

Kamrun Nahar

List of Publications by Year in descending order

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96
papers

9,924
citations

46918

47
h-index

88477

70
g-index

116
all docs

116
docs citations

116
times ranked

7958
citing authors

#	ARTICLE	IF	CITATIONS
1	Physiological, Biochemical, and Molecular Mechanisms of Heat Stress Tolerance in Plants. <i>International Journal of Molecular Sciences</i> , 2013, 14, 9643-9684.	1.8	1,470
2	Regulation of Ascorbate-Glutathione Pathway in Mitigating Oxidative Damage in Plants under Abiotic Stress. <i>Antioxidants</i> , 2019, 8, 384.	2.2	586
3	Glutathione in plants: biosynthesis and physiological role in environmental stress tolerance. <i>Physiology and Molecular Biology of Plants</i> , 2017, 23, 249-268.	1.4	495
4	Potassium: A Vital Regulator of Plant Responses and Tolerance to Abiotic Stresses. <i>Agronomy</i> , 2018, 8, 31.	1.3	408
5	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> , 2016, 126, 245-255.	2.9	292
6	Potential Use of Halophytes to Remediate Saline Soils. <i>BioMed Research International</i> , 2014, 2014, 1-12.	0.9	257
7	Plant Response to Salt Stress and Role of Exogenous Protectants to Mitigate Salt-Induced Damages. , 2013, , 25-87.		250
8	Exogenous Proline and Glycine Betaine Mediated Upregulation of Antioxidant Defense and Glyoxalase Systems Provides Better Protection against Salt-Induced Oxidative Stress in Two Rice (<i>Oryza) Tj ETQq0 0 0 rgBTQ Overlock 210 Tf 50 4		210
9	Importance of nitric oxide in cadmium stress tolerance in crop plants. <i>Plant Physiology and Biochemistry</i> , 2013, 63, 254-261.	2.8	228
10	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> , 2015, 112, 44-54.	2.0	205
11	Regulation of ROS Metabolism in Plants under Environmental Stress: A Review of Recent Experimental Evidence. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8695.	1.8	202
12	Coordinated Actions of Glyoxalase and Antioxidant Defense Systems in Conferring Abiotic Stress Tolerance in Plants. <i>International Journal of Molecular Sciences</i> , 2017, 18, 200.	1.8	199
13	Regulation of Reactive Oxygen Species and Antioxidant Defense in Plants under Salinity. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9326.	1.8	187
14	Nitric oxide-induced salt stress tolerance in plants: ROS metabolism, signaling, and molecular interactions. <i>Plant Biotechnology Reports</i> , 2018, 12, 77-92.	0.9	184
15	Calcium Supplementation Improves Na ⁺ /K ⁺ Ratio, Antioxidant Defense and Glyoxalase Systems in Salt-Stressed Rice Seedlings. <i>Frontiers in Plant Science</i> , 2016, 7, 609.	1.7	171
16	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> , 2018, 147, 990-1001.	2.9	161
17	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> , 2016, 7, 1104.	1.7	155
18	Glutathione-induced drought stress tolerance in mung bean: coordinated roles of the antioxidant defence and methylglyoxal detoxification systems. <i>AoB PLANTS</i> , 2015, 7, plv069.	1.2	149

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19	Exogenous Silicon Attenuates Cadmium-Induced Oxidative Stress in Brassica napus L. by Modulating AsA-GSH Pathway and Glyoxalase System. <i>Frontiers in Plant Science</i> , 2017, 8, 1061.	1.7	147
20	Selenium in plants: Boon or bane?. <i>Environmental and Experimental Botany</i> , 2020, 178, 104170.	2.0	140
21	Silicon-mediated regulation of antioxidant defense and glyoxalase systems confers drought stress tolerance in Brassica napus L.. <i>South African Journal of Botany</i> , 2018, 115, 50-57.	1.2	139
22	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> , 2014, 8, 279-293.	0.9	134
23	Hydrogen Peroxide Pretreatment Mitigates Cadmium-Induced Oxidative Stress in Brassica napus L.: An Intrinsic Study on Antioxidant Defense and Glyoxalase Systems. <i>Frontiers in Plant Science</i> , 2017, 8, 115.	1.7	114
24	Extreme Temperature Responses, Oxidative Stress and Antioxidant Defense in Plants. , 0, , .		112
25	Roles of exogenous glutathione in antioxidant defense system and methylglyoxal detoxification during salt stress in mung bean. <i>Biologia Plantarum</i> , 2015, 59, 745-756.	1.9	112
26	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> , 2016, 22, 291-306.	1.4	112
27	Exogenous glutathione attenuates lead-induced oxidative stress in wheat by improving antioxidant defense and physiological mechanisms. <i>Journal of Plant Interactions</i> , 2018, 13, 203-212.	1.0	109
28	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> , 2016, 23, 21206-21218.	2.7	100
29	Insights into spermine-induced combined high temperature and drought tolerance in mung bean: osmoregulation and roles of antioxidant and glyoxalase system. <i>Protoplasma</i> , 2017, 254, 445-460.	1.0	98
30	Exogenous vanillic acid enhances salt tolerance of tomato: Insight into plant antioxidant defense and glyoxalase systems. <i>Plant Physiology and Biochemistry</i> , 2020, 150, 109-120.	2.8	94
31	Î³-aminobutyric acid (GABA) confers chromium stress tolerance in Brassica juncea L. by modulating the antioxidant defense and glyoxalase systems. <i>Ecotoxicology</i> , 2017, 26, 675-690.	1.1	92
32	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> , 2015, 1-12.	0.9	84
33	Biostimulants for the Regulation of Reactive Oxygen Species Metabolism in Plants under Abiotic Stress. <i>Cells</i> , 2021, 10, 2537.	1.8	84
34	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> , 2016, 39, 393-407.	0.5	83
35	Polyamines-induced aluminum tolerance in mung bean: A study on antioxidant defense and methylglyoxal detoxification systems. <i>Ecotoxicology</i> , 2017, 26, 58-73.	1.1	83
36	Oxidative Damage and Antioxidant Defense in <i>Sesamum indicum</i> after Different Waterlogging Durations. <i>Plants</i> , 2019, 8, 196.	1.6	83

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37	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> , 2017, 144, 216-226.	2.9	77
38	Silicon-induced antioxidant defense and methylglyoxal detoxification works coordinately in alleviating nickel toxicity in <i>Oryza sativa</i> L.. <i>Ecotoxicology</i> , 2019, 28, 261-276.	1.1	77
39	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> , 2015, 16, 30117-30132.	1.8	75
40	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> , 2014, 161, 297-307.	1.9	73
41	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> , 2018, 126, 173-186.	2.8	73
42	Interaction of sulfur with phytohormones and signaling molecules in conferring abiotic stress tolerance to plants. <i>Plant Signaling and Behavior</i> , 2018, 13, e1477905.	1.2	71
43	Manganese-induced cadmium stress tolerance in rice seedlings: Coordinated action of antioxidant defense, glyoxalase system and nutrient homeostasis. <i>Comptes Rendus - Biologies</i> , 2016, 339, 462-474.	0.1	69
44	Exogenous nitric oxide donor and arginine provide protection against short-term drought stress in wheat seedlings. <i>Physiology and Molecular Biology of Plants</i> , 2018, 24, 993-1004.	1.4	69
45	Nitric oxide pretreatment enhances antioxidant defense and glyoxalase systems to confer PEG-induced oxidative stress in rapeseed. <i>Journal of Plant Interactions</i> , 2017, 12, 323-331.	1.0	67
46	Nitric oxide and hydrogen sulfide: two intimate collaborators regulating plant defense against abiotic stress. <i>Plant Growth Regulation</i> , 2020, 90, 409-424.	1.8	67
47	Enhancing Plant Productivity Under Salt Stress: Relevance of Poly-omics. , 2013, , 113-156.		61
48	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> , 2018, 70, 185-194.	1.7	61
49	Polyamine Action under Metal/Metalloid Stress: Regulation of Biosynthesis, Metabolism, and Molecular Interactions. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3215.	1.8	56
50	Selenium Toxicity in Plants and Environment: Biogeochemistry and Remediation Possibilities. <i>Plants</i> , 2020, 9, 1711.	1.6	56
51	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> , 2010, 2, 51-56.	0.1	52
52	Roles of Osmolytes in Plant Adaptation to Drought and Salinity. , 2016, , 37-68.		51
53	Comparative Physiological and Biochemical Changes in Tomato (<i>Solanum lycopersicum</i> L.) Under Salt Stress and Recovery: Role of Antioxidant Defense and Glyoxalase Systems. <i>Antioxidants</i> , 2019, 8, 350.	2.2	49
54	Nitric Oxide Regulates Plant Growth, Physiology, Antioxidant Defense, and Ion Homeostasis to Confer Salt Tolerance in the Mangrove Species, <i>Kandelia obovata</i> . <i>Antioxidants</i> , 2021, 10, 611.	2.2	43

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55	Arsenic-Induced Oxidative Stress and Antioxidant Defense in Plants. <i>Stresses</i> , 2022, 2, 179-209.	1.8	40
56	Mitigation of PEG-induced drought stress in rapeseed (<i>Brassica rapa</i> L.) by exogenous application of osmolytes. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 20, 101197.	1.5	36
57	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> , 2014, 58, 697-708.	1.9	35
58	Plant Responses and Tolerance to High Temperature Stress: Role of Exogenous Phytoprotectants. , 2015, , 385-435.		33
59	Supplemental Selenium and Boron Mitigate Salt-Induced Oxidative Damages in <i>Glycine max</i> L.. <i>Plants</i> , 2021, 10, 2224.	1.6	33
60	Arsenic Toxicity in Plants and Possible Remediation. , 2015, , 433-501.		31
61	Reactive Oxygen Species Metabolism and Antioxidant Defense in Plants Under Metal/Metalloid Stress. , 2019, , 221-257.		29
62	Approaches to Enhance Salt Stress Tolerance in Wheat. , 0, , .		27
63	Selenium Supplementation and Crop Plant Tolerance to Metal/Metalloid Toxicity. <i>Frontiers in Plant Science</i> , 2021, 12, 792770.	1.7	27
64	EDTA reduces cadmium toxicity in mustard (<i>Brassica juncea</i> L.) by enhancing metal chelation, antioxidant defense and glyoxalase systems. <i>Acta Agrobotanica</i> , 2019, 72, .	1.0	23
65	Biochar and Chitosan Regulate Antioxidant Defense and Methylglyoxal Detoxification Systems and Enhance Salt Tolerance in Jute (<i>Corchorus olitorius</i> L.). <i>Antioxidants</i> , 2021, 10, 2017.	2.2	23
66	Use of iso-osmotic solution to understand salt stress responses in lentil (<i>Lens culinaris</i> Medik.). <i>South African Journal of Botany</i> , 2017, 113, 346-354.	1.2	22
67	Emerging Role of Osmolytes in Enhancing Abiotic Stress Tolerance in Rice. , 2019, , 677-708.		22
68	Soybean Production and Environmental Stresses. , 2016, , 61-102.		21
69	Drought Stress Tolerance in Wheat: Omics Approaches in Understanding and Enhancing Antioxidant Defense. , 2018, , 267-307.		21
70	Role of Tocopherol (Vitamin E) in Plants. , 2014, , 267-289.		20
71	Recent Advances in Biotechnology and Genomic Approaches for Abiotic Stress Tolerance in Crop Plants. , 2015, , 333-366.		20
72	Plant growth regulator interactions results enhancement of antioxidant enzymes in <i>Catharanthus roseus</i> . <i>Journal of Plant Interactions</i> , 2010, 5, 135-145.	1.0	19

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73	Silicon and Selenium. , 2014, , 377-422.		19
74	Tebuconazole and trifloxystrobin regulate the physiology, antioxidant defense and methylglyoxal detoxification systems in conferring salt stress tolerance in <i>Triticum aestivum</i> L.. <i>Physiology and Molecular Biology of Plants</i> , 2020, 26, 1139-1154.	1.4	19
75	Exogenous application of gibberellic acid mitigates drought-induced damage in spring wheat. <i>Acta Agrobotanica</i> , 2019, 72, .	1.0	19
76	Salicylic Acid: An All-Rounder in Regulating Abiotic Stress Responses in Plants. , 2017, , .		18
77	Actions of Biological Trace Elements in Plant Abiotic Stress Tolerance. , 2017, , 213-274.		17
78	Regulation of Reactive Oxygen Species Metabolism and Glyoxalase Systems by Exogenous Osmolytes Confers Thermotolerance in <i>Brassica napus</i> . <i>Gesunde Pflanzen</i> , 2020, 72, 3-16.	1.7	17
79	Î ² -Aminobutyric Acid Pretreatment Confers Salt Stress Tolerance in <i>Brassica napus</i> L. by Modulating Reactive Oxygen Species Metabolism and Methylglyoxal Detoxification. <i>Plants</i> , 2020, 9, 241.	1.6	17
80	Relative tolerance of different species of <i>Brassica</i> to cadmium toxicity: Coordinated role of antioxidant defense and glyoxalase systems. <i>Plant OMICS</i> , 2017, 10, 107-117.	0.4	17
81	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> , 2022, 3, 100057.	2.7	17
82	The Role of Sulfur in Plant Abiotic Stress Tolerance: Molecular Interactions and Defense Mechanisms. , 2018, , 221-252.		15
83	Calcium-Mediated Growth Regulation and Abiotic Stress Tolerance in Plants. , 2019, , 291-331.		15
84	Heat stress responses and thermotolerance in soybean. , 2016, , 261-284.		11
85	Responses, Adaptation, and ROS Metabolism in Plants Exposed to Waterlogging Stress. , 2017, , 257-281.		9
86	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> , 2021, 167, 449-458.	2.8	9
87	Enhancing Salt Tolerance in Soybean by Exogenous Boron: Intrinsic Study of the Ascorbate-Glutathione and Glyoxalase Pathways. <i>Plants</i> , 2021, 10, 2085.	1.6	9
88	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> , 2022, 2, 156-178.	1.8	9
89	Zinc Supplementation Enhances Glutathione-Mediated Antioxidant Defense and Glyoxalase Systems to Conferring Salt Tolerance in Soybean (<i>Glycine max</i> L.). <i>Agronomy</i> , 2022, 12, 1032.	1.3	7
90	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> , 2021, 15, 291-302.	1.0	6

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91	Plant Phenolic Compounds for Abiotic Stress Tolerance. , 2022, , 193-237.		6
92	Plants Behavior Under Soil Acidity Stress: Insight into Morphophysiological, Biochemical, and Molecular Responses. , 2019, , 35-82.		5
93	Managing Abiotic Stresses With Rice Agriculture to Achieve Sustainable Food Security. , 2019, , 23-45.		5
94	Response and Tolerance of Fabaceae Plants to Metal/Metalloid Toxicity. , 2020, , 435-482.		2
95	Heat Shock-Induced Salt Stress Tolerance in Lentil (<i>Lens culinaris</i> Medik.). Russian Journal of Plant Physiology, 2019, 66, 450-460.	0.5	0
96	Fabaceae Plants Response and Tolerance to High Temperature Stress. , 2020, , 337-371.		0