Kamrun Nahar

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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.

112 papers	5,845 citations	42 h-index	75 g-index
116 ext. papers	7,826 ext. citations	4.1 avg, IF	6.27 L-index

#	Paper	IF	Citations
112	Physiological, biochemical, and molecular mechanisms of heat stress tolerance in plants. *International Journal of Molecular Sciences*, **2013**, 14, 9643-84	6.3	1005
111	Glutathione in plants: biosynthesis and physiological role in environmental stress tolerance. *Physiology and Molecular Biology of Plants*, **2017**, 23, 249-268	2.8	270
110	Regulation of Ascorbate-Glutathione Pathway in Mitigating Oxidative Damage in Plants under Abiotic Stress. *Antioxidants*, **2019**, 8,	7.1	244
109	Potassium: A Vital Regulator of Plant Responses and Tolerance to Abiotic Stresses. *Agronomy*, **2018**, 8, 31	3.6	218
108	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
107	Plant Response to Salt Stress and Role of Exogenous Protectants to Mitigate Salt-Induced Damages **2013**, 25-87		172
106	Potential use of halophytes to remediate saline soils. *BioMed Research International*, **2014**, 2014, 589341	3	170
105	Importance of nitric oxide in cadmium stress tolerance in crop plants. *Plant Physiology and Biochemistry*, **2013**, 63, 254-61	5.4	162
104	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
103	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
102	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
101	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
100	Nitric oxide-induced salt stress tolerance in plants: ROS metabolism, signaling, and molecular interactions. *Plant Biotechnology Reports*, **2018**, 12, 77-92	2.5	107
99	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
98	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
97	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
96	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

95	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
94	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
93	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
92	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
91	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
90	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
89	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
88	Extreme Temperature Responses, Oxidative Stress and Antioxidant Defense in Plants **2013**,		72
87	Polyamines-induced aluminum tolerance in mung bean: A study on antioxidant defense and methylglyoxal detoxification systems. *Ecotoxicology*, **2017**, 26, 58-73	2.9	66
86	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
85	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
84	Selenium in plants: Boon or bane?. *Environmental and Experimental Botany*, **2020**, 178, 104170	5.9	59
83	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
82	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
81	-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
80	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
79	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
78	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

77	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	1.4	50
76	Drought Stress Responses in Plants, Oxidative Stress, and Antioxidant Defense **2013**, 209-250		47
75	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
74	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
73	Enhancing Plant Productivity Under Salt Stress: Relevance of Poly-omics **2013**, 113-156		44
72	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
71	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
70	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
69	Silicon-induced antioxidant defense and methylglyoxal detoxification works coordinately in alleviating nickel toxicity in Oryza sativa L. *Ecotoxicology*, **2019**, 28, 261-276	2.9	38
68	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
67	Polyamine Action under Metal/Metalloid Stress: Regulation of Biosynthesis, Metabolism, and Molecular Interactions. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	37
66	Nitric oxide and hydrogen sulfide: two intimate collaborators regulating plant defense against abiotic stress. *Plant Growth Regulation*, **2020**, 90, 409-424	3.2	34
65	Oxidative Damage and Antioxidant Defense in after Different Waterlogging Durations. *Plants*, **2019** , 8,	4.5	34
64	Roles of Osmolytes in Plant Adaptation to Drought and Salinity **2016**, 37-68		33
63	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	0.4	33
62	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
61	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
60	Regulation of Reactive Oxygen Species and Antioxidant Defense in Plants under Salinity. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	25

59	Arsenic Toxicity in Plants and Possible Remediation **2015**, 433-501		24
58	Plant Responses and Tolerance to High Temperature Stress: Role of Exogenous Phytoprotectants **2015**, 385-435		23
57	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
56	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
55	Approaches to Enhance Salt Stress Tolerance in Wheat **2017**,		15
54	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
53	Soybean Production and Environmental Stresses **2016**, 61-102		14
52	Recent Advances in Biotechnology and Genomic Approaches for Abiotic Stress Tolerance in Crop Plants **2015**, 333-366		14
51	Role of Tocopherol (Vitamin E) in Plants **2014**, 267-289		14
50	Selenium Toxicity in Plants and Environment: Biogeochemistry and Remediation Possibilities. *Plants* , **2020**, 9,	4.5	13
49	Salicylic Acid: An All-Rounder in Regulating Abiotic Stress Responses in Plants **2017**,		13
48	Drought Stress Tolerance in Wheat: Omics Approaches in Understanding and Enhancing Antioxidant Defense **2018**, 267-307		13
47	ROS Modulation in Crop Plants Under Drought Stress **2019**, 311-336		13
46	Silicon and Selenium **2014**, 377-422		13
45	Plant growth regulator interactions results enhancement of antioxidant enzymes in Catharanthus roseus. *Journal of Plant Interactions*, **2010**, 5, 135-145	3.8	13
44	Reactive Oxygen Species Metabolism and Antioxidant Defense in Plants Under Metal/Metalloid Stress **2019**, 221-257		12
43	Role of Reactive Oxygen Species Signaling in Plant Growth and Development **2019**, 225-266		12
42	Oxidative Stress and Antioxidant Defense in Plants Under Salinity **2019**, 291-309		12

41	Nitric Oxide Regulates Plant Growth, Physiology, Antioxidant Defense, and Ion Homeostasis to Confer Salt Tolerance in the Mangrove Species,. *Antioxidants*, **2021**, 10,	7.1	12
40	Regulation of Reactive Oxygen Species Metabolism and Glyoxalase Systems by Exogenous Osmolytes Confers Thermotolerance in Brassica napus. *Gesunde Pflanzen*, **2020**, 72, 3-16	1.9	12
39	EDTA reduces cadmium toxicity in mustard (Brassica juncea L.) by enhancing metal chelation, antioxidant defense and glyoxalase systems. *Acta Agrobotanica*, **2019**, 72,	2.4	11
38	Emerging Role of Osmolytes in Enhancing Abiotic Stress Tolerance in Rice **2019**, 677-708		11
37	Biostimulants for the Regulation of Reactive Oxygen Species Metabolism in Plants under Abiotic Stress. *Cells*, **2021**, 10,	7.9	11
36	Calcium-Mediated Growth Regulation and Abiotic Stress Tolerance in Plants **2019**, 291-331		10
35	Oxidative Stress and Antioxidant Defense in Plants Exposed to Metal/Metalloid Toxicity **2019**, 353-370		10
34	Actions of Biological Trace Elements in Plant Abiotic Stress Tolerance **2017**, 213-274		10
33	Tebuconazole and trifloxystrobin regulate the physiology, antioxidant defense and methylglyoxal detoxification systems in conferring salt stress tolerance in L. *Physiology and Molecular Biology of Plants*, **2020**, 26, 1139-1154	2.8	9
32	The Role of Sulfur in Plant Abiotic Stress Tolerance: Molecular Interactions and Defense Mechanisms **2018**, 221-252		9
31	Aminobutyric Acid Pretreatment Confers Salt Stress Tolerance in L. by Modulating Reactive Oxygen Species Metabolism and Methylglyoxal Detoxification. *Plants*, **2020**, 9,	4.5	8
30	Exogenous application of gibberellic acid mitigates drought-induced damage in spring wheat. *Acta Agrobotanica*, **2019**, 72,	2.4	8
29	Exogenous Nitric Oxide- and Hydrogen Sulfide-induced Abiotic Stress Tolerance in Plants **2020**, 174-213		7
28	Role of Glutathione in Plant Abiotic Stress Tolerance **2019**, 159-172		7
27	Physiological Roles of Glutathione in Conferring Abiotic Stress Tolerance to Plants **2016**, 155-184		7
26	Responses, Adaptation, and ROS Metabolism in Plants Exposed to Waterlogging Stress **2017**, 257-281		6
25	Heat stress responses and thermotolerance in soybean **2016**, 261-284		6
24	Supplemental Selenium and Boron Mitigate Salt-Induced Oxidative Damages in L. *Plants*, **2021**, 10,	4.5	5

23	Reactive Sulfur Species-Key Regulators of Abiotic Stress Tolerance in Plants **2019**, 685-713		4
22	Exogenous application of phytoprotectants in legumes against environmental stress **2015**, 161-197		4
21	Sowing Dates and Cultivars Mediated Changes in Phenology and Yield Traits of Cotton-Sunflower Cropping System in the Arid Environment. *International Journal of Plant Production*, **2021**, 15, 291-302	2.4	4
20	Arsenic-Induced Oxidative Stress and Antioxidant Defense in Plants. *Stresses*, **2022**, 2, 179-209		4
19	Oxidative Stress and Antioxidant Defense in Plants Under High Temperature **2019**, 337-352		3
18	The Role of Nitric Oxide in the Antioxidant Defense of Plants Exposed to UV-B Radiation **2019**, 555-572		3
17	Managing Abiotic Stresses With Rice Agriculture to Achieve Sustainable Food Security **2019**, 23-45		3
16	The Role of Ascorbate-Glutathione Pathway in Reactive Oxygen Species Balance Under Abiotic Stresses **2019**, 89-111		2
15	Plants Behavior Under Soil Acidity Stress: Insight into Morphophysiological, Biochemical, and Molecular Responses **2019**, 35-82		1
14	Nitric Oxide and Phytohormones Cross-Talk During Abiotic Stresses Responses in Plants **2019**, 533-554		1
13	Molecular Approaches in Enhancing Antioxidant Defense in Plants **2019**, 173-193		1
12	Exogenous salicylic acid and kinetin modulate reactive oxygen species metabolism and glyoxalase system to confer waterlogging stress tolerance in soybean (Glycine max L.). *Plant Stress*, **2022**, 3, 100057		1
11	Selenium Supplementation and Crop Plant Tolerance to Metal/Metalloid Toxicity.. *Frontiers in Plant Science*, **2021**, 12, 792770	6.2	1
10	Insight into the thiourea-induced drought tolerance in two chickpea varieties: Regulation of osmoprotection, reactive oxygen species metabolism and glyoxalase system. *Plant Physiology and Biochemistry*, **2021**, 167, 449-458	5.4	1
9	Zinc Supplementation Enhances Glutathione-Mediated Antioxidant Defense and Glyoxalase Systems to Conferring Salt Tolerance in Soybean (Glycine max L.). *Agronomy*, **2022**, 12, 1032	3.6	1
8	Reactive Oxygen Species, Reactive Nitrogen Species and Oxidative Metabolism Under Waterlogging Stress **2019**, 777-812		0
7	Oxidative Stress and Antioxidant Defense Under Combined Waterlogging and Salinity Stresses **2019**, 113-142		0
6	Response and Tolerance of Fabaceae Plants to Metal/Metalloid Toxicity **2020**, 435-482		0

5	Plant Phenolic Compounds for Abiotic Stress Tolerance **2022**, 193-237		0
4	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. *Stresses*, **2022**, 2, 156-178		0
3	Heat Shock-Induced Salt Stress Tolerance in Lentil (Lens culinaris Medik.). *Russian Journal of Plant Physiology*, **2019**, 66, 450-460	1.6	
2	Fabaceae Plants Response and Tolerance to High Temperature Stress **2020**, 337-371		
1	Advances Approached to Mitigate Abiotic Stresses in Rice (Oryza sative L.) Crop **2022**, 811-838		