-92	2.5	107
130	Methylglyoxal - a signaling molecule in plant abiotic stress responses. <i>Free Radical Biology and Medicine</i> , <b>2018</b> , 122, 96-109	7.8	66
129	Insights into citric acid-induced cadmium tolerance and phytoremediation in <i>Brassica juncea</i> L.: Coordinated functions of metal chelation, antioxidant defense and glyoxalase systems. <i>Ecotoxicology and Environmental Safety</i> , <b>2018</b> , 147, 990-1001	7	109
128	Potassium: A Vital Regulator of Plant Responses and Tolerance to Abiotic Stresses. <i>Agronomy</i> , <b>2018</b> , 8, 31	3.6	218
127	Exogenous Silicon Protects <i>Brassica napus</i> Plants from Salinity-Induced Oxidative Stress Through the Modulation of AsA-GSH Pathway, Thiol-Dependent Antioxidant Enzymes and Glyoxalase Systems. <i>Gesunde Pflanzen</i> , <b>2018</b> , 70, 185-194	1.9	37

126	Ion Homeostasis and Antioxidant Defense Toward Salt Tolerance in Plants <b>2018</b> , 415-436		3
125	Strigolactones in plant adaptation to abiotic stresses: An emerging avenue of plant research. <i>Plant, Cell and Environment</i> , <b>2018</b> , 41, 2227-2243	8.4	73
124	Targeting the Redox Regulatory Mechanisms for Abiotic Stress Tolerance in Crops <b>2018</b> , 151-220		12
123	Heat or cold priming-induced cross-tolerance to abiotic stresses in plants: key regulators and possible mechanisms. <i>Protoplasma</i> , <b>2018</b> , 255, 399-412	3.4	98
122	Cotton productivity enhanced through transplanting and early sowing. <i>Acta Scientiarum - Biological Sciences</i> , <b>2018</b> , 40, 34610	0.3	29
121	Chitosan biopolymer promotes yield and stimulates accumulation of antioxidants in strawberry fruit. <i>PLoS ONE</i> , <b>2018</b> , 13, e0203769	3.7	57
120	Exogenous nitric oxide donor and arginine provide protection against short-term drought stress in wheat seedlings. <i>Physiology and Molecular Biology of Plants</i> , <b>2018</b> , 24, 993-1004	2.8	40
119	Mechanisms of Selenium-Induced Enhancement of Abiotic Stress Tolerance in Plants <b>2018</b> , 269-295		12
118	The Role of Sulfur in Plant Abiotic Stress Tolerance: Molecular Interactions and Defense Mechanisms <b>2018</b> , 221-252		9
117	Interaction of sulfur with phytohormones and signaling molecules in conferring abiotic stress tolerance to plants. <i>Plant Signaling and Behavior</i> , <b>2018</b> , 13, e1477905	2.5	43
116	Insights into spermine-induced combined high temperature and drought tolerance in mung bean: osmoregulation and roles of antioxidant and glyoxalase system. <i>Protoplasma</i> , <b>2017</b> , 254, 445-460	3.4	65
115	Role of selenium in mitigation of cadmium toxicity in pepper grown in hydroponic condition. <i>Journal of Plant Nutrition</i> , <b>2017</b> , 40, 761-772	2.3	14
114	Patterns of change in soil organic matter, physical properties and crop productivity under tillage practices and cropping systems in Bangladesh. <i>Journal of Agricultural Science</i> , <b>2017</b> , 155, 216-238	1	30
113	Glutathione in plants: biosynthesis and physiological role in environmental stress tolerance. <i>Physiology and Molecular Biology of Plants</i> , <b>2017</b> , 23, 249-268	2.8	270
112	Phenotypical, physiological and biochemical analyses provide insight into selenium-induced phytotoxicity in rice plants. <i>Chemosphere</i> , <b>2017</b> , 178, 212-223	8.4	81
111	Gamma-aminobutyric acid (GABA) confers chromium stress tolerance in Brassica juncea L. by modulating the antioxidant defense and glyoxalase systems. <i>Ecotoxicology</i> , <b>2017</b> , 26, 675-690	2.9	56
110	Maleic acid assisted improvement of metal chelation and antioxidant metabolism confers chromium tolerance in Brassica juncea L. <i>Ecotoxicology and Environmental Safety</i> , <b>2017</b> , 144, 216-226	7	45
109	Approaches in modulating proline metabolism in plants for salt and drought stress tolerance: Phytohormones, mineral nutrients and transgenics. <i>Plant Physiology and Biochemistry</i> , <b>2017</b> , 115, 126-140	5.4	203

108	Use of iso-osmotic solution to understand salt stress responses in lentil ( <i>Lens culinaris</i> Medik.). <i>South African Journal of Botany</i> , <b>2017</b> , 113, 346-354	2.9	18
107	Nitric oxide pretreatment enhances antioxidant defense and glyoxalase systems to confer PEG-induced oxidative stress in rapeseed. <i>Journal of Plant Interactions</i> , <b>2017</b> , 12, 323-331	3.8	44
106	Quantification the impacts of climate change and crop management on phenology of maize-based cropping system in Punjab, Pakistan. <i>Agricultural and Forest Meteorology</i> , <b>2017</b> , 247, 42-55	5.8	70
105	Actions of Biological Trace Elements in Plant Abiotic Stress Tolerance <b>2017</b> , 213-274		10
104	Responses, Adaptation, and ROS Metabolism in Plants Exposed to Waterlogging Stress <b>2017</b> , 257-281		6
103	Polyamines-induced aluminum tolerance in mung bean: A study on antioxidant defense and methylglyoxal detoxification systems. <i>Ecotoxicology</i> , <b>2017</b> , 26, 58-73	2.9	66
102	Hydrogen Peroxide Pretreatment Mitigates Cadmium-Induced Oxidative Stress in L.: An Intrinsic Study on Antioxidant Defense and Glyoxalase Systems. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 115	6.2	81
101	Exogenous Silicon Attenuates Cadmium-Induced Oxidative Stress in L. by Modulating AsA-GSH Pathway and Glyoxalase System. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 1061	6.2	97
100	Quantification of Climate Warming and Crop Management Impacts on Cotton Phenology. <i>Plants</i> , <b>2017</b> , 6,	4.5	38
99	Attenuation of Drought Stress in Brassica Seedlings with Exogenous Application of Ca and H <sub>2</sub> O <sub>2</sub> <i>Plants</i> , <b>2017</b> , 6,	4.5	39
98	Coordinated Actions of Glyoxalase and Antioxidant Defense Systems in Conferring Abiotic Stress Tolerance in Plants. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	132
97	Relative tolerance of different species of Brassica to cadmium toxicity: Coordinated role of antioxidant defense and glyoxalase systems. <i>Plant OMICS</i> , <b>2017</b> , 10, 107-117	0.7	15
96	Manganese-induced salt stress tolerance in rice seedlings: regulation of ion homeostasis, antioxidant defense and glyoxalase systems. <i>Physiology and Molecular Biology of Plants</i> , <b>2016</b> , 22, 291-306 <sup>2,8</sup>		74
95	Catalase and ascorbate peroxidase-representative H <sub>2</sub> O <sub>2</sub> -detoxifying heme enzymes in plants. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 19002-29	5.1	136
94	Soybean Production and Environmental Stresses <b>2016</b> , 61-102		14
93	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. <i>Ecotoxicology and Environmental Safety</i> , <b>2016</b> , 126, 245-255	7	198
92	Exogenous calcium alleviates cadmium-induced oxidative stress in rice ( <i>Oryza sativa</i> L.) seedlings by regulating the antioxidant defense and glyoxalase systems. <i>Revista Brasileira De Botanica</i> , <b>2016</b> , 39, 393-407 <sup>1,2</sup>		59
91	Roles of Osmolytes in Plant Adaptation to Drought and Salinity <b>2016</b> , 37-68		33

90	Salinity and drought-induced methylglyoxal detoxification in Brassica spp. and purification of a high active glyoxalase I from tolerant genotype. <i>Plant OMICS</i> , <b>2016</b> , 9, 352-359	0.7	2
89	Quantifying Some Physiological and Productivity Indices of Canola ( <i>Brassica napus</i> L.) Crop under an Arid Environment. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , <b>2016</b> , 44, 272-279	1.2	3
88	Cultural, Morphological and Pathogenic Characterization of <i>Alternaria porri</i> Causing Purple Blotch of Onion. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , <b>2016</b> , 44, 222-227	1.2	5
87	Calcium Supplementation Improves Na(+)/K(+) Ratio, Antioxidant Defense and Glyoxalase Systems in Salt-Stressed Rice Seedlings. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 609	6.2	98
86	Polyamines Confer Salt Tolerance in Mung Bean ( <i>Vigna radiata</i> L.) by Reducing Sodium Uptake, Improving Nutrient Homeostasis, Antioxidant Defense, and Methylglyoxal Detoxification Systems. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 1104	6.2	105
85	Methylglyoxal: An Emerging Signaling Molecule in Plant Abiotic Stress Responses and Tolerance. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 1341	6.2	121
84	Heat stress responses and thermotolerance in soybean <b>2016</b> , 261-284		6
83	Cross-Stress Tolerance in Plants: Molecular Mechanisms and Possible Involvement of Reactive Oxygen Species and Methylglyoxal Detoxification Systems <b>2016</b> , 327-380		6
82	Physiological Roles of Glutathione in Conferring Abiotic Stress Tolerance to Plants <b>2016</b> , 155-184		7
81	Manganese-induced cadmium stress tolerance in rice seedlings: Coordinated action of antioxidant defense, glyoxalase system and nutrient homeostasis. <i>Comptes Rendus - Biologies</i> , <b>2016</b> , 339, 462-474	1.4	50
80	Physiological and biochemical mechanisms of spermine-induced cadmium stress tolerance in mung bean ( <i>Vigna radiata</i> L.) seedlings. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 21206-21218	5.1	73
79	Hydrogen peroxide priming modulates abiotic oxidative stress tolerance: insights from ROS detoxification and scavenging. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 420	6.2	389
78	Interactive effects of nitric oxide and glutathione in mitigating copper toxicity of rice ( <i>Oryza sativa</i> L.) seedlings. <i>Plant Signaling and Behavior</i> , <b>2015</b> , 10, e991570	2.5	25
77	Physiological and biochemical mechanisms associated with trehalose-induced copper-stress tolerance in rice. <i>Scientific Reports</i> , <b>2015</b> , 5, 11433	4.9	99
76	Nitric oxide mediates hydrogen peroxide- and salicylic acid-induced salt tolerance in rice ( <i>Oryza sativa</i> L.) seedlings. <i>Plant Growth Regulation</i> , <b>2015</b> , 77, 265-277	3.2	76
75	Superoxide dismutase--mentor of abiotic stress tolerance in crop plants. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 10375-94	5.1	160
74	Roles of exogenous glutathione in antioxidant defense system and methylglyoxal detoxification during salt stress in mung bean. <i>Biologia Plantarum</i> , <b>2015</b> , 59, 745-756	2.1	78
73	Exogenous glutathione confers high temperature stress tolerance in mung bean ( <i>Vigna radiata</i> L.) by modulating antioxidant defense and methylglyoxal detoxification system. <i>Environmental and Experimental Botany</i> , <b>2015</b> , 112, 44-54	5.9	158

72	Trehalose pretreatment induces salt tolerance in rice ( <i>Oryza sativa</i> L.) seedlings: oxidative damage and co-induction of antioxidant defense and glyoxalase systems. <i>Protoplasma</i> , <b>2015</b> , 252, 461-75	3.4	96
71	Arsenic Toxicity in Plants and Possible Remediation <b>2015</b> , 433-501		24
70	Proline and glycine betaine modulate cadmium-induced oxidative stress tolerance in plants <b>2015</b> , 97-123		4
69	Recent Advances in Biotechnology and Genomic Approaches for Abiotic Stress Tolerance in Crop Plants <b>2015</b> , 333-366		14
68	Hydrogen sulfide modulates cadmium-induced physiological and biochemical responses to alleviate cadmium toxicity in rice. <i>Scientific Reports</i> , <b>2015</b> , 5, 14078	4.9	164
67	Exogenous application of phytoprotectants in legumes against environmental stress <b>2015</b> , 161-197		4
66	Glutathione-induced drought stress tolerance in mung bean: coordinated roles of the antioxidant defence and methylglyoxal detoxification systems. <i>AoB PLANTS</i> , <b>2015</b> , 7,	2.9	88
65	Exogenous Spermidine Alleviates Low Temperature Injury in Mung Bean ( <i>Vigna radiata</i> L.) Seedlings by Modulating Ascorbate-Glutathione and Glyoxalase Pathway. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 30117-32	6.3	54
64	Jacks of metal/metalloid chelation trade in plants-an overview. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 192	6.2	110
63	ATP-sulfurylase, sulfur-compounds, and plant stress tolerance. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 210	6.2	92
62	Hydrogen Sulfide Regulates Salt Tolerance in Rice by Maintaining Na(+)/K(+) Balance, Mineral Homeostasis and Oxidative Metabolism Under Excessive Salt Stress. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 1055	6.2	117
61	Calcium Mitigates Arsenic Toxicity in Rice Seedlings by Reducing Arsenic Uptake and Modulating the Antioxidant Defense and Glyoxalase Systems and Stress Markers. <i>BioMed Research International</i> , <b>2015</b> , 2015, 340812	3	57
60	Comparative performance of hybrid and elite inbred rice varieties with respect to their source-sink relationship. <i>Scientific World Journal, The</i> , <b>2015</b> , 2015, 326802	2.2	10
59	Plant Responses and Tolerance to High Temperature Stress: Role of Exogenous Phytoprotectants <b>2015</b> , 385-435		23
58	Yield, Dry Matter, Specific Gravity and Color of Three Bangladeshi Local Potato Cultivars as Influenced by Stage of Maturity. <i>Journal of Plant Sciences</i> , <b>2015</b> , 10, 108-115	0.2	9
57	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. <i>Plant Systematics and Evolution</i> , <b>2014</b> , 300, 1741-1747	1.3	24
56	Spermidine pretreatment enhances heat tolerance in rice seedlings through modulating antioxidative and glyoxalase systems. <i>Plant Growth Regulation</i> , <b>2014</b> , 73, 31-44	3.2	109
55	Metal/metalloid stress tolerance in plants: role of ascorbate, its redox couple, and associated enzymes. <i>Protoplasma</i> , <b>2014</b> , 251, 1265-83	3.4	96

54	Plant Resistance under Cold Stress <b>2014</b> , 79-98		1
53	Silicon and Selenium <b>2014</b> , 377-422		13
52	Exogenous jasmonic acid modulates the physiology, antioxidant defense and glyoxalase systems in imparting drought stress tolerance in different Brassica species. <i>Plant Biotechnology Reports</i> , <b>2014</b> , 8, 279-293	2.5	93
51	Drought Stress Induced Oxidative Damage and Antioxidants in Plants <b>2014</b> , 345-367		21
50	Exogenous sodium nitroprusside and glutathione alleviate copper toxicity by reducing copper uptake and oxidative damage in rice ( <i>Oryza sativa</i> L.) seedlings. <i>Protoplasma</i> , <b>2014</b> , 251, 1373-86	3-4	117
49	Effect of tillage practices on soil properties and crop productivity in wheat-mungbean-rice cropping system under subtropical climatic conditions. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 437283	2.2	46
48	Exogenous Proline and Betaine-induced Upregulation of Glutathione Transferase and Glyoxalase I in Lentil ( <i>Lens culinaris</i> ) under Drought Stress. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , <b>2014</b> , 42,	1.2	21
47	Modulation of antioxidant machinery and the methylglyoxal detoxification system in selenium-supplemented <i>Brassica napus</i> seedlings confers tolerance to high temperature stress. <i>Biological Trace Element Research</i> , <b>2014</b> , 161, 297-307	4.5	60
46	Role of Tocopherol (Vitamin E) in Plants <b>2014</b> , 267-289		14
45	Alleviation of osmotic stress in <i>Brassica napus</i> , <i>B. campestris</i> , and <i>B. juncea</i> by ascorbic acid application. <i>Biologia Plantarum</i> , <b>2014</b> , 58, 697-708	2.1	30
44	Proline Protects Plants Against Abiotic Oxidative Stress: Biochemical and Molecular Mechanisms <b>2014</b> , 477-522		57
43	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 sativa</i> L.) varieties. <i>BioMed Research International</i> , <b>2014</b> , 2014, 757219	3	145
42	Potential use of halophytes to remediate saline soils. <i>BioMed Research International</i> , <b>2014</b> , 2014, 5893413		170
41	Glutathione and glutathione reductase: a boon in disguise for plant abiotic stress defense operations. <i>Plant Physiology and Biochemistry</i> , <b>2013</b> , 70, 204-12	5.4	288
40	Application of the CSM-CERES-Rice model for evaluation of plant density and irrigation management of transplanted rice for an irrigated semiarid environment. <i>Irrigation Science</i> , <b>2013</b> , 31, 491-506	3.1	39
39	Physiological, biochemical, and molecular mechanisms of heat stress tolerance in plants. <i>International Journal of Molecular Sciences</i> , <b>2013</b> , 14, 9643-84	6.3	1005
38	Drought Stress Responses in Plants, Oxidative Stress, and Antioxidant Defense <b>2013</b> , 209-250		47
37	Plant Response to Salt Stress and Role of Exogenous Protectants to Mitigate Salt-Induced Damages <b>2013</b> , 25-87		172

36	Enhancing Plant Productivity Under Salt Stress: Relevance of Poly-omics <b>2013</b> , 113-156		44
35	Salicylic acid alleviates copper toxicity in rice ( <i>Oryza sativa</i> L.) seedlings by up-regulating antioxidative and glyoxalase systems. <i>Ecotoxicology</i> , <b>2013</b> , 22, 959-73	2.9	173
34	Exogenous sodium nitroprusside alleviates arsenic-induced oxidative stress in wheat ( <i>Triticum aestivum</i> L.) seedlings by enhancing antioxidant defense and glyoxalase system. <i>Ecotoxicology</i> , <b>2013</b> , 22, 584-96	2.9	181
33	Mechanism of Cadmium Toxicity and Tolerance in Crop Plants <b>2013</b> , 361-385		2
32	Physiological Role of Nitric Oxide in Plants Grown Under Adverse Environmental Conditions <b>2013</b> , 269-322		42
31	Importance of nitric oxide in cadmium stress tolerance in crop plants. <i>Plant Physiology and Biochemistry</i> , <b>2013</b> , 63, 254-61	5.4	162
30	Extreme Temperature Responses, Oxidative Stress and Antioxidant Defense in Plants <b>2013</b> ,		72
29	Heat-shock positively modulates oxidative protection of salt and drought-stressed mustard ( <i>Brassica campestris</i> L.) seedlings. <i>Journal of Plant Science and Molecular Breeding</i> , <b>2013</b> , 2, 2	1	19
28	Application of the CSM-CERES-Rice model for evaluation of plant density and nitrogen management of fine transplanted rice for an irrigated semiarid environment. <i>Precision Agriculture</i> , <b>2012</b> , 13, 200-218	5.6	58
27	Plant Response and Tolerance to Abiotic Oxidative Stress: Antioxidant Defense Is a Key Factor <b>2012</b> , 261-315		269
26	Exogenous selenium pretreatment protects rapeseed seedlings from cadmium-induced oxidative stress by upregulating antioxidant defense and methylglyoxal detoxification systems. <i>Biological Trace Element Research</i> , <b>2012</b> , 149, 248-61	4.5	170
25	DNA Fingerprinting and Genotyping of Cotton Varieties Using SSR Markers. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , <b>2012</b> , 40, 261	1.2	7
24	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. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , <b>2012</b> , 40, 201	1.2	32
23	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. <i>Journal of Botany</i> , <b>2012</b> , 2012, 1-37	0	423
22	Heavy Metals in the Environment <b>2012</b> , 7-74		33
21	Selenium-induced up-regulation of the antioxidant defense and methylglyoxal detoxification system reduces salinity-induced damage in rapeseed seedlings. <i>Biological Trace Element Research</i> , <b>2011</b> , 143, 1704-21	4.5	181
20	Selenium pretreatment upregulates the antioxidant defense and methylglyoxal detoxification system and confers enhanced tolerance to drought stress in rapeseed seedlings. <i>Biological Trace Element Research</i> , <b>2011</b> , 143, 1758-76	4.5	248
19	Coordinate induction of antioxidant defense and glyoxalase system by exogenous proline and glycinebetaine is correlated with salt tolerance in mung bean. <i>Frontiers of Agriculture in China</i> , <b>2011</b> , 5, 1-14		61

18	Nitric oxide modulates antioxidant defense and the methylglyoxal detoxification system and reduces salinity-induced damage of wheat seedlings. <i>Plant Biotechnology Reports</i> , <b>2011</b> , 5, 353-365	2.5	252
17	Phenological Variation and its Relation with Yield in several Wheat ( <i>Triticum aestivum</i> L.) Cultivars under Normal and Late Sowing Mediated Heat Stress Condition. <i>Notulae Scientia Biologicae</i> , <b>2010</b> , 2, 51-56	0.4	33
16	Plant growth regulator interactions results enhancement of antioxidant enzymes in <i>Catharanthus roseus</i> . <i>Journal of Plant Interactions</i> , <b>2010</b> , 5, 135-145	3.8	13
15	Evidence for a role of exogenous glycinebetaine and proline in antioxidant defense and methylglyoxal detoxification systems in mung bean seedlings under salt stress. <i>Physiology and Molecular Biology of Plants</i> , <b>2010</b> , 16, 19-29	2.8	107
14	Up-regulation of antioxidant and glyoxalase systems by exogenous glycinebetaine and proline in mung bean confer tolerance to cadmium stress. <i>Physiology and Molecular Biology of Plants</i> , <b>2010</b> , 16, 259-72	2.8	247
13	Physiological and Biochemical Mechanisms of Nitric Oxide Induced Abiotic Stress Tolerance in Plants. <i>American Journal of Plant Physiology</i> , <b>2010</b> , 5, 295-324	0	68
12	Selenium in Higher Plants: Physiological Role, Antioxidant Metabolism and Abiotic Stress Tolerance. <i>Journal of Plant Sciences</i> , <b>2010</b> , 5, 354-375	0.2	104
11	Purification of glyoxalase I from onion bulbs and molecular cloning of its cDNA. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2009</b> , 73, 2007-13	2.1	53
10	Quercetin-4?-glucoside: a physiological inhibitor of the activities of dominant glutathione S-transferases in onion ( <i>Allium cepa</i> L.) bulb. <i>Acta Physiologiae Plantarum</i> , <b>2009</b> , 31, 301-309	2.6	10
9	Suitability Evaluation of Groundwater for Irrigation, Drinking and Industrial Purposes. <i>American Journal of Environmental Sciences</i> , <b>2009</b> , 5, 413-419	0.5	17
8	Molecular cloning of cDNAs for three tau-type glutathione S-transferases in pumpkin ( <i>Cucurbita maxima</i> ) and their expression properties. <i>Physiologia Plantarum</i> , <b>2003</b> , 117, 85-92	4.6	13
7	Modulation of pumpkin glutathione S-transferases by aldehydes and related compounds. <i>Plant and Cell Physiology</i> , <b>2003</b> , 44, 481-90	4.9	30
6	Effects of Chemical Structure of 2,4-Dichlorophenoxyacetic Acid Derivatives on the Accumulation of GlutathioneS-Transferases in Cultured Pumpkin Cells. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>1996</b> , 60, 128-130	2.1	1
5	Purification and Characterization of Alliin Lyase from Welsh Onion, <i>Allium fistulosum</i> L.. <i>Agricultural and Biological Chemistry</i> , <b>1990</b> , 54, 1077-1079		7
4	Purification and Characterization of a Cd-Binding Complex from the Root Tissue of Water Hyacinth Cultivated in a Cd <sup>2+</sup> -Containing Medium. <i>Plant and Cell Physiology</i> , <b>1986</b> , 27, 1317-1325	4.9	33
3	Salicylic Acid-Mediated Regulation of Morpho-Physiological and Yield Attributes of Wheat and Barley Plants in Deferring Salinity Stress. <i>Journal of Plant Growth Regulation</i> , 1	4.7	2
2	Signalling roles of methylglyoxal and the involvement of the glyoxalase system in plant abiotic stress responses and tolerance311-326		5
1	Insights into the Role of Iron Supplementation in Conferring Bicarbonate-Mediated Alkaline Stress Tolerance in Maize. <i>Journal of Soil Science and Plant Nutrition</i> , 1	3.2	

