

# Kamrun Nahar

## 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.

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	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
111	Plant Phenolic Compounds for Abiotic Stress Tolerance <b>2022</b> , 193-237		0
110	Advances Approached to Mitigate Abiotic Stresses in Rice ( <i>Oryza sativa</i> L.) Crop <b>2022</b> , 811-838		
109	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
108	Arsenic-Induced Oxidative Stress and Antioxidant Defense in Plants. <i>Stresses</i> , <b>2022</b> , 2, 179-209		4
107	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
106	Selenium Supplementation and Crop Plant Tolerance to Metal/Metalloid Toxicity.. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 792770	6.2	1
105	Supplemental Selenium and Boron Mitigate Salt-Induced Oxidative Damages in L. <i>Plants</i> , <b>2021</b> , 10,	4.5	5
104	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
103	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
102	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
101	Biostimulants for the Regulation of Reactive Oxygen Species Metabolism in Plants under Abiotic Stress. <i>Cells</i> , <b>2021</b> , 10,	7.9	11
100	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
99	Selenium Toxicity in Plants and Environment: Biogeochemistry and Remediation Possibilities. <i>Plants</i> , <b>2020</b> , 9,	4.5	13
98	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
97	Exogenous Nitric Oxide- and Hydrogen Sulfide-induced Abiotic Stress Tolerance in Plants <b>2020</b> , 174-213		7
96	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

95	Selenium in plants: Boon or bane?. <i>Environmental and Experimental Botany</i> , <b>2020</b> , 178, 104170	5.9	59
94	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
93	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
92	Fabaceae Plants Response and Tolerance to High Temperature Stress <b>2020</b> , 337-371		
91	Response and Tolerance of Fabaceae Plants to Metal/Metalloid Toxicity <b>2020</b> , 435-482		0
90	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
89	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
88	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
87	Regulation of Ascorbate-Glutathione Pathway in Mitigating Oxidative Damage in Plants under Abiotic Stress. <i>Antioxidants</i> , <b>2019</b> , 8,	7.1	244
86	Heat Shock-Induced Salt Stress Tolerance in Lentil (Lens culinaris Medik.). <i>Russian Journal of Plant Physiology</i> , <b>2019</b> , 66, 450-460	1.6	
85	Mitigation of PEG-induced drought stress in rapeseed (Brassica rapa L.) by exogenous application of osmolytes. <i>Biocatalysis and Agricultural Biotechnology</i> , <b>2019</b> , 20, 101197	4.2	27
84	Reactive Oxygen Species Metabolism and Antioxidant Defense in Plants Under Metal/Metalloid Stress <b>2019</b> , 221-257		12
83	Calcium-Mediated Growth Regulation and Abiotic Stress Tolerance in Plants <b>2019</b> , 291-331		10
82	Plants Behavior Under Soil Acidity Stress: Insight into Morphophysiological, Biochemical, and Molecular Responses <b>2019</b> , 35-82		1
81	Role of Reactive Oxygen Species Signaling in Plant Growth and Development <b>2019</b> , 225-266		12
80	Oxidative Stress and Antioxidant Defense in Plants Under Salinity <b>2019</b> , 291-309		12
79	ROS Modulation in Crop Plants Under Drought Stress <b>2019</b> , 311-336		13
78	Oxidative Stress and Antioxidant Defense in Plants Under High Temperature <b>2019</b> , 337-352		3

77	Oxidative Stress and Antioxidant Defense in Plants Exposed to Metal/Metalloid Toxicity <b>2019</b> , 353-370		10
76	Nitric Oxide and Phytohormones Cross-Talk During Abiotic Stresses Responses in Plants <b>2019</b> , 533-554		1
75	The Role of Nitric Oxide in the Antioxidant Defense of Plants Exposed to UV-B Radiation <b>2019</b> , 555-572		3
74	Reactive Sulfur Species-Key Regulators of Abiotic Stress Tolerance in Plants <b>2019</b> , 685-713		4
73	Reactive Oxygen Species, Reactive Nitrogen Species and Oxidative Metabolism Under Waterlogging Stress <b>2019</b> , 777-812		0
72	The Role of Ascorbate-Glutathione Pathway in Reactive Oxygen Species Balance Under Abiotic Stresses <b>2019</b> , 89-111		2
71	Oxidative Stress and Antioxidant Defense Under Combined Waterlogging and Salinity Stresses <b>2019</b> , 113-142		0
70	Role of Glutathione in Plant Abiotic Stress Tolerance <b>2019</b> , 159-172		7
69	Molecular Approaches in Enhancing Antioxidant Defense in Plants <b>2019</b> , 173-193		1
68	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
67	Oxidative Damage and Antioxidant Defense in after Different Waterlogging Durations. <i>Plants</i> , <b>2019</b> , 8,	4.5	34
66	EDTA reduces cadmium toxicity in mustard ( <i>Brassica juncea</i> L.) by enhancing metal chelation, antioxidant defense and glyoxalase systems. <i>Acta Agrobotanica</i> , <b>2019</b> , 72,	2.4	11
65	Exogenous application of gibberellic acid mitigates drought-induced damage in spring wheat. <i>Acta Agrobotanica</i> , <b>2019</b> , 72,	2.4	8
64	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
63	Emerging Role of Osmolytes in Enhancing Abiotic Stress Tolerance in Rice <b>2019</b> , 677-708		11
62	Managing Abiotic Stresses With Rice Agriculture to Achieve Sustainable Food Security <b>2019</b> , 23-45		3
61	Drought Stress Tolerance in Wheat: Omics Approaches in Understanding and Enhancing Antioxidant Defense <b>2018</b> , 267-307		13
60	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

59	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
58	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
57	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
56	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
55	Potassium: A Vital Regulator of Plant Responses and Tolerance to Abiotic Stresses. <i>Agronomy</i> , <b>2018</b> , 8, 31	3.6	218
54	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
53	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
52	The Role of Sulfur in Plant Abiotic Stress Tolerance: Molecular Interactions and Defense Mechanisms <b>2018</b> , 221-252		9
51	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
50	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
49	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
48	Gamma-aminobutyric acid (GABA) confers chromium stress tolerance in <i>Brassica juncea</i> L. by modulating the antioxidant defense and glyoxalase systems. <i>Ecotoxicology</i> , <b>2017</b> , 26, 675-690	2.9	56
47	Maleic acid assisted improvement of metal chelation and antioxidant metabolism confers chromium tolerance in <i>Brassica juncea</i> L. <i>Ecotoxicology and Environmental Safety</i> , <b>2017</b> , 144, 216-226	7	45
46	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
45	Salicylic Acid: An All-Rounder in Regulating Abiotic Stress Responses in Plants <b>2017</b> ,		13
44	Approaches to Enhance Salt Stress Tolerance in Wheat <b>2017</b> ,		15
43	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
42	Actions of Biological Trace Elements in Plant Abiotic Stress Tolerance <b>2017</b> , 213-274		10

41	Responses, Adaptation, and ROS Metabolism in Plants Exposed to Waterlogging Stress <b>2017</b> , 257-281		6
40	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
39	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
38	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
37	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
36	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
35	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>28</sup>		74
34	Soybean Production and Environmental Stresses <b>2016</b> , 61-102		14
33	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
32	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
31	Roles of Osmolytes in Plant Adaptation to Drought and Salinity <b>2016</b> , 37-68		33
30	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
29	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
28	Heat stress responses and thermotolerance in soybean <b>2016</b> , 261-284		6
27	Physiological Roles of Glutathione in Conferring Abiotic Stress Tolerance to Plants <b>2016</b> , 155-184		7
26	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
25	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
24	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

23	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
22	Arsenic Toxicity in Plants and Possible Remediation <b>2015</b> , 433-501		24
21	Recent Advances in Biotechnology and Genomic Approaches for Abiotic Stress Tolerance in Crop Plants <b>2015</b> , 333-366		14
20	Exogenous application of phytoprotectants in legumes against environmental stress <b>2015</b> , 161-197		4
19	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
18	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
17	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
16	Plant Responses and Tolerance to High Temperature Stress: Role of Exogenous Phytoprotectants <b>2015</b> , 385-435		23
15	Silicon and Selenium <b>2014</b> , 377-422		13
14	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
13	Modulation of antioxidant machinery and the methylglyoxal detoxification system in selenium-supplemented Brassica napus seedlings confers tolerance to high temperature stress. <i>Biological Trace Element Research</i> , <b>2014</b> , 161, 297-307	4.5	60
12	Role of Tocopherol (Vitamin E) in Plants <b>2014</b> , 267-289		14
11	Alleviation of osmotic stress in Brassica napus, B. campestris, and B. juncea by ascorbic acid application. <i>Biologia Plantarum</i> , <b>2014</b> , 58, 697-708	2.1	30
10	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
9	Potential use of halophytes to remediate saline soils. <i>BioMed Research International</i> , <b>2014</b> , 2014, 5893413		170
8	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
7	Drought Stress Responses in Plants, Oxidative Stress, and Antioxidant Defense <b>2013</b> , 209-250		47
6	Plant Response to Salt Stress and Role of Exogenous Protectants to Mitigate Salt-Induced Damages <b>2013</b> , 25-87		172

5	Enhancing Plant Productivity Under Salt Stress: Relevance of Poly-omics <b>2013</b> , 113-156		44
4	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
3	Extreme Temperature Responses, Oxidative Stress and Antioxidant Defense in Plants <b>2013</b> ,		72
2	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
1	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