Ali Raza

List of Publications by Year
in descending order

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Version: 2024-02-01

86 papers	5,030 citations	147726 31 h-index	114418 63 g-index
88 all docs	88 docs citations	88 times ranked	3218 citing authors

#	Article	IF	Citations
1	Reactive Oxygen Species and Antioxidant Defense in Plants under Abiotic Stress: Revisiting the Crucial Role of a Universal Defense Regulator. Antioxidants, 2020, 9, 681.	2.2	1,288
2	Impact of Climate Change on Crops Adaptation and Strategies to Tackle Its Outcome: A Review. Plants, 2019, 8, 34.	1.6	901
3	Selenium in plants: Boon or bane?. Environmental and Experimental Botany, 2020, 178, 104170.	2.0	140
4	Metabolomics: A Way Forward for Crop Improvement. Metabolites, 2019, 9, 303.	1.3	139
5	Phytoremediation of Cadmium: Physiological, Biochemical, and Molecular Mechanisms. Biology, 2020, 9, 177.	1.3	135
6	Jasmonic acid: a key frontier in conferring abiotic stress tolerance in plants. Plant Cell Reports, 2021, 40, 1513-1541.	2.8	120
7	Can omics deliver temperature resilient ready-to-grow crops?. Critical Reviews in Biotechnology, 2021, 41, 1209-1232.	5.1	114
8	Effect of Salinity Stress on Physiological Changes in Winter and Spring Wheat. Agronomy, 2021, 11, 1193.	1.3	102
9	Eco-physiological and Biochemical Responses of Rapeseed (Brassica napus L.) to Abiotic Stresses: Consequences and Mitigation Strategies. Journal of Plant Growth Regulation, 2021, 40, 1368-1388.	2.8	81
10	Nutrient use efficiency (NUE) for sustainable wheat production: a review. Journal of Plant Nutrition, 2020, 43, 297-315.	0.9	76
11	Metabolomics: a systems biology approach for enhancing heat stress tolerance in plants. Plant Cell Reports, 2022, 41, 741-763.	2.8	76
12	Catalase (CAT) Gene Family in Rapeseed (Brassica napus L.): Genome-Wide Analysis, Identification, and Expression Pattern in Response to Multiple Hormones and Abiotic Stress Conditions. International Journal of Molecular Sciences, 2021, 22, 4281.	1.8	74
13	Silicon-induced postponement of leaf senescence is accompanied by modulation of antioxidative defense and ion homeostasis in mustard (Brassica juncea) seedlings exposed to salinity and drought stress. Plant Physiology and Biochemistry, 2020, 157, 47-59.	2.8	70
14	HD-ZIP Gene Family: Potential Roles in Improving Plant Growth and Regulating Stress-Responsive Mechanisms in Plants. Genes, 2021, 12, 1256.	1.0	65
15	Exogenous salicylic acid-induced drought stress tolerance in wheat (Triticum aestivum L.) grown under hydroponic culture. PLoS ONE, 2021, 16, e0260556.	1.1	65
16	Uncovering the Research Gaps to Alleviate the Negative Impacts of Climate Change on Food Security: A Review. Frontiers in Plant Science, 0, 13, .	1.7	65
17	A manipulative interplay between positive and negative regulators of phytohormones: A way forward for improving drought tolerance in plants. Physiologia Plantarum, 2021, 172, 1269-1290.	2.6	61
18	Integrated Analysis of Metabolome and Transcriptome Reveals Insights for Cold Tolerance in Rapeseed (Brassica napus L.). Frontiers in Plant Science, 2021, 12, 721681.	1.7	61

#	Article	IF	Citations
19	Selenium Toxicity in Plants and Environment: Biogeochemistry and Remediation Possibilities. Plants, 2020, 9, 1711.	1.6	56
20	Screening of Wheat (Triticum aestivum L.) Genotypes for Drought Tolerance through Agronomic and Physiological Response. Agronomy, 2022, 12, 287.	1.3	54
21	Multidimensional Role of Silicon to Activate Resilient Plant Growth and to Mitigate Abiotic Stress. Frontiers in Plant Science, 2022, 13, 819658.	1.7	54
22	Evaluation of Fourteen Bread Wheat (Triticum aestivum L.) Genotypes by Observing Gas Exchange Parameters, Relative Water and Chlorophyll Content, and Yield Attributes under Drought Stress. Sustainability, 2021, 13, 4799.	1.6	53
23	Evaluation of Drought Tolerance of Some Wheat (Triticum aestivum L.) Genotypes through Phenology, Growth, and Physiological Indices. Agronomy, 2021, 11, 1792.	1.3	53
24	Omics: The way forward to enhance abiotic stress tolerance inBrassica napusL. GM Crops and Food, 2021, 12, 251-281.	2.0	51
25	Potential Role of Plant Growth Regulators in Administering Crucial Processes Against Abiotic Stresses. Frontiers in Agronomy, 2021, 3, .	1.5	50
26	Genome-Wide Analysis and Expression Profile of Superoxide Dismutase (SOD) Gene Family in Rapeseed (Brassica napus L.) under Different Hormones and Abiotic Stress Conditions. Antioxidants, 2021, 10, 1182.	2.2	47
27	Advances in â€œOmicsâ€•Approaches for Improving Toxic Metals/Metalloids Tolerance in Plants. Frontiers in Plant Science, 2021, 12, 794373.	1.7	47
28	Analyzing the regulatory role of heat shock transcription factors in plant heat stress tolerance: a brief appraisal. Molecular Biology Reports, 2022, 49, 5771-5785.	1.0	47
29	Hydrogen sulfide: an emerging component against abiotic stress in plants. Plant Biology, 2022, 24, 540-558.	1.8	46
30	Brassinosteroids: Molecular and physiological responses in plant growth and abiotic stresses. Plant Stress, 2021, 2, 100029.	2.7	43
31	Study on the mechanism of exogenous serotonin improving cold tolerance of rapeseed (Brassica) Tj ETQq1 1 0.784314 rgBT /Overloc	1.8	37
32	Plant Adaptation and Tolerance to Environmental Stresses: Mechanisms and Perspectives. , 2020, , 117-145.		37
33	Hypoxia and Anoxia Stress: Plant responses and tolerance mechanisms. Journal of Agronomy and Crop Science, 2021, 207, 249-284.	1.7	36
34	Integrated analysis of transcriptomics and proteomics provides insights into the molecular regulation of cold response in Brassica napus. Environmental and Experimental Botany, 2021, 187, 104480.	2.0	34
35	Targeting Plant Hormones to Develop Abiotic Stress Resistance in Wheat. , 2019, , 557-577.		31
36	Iron Oxide and Silicon Nanoparticles Modulate Mineral Nutrient Homeostasis and Metabolism in Cadmium-Stressed Phaseolus vulgaris. Frontiers in Plant Science, 2022, 13, 806781.	1.7	28

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37	Impact of silicon foliar application in enhancing antioxidants, growth, flowering and yield of squash plants under deficit irrigation condition. Annals of Agricultural Sciences, 2021, 66, 176-183.	1.1	27
38	Effect of Water Stress on Grain Yield and Physiological Characters of Quinoa Genotypes. Agronomy, 2021, 11, 1934.	1.3	26
39	Genetische DiversitÃtsanalyse von Brassica-Arten unter Verwendung von PCR-basierten SSR-Markern. Gesunde Pflanzen, 2019, 71, 1-7.	1.7	25
40	Genome-Wide Characterization of Glutathione Peroxidase (GPX) Gene Family in Rapeseed (Brassica) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 2021, 10, 1481.	2.2	25
41	Gene regulation in halophytes in conferring salt tolerance. , 2021, , 341-370.		24
42	Mechanistic Insights Into Trehalose-Mediated Cold Stress Tolerance in Rapeseed (Brassica napus L.) Seedlings. Frontiers in Plant Science, 2022, 13, 857980.	1.7	24
43	Foliar Application of CeO2 Nanoparticles Alters Generative Components Fitness and Seed Productivity in Bean Crop (Phaseolus vulgaris L.). Nanomaterials, 2021, 11, 862.	1.9	22
44	Nanobionics in Crop Production: An Emerging Approach to Modulate Plant Functionalities. Plants, 2022, 11, 692.	1.6	20
45	Antioxidant Defense Systems and Remediation of Metal Toxicity in Plants. , 2021, , 91-124.		18
46	In-vitro and in-vivo anthelmintic potential of different medicinal plants against Ascaridia galli infection in poultry birds. World's Poultry Science Journal, 2016, 72, 115-124.	1.4	17
47	Soluble Starch Synthase Enzymes in Cereals: An Updated Review. Agronomy, 2021, 11, 1983.	1.3	17
48	Genetic engineering of plants to tolerate toxic metals and metalloids. , 2021, , 411-436.		16
49	Nitrogen Fixation of Legumes: Biology and Physiology. , 2020, , 43-74.		16
50	Two-Component System Genes in Sorghum bicolor: Genome-Wide Identification and Expression Profiling in Response to Environmental Stresses. Frontiers in Genetics, 2021, 12, 794305.	1.1	15
51	Moving Beyond DNA Sequence to Improve Plant Stress Responses. Frontiers in Genetics, 2022, 13, 874648.	1.1	15
52	Phytoremediation of nickel by quinoa: Morphological and physiological response. PLoS ONE, 2022, 17, e0262309.	1.1	14
53	Heterologous expression of Arabidopsis thaliana rty gene in strawberry (Fragaria Ã— ananassa Duch.) improves drought tolerance. BMC Plant Biology, 2021, 21, 57.	1.6	13
54	Genome-wide analysis and expression patterns of lipid phospholipid phospholipase gene family in Brassica napus L.. BMC Genomics, 2021, 22, 548.	1.2	13

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55	Low leaf sodium content improves the grain yield and physiological performance of wheat genotypes in saline-sodic soil. Pesquisa Agropecuaria Tropical, 0, 51, .	1.0	13
56	In Silico Characterization and Expression Profiles of Heat Shock Transcription Factors (HSFs) in Maize (Zea mays L.). Agronomy, 2021, 11, 2335.	1.3	13
57	Comprehensive In Silico Characterization and Expression Profiling of TCP Gene Family in Rapeseed. Frontiers in Genetics, 2021, 12, 794297.	1.1	13
58	A modified protocol for rapid DNA isolation from cotton (Gossypium spp.). MethodsX, 2019, 6, 259-264.	0.7	12
59	Applications of Molecular Markers to Develop Resistance Against Abiotic Stresses in Wheat. , 2019, , 393-420.		12
60	The Plant Family Brassicaceae: Introduction, Biology, AndÂImportance. , 2020, , 1-43.		12
61	Weeds Spectrum, Productivity and Land-Use Efficiency in Maize-Gram Intercropping Systems under Semi-Arid Environment. Agronomy, 2021, 11, 1615.	1.3	12
62	Yield Stability and Genotype Environment Interaction of Water Deficit Stress Tolerant Mung Bean (Vigna radiata L. Wilczak) Genotypes of Bangladesh. Agronomy, 2021, 11, 2136.	1.3	11
63	Arabidopsis thaliana:ÂModelÂPlant for the Study of Abiotic Stress Responses. , 2020, , 129-180.		10
64	Physiological and Molecular Responses to High, Chilling, and Freezing Temperature in Plant Growth and Production: Consequences and Mitigation Possibilities. , 2021, , 235-290.		9
65	Assessment of RAPD Markers to Analyse the Genetic Diversity among Sunflower (Helianthus annuus L.) Genotypes. Turkish Journal of Agriculture: Food Science and Technology, 2018, 6, 107-111.	0.1	9
66	Aerially Applied Zinc Oxide Nanoparticle Affects Reproductive Components and Seed Quality in Fully Grown Bean Plants (Phaseolus vulgaris L.). Frontiers in Plant Science, 2021, 12, 808141.	1.7	9
67	Genome-Wide Identification and Expression Profiling of Germin-Like Proteins Reveal Their Role in Regulating Abiotic Stress Response in Potato. Frontiers in Plant Science, 2021, 12, 831140.	1.7	9
68	Plant lipid phosphate phosphatases: current advances and future outlooks. Critical Reviews in Biotechnology, 2023, 43, 384-392.	5.1	9
69	Pre-harvest potassium foliar application improves yield, vase life and overall postharvest quality of cut gladiolus inflorescences. Postharvest Biology and Technology, 2022, 192, 112027.	2.9	9
70	Role of salicylic acidâ€“induced abiotic stress tolerance and underlying mechanisms in plants. , 2022, , 73-98.		8
71	Brassicaceae Plants Response and Tolerance to Drought Stress: Physiological and Molecular Interventions. , 2020, , 229-261.		7
72	Polymorphic information and genetic diversity in Brassica species revealed by RAPD markers. Biocell, 2020, 44, 769-776.	0.4	7

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73	The Crucial Role of Jasmonates in Enhancing Heavy Metals Tolerance in Plants. Signaling and Communication in Plants, 2021, , 159-183.	0.5	6
74	Exogenous Application of Salicylic Acid and Hydrogen Peroxide Ameliorate Cadmium Stress in Milk Thistle by Enhancing Morpho-Physiological Attributes Grown at Two Different Altitudes. Frontiers in Plant Science, 2021, 12, 809183.	1.7	6
75	Analysis of Lhcb gene family in rapeseed (Brassica napus L.) identifies a novel member â€œBnLhcb3.4â€• modulating cold tolerance. Environmental and Experimental Botany, 2022, 198, 104848.	2.0	6
76	Elevated CO₂Concentration Improves Heat-Tolerant Ability in Crops. , 0, , .		5
77	Foliar Application of Trehalose or 5-Aminolevulinic Acid Improves Photosynthesis and Biomass Production in Drought Stressed Alpinia zerumbet. Agriculture (Switzerland), 2021, 11, 908.	1.4	5
78	Inositol Improves Cold Tolerance Through Inhibiting CBL1 and Increasing Ca2+ Influx in Rapeseed (Brassica napus L.). Frontiers in Plant Science, 2022, 13, 775692.	1.7	5
79	Role of Jasmonic and Salicylic Acid on Enzymatic Changes in the Root of Two Alyssum inflatum NÃ¡yr. Populations Exposed to Nickel Toxicity. Journal of Plant Growth Regulation, 2023, 42, 1647-1664.	2.8	5
80	Appraisal of foliar spray of iron and salicylic acid under artificial magnetism on morpho-physiological attributes of pea (Pisum sativum L.) plants. PLoS ONE, 2022, 17, e0265654.	1.1	5
81	Strigolactones: A Novel Carotenoid-Derived PhytohormoneÂâ€“ Biosynthesis, Transporters, Signalling, and Mechanisms in Abiotic Stress. , 2021, , 275-303.		4
82	Effects of Biochar and Biocharâ€“Compost Mix on Growth, Performance and Physiological Responses of Potted Alpinia zerumbet. Sustainability, 2021, 13, 11226.	1.6	4
83	Evaluation of Genetic Diversity Among Exotic Sorghum (Sorghum bicolorÂL. Moench) Genotypes Through Molecular Based Analysis (RAPD-PCR). Gesunde Pflanzen, 2019, 71, 187-196.	1.7	3
84	Influence of Thermal Processing on the Formation of Trans Fats in Various Edible Oils. Journal of Food Processing and Preservation, 2015, 39, 1475-1484.	0.9	1
85	Prospects of beneficial microbes as a natural resource for sustainable legumes production under changing climate. , 2022, , 29-56.		1
86	Biological Nitrogen Fixation: An Analysis of Intoxicating Tribulations from Pesticides for Sustainable Legume Production. , 2022, , 351-374.		1