Ali Raza

List of Publications by Year in Descending Order

86 papers	1,830 citations	18 h-index	41 g-index
88 ext. papers	3,289 ext. citations	4.4 avg, IF	6.14 L-index

#	Paper	IF	Citations
86	Role of salicylic acid‐induced abiotic stress tolerance and underlying mechanisms in plants **2022**, 73-98		2
85	Phytoremediation of nickel by quinoa: Morphological and physiological response.. *PLoS ONE*, **2022**, 17, e0262309	3.7	2
84	Screening of Wheat (Triticum aestivum L.) Genotypes for Drought Tolerance through Agronomic and Physiological Response. *Agronomy*, **2022**, 12, 287	3.6	7
83	Prospects of beneficial microbes as a natural resource for sustainable legumes production under changing climate **2022**, 29-56		0
82	Biological Nitrogen Fixation: An Analysis of Intoxicating Tribulations from Pesticides for Sustainable Legume Production **2022**, 351-374		
81	Analyzing the regulatory role of heat shock transcription factors in plant heat stress tolerance: a brief appraisal.. *Molecular Biology Reports*, **2022**, 1	2.8	3
80	Nanobionics in Crop Production: An Emerging Approach to Modulate Plant Functionalities.. *Plants*, **2022**, 11,	4.5	5
79	Iron Oxide and Silicon Nanoparticles Modulate Mineral Nutrient Homeostasis and Metabolism in Cadmium-Stressed .. *Frontiers in Plant Science*, **2022**, 13, 806781	6.2	1
78	Mechanistic Insights Into Trehalose-Mediated Cold Stress Tolerance in Rapeseed (L.) Seedlings.. *Frontiers in Plant Science*, **2022**, 13, 857980	6.2	3
77	Multidimensional Role of Silicon to Activate Resilient Plant Growth and to Mitigate Abiotic Stress.. *Frontiers in Plant Science*, **2022**, 13, 819658	6.2	3
76	Inositol Improves Cold Tolerance Through Inhibiting and Increasing Ca Influx in Rapeseed (L.).. *Frontiers in Plant Science*, **2022**, 13, 775692	6.2	1
75	Analysis of Lhcb gene family in rapeseed (Brassica napus L.) identifies a novel member BnLhcb3.4 modulating cold tolerance. *Environmental and Experimental Botany*, **2022**, 198, 104848	5.9	1
74	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	3.7	0
73	Moving Beyond DNA Sequence to Improve Plant Stress Responses.. *Frontiers in Genetics*, **2022**, 13, 874648	4.5	2
72	Plant lipid phosphate phosphatases: current advances and future outlooks.. *Critical Reviews in Biotechnology*, **2022**, 1-9	9.4	1
71	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	6.2	0
70	Advances in "Omics" Approaches for Improving Toxic Metals/Metalloids Tolerance in Plants.. *Frontiers in Plant Science*, **2021**, 12, 794373	6.2	9

69	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	6.4	7
68	Hydrogen sulfide: an emerging component against abiotic stress in plants. *Plant Biology*, **2021**,	3.7	9
67	Exogenous salicylic acid-induced drought stress tolerance in wheat (Triticum aestivum L.) grown under hydroponic culture.. *PLoS ONE*, **2021**, 16, e0260556	3.7	16
66	In Silico Characterization and Expression Profiles of Heat Shock Transcription Factors (HSFs) in Maize (Zea mays L.). *Agronomy*, **2021**, 11, 2335	3.6	3
65	Two-Component System Genes in : Genome-Wide Identification and Expression Profiling in Response to Environmental Stresses.. *Frontiers in Genetics*, **2021**, 12, 794305	4.5	4
64	Comprehensive Characterization and Expression Profiling of Gene Family in Rapeseed. *Frontiers in Genetics*, **2021**, 12, 794297	4.5	4
63	Effects of Biochar and Biochar□Compost Mix on Growth, Performance and Physiological Responses of Potted Alpinia zerumbet. *Sustainability*, **2021**, 13, 11226	3.6	2
62	Integrated Analysis of Metabolome and Transcriptome Reveals Insights for Cold Tolerance in Rapeseed (L.). *Frontiers in Plant Science*, **2021**, 12, 721681	6.2	17
61	Yield Stability and Genotype Environment Interaction of Water Deficit Stress Tolerant Mung Bean (Vigna radiata L. Wilczak) Genotypes of Bangladesh. *Agronomy*, **2021**, 11, 2136	3.6	4
60	Jasmonic acid: a key frontier in conferring abiotic stress tolerance in plants. *Plant Cell Reports*, **2021** , 40, 1513-1541	5.1	38
59	Foliar Application of CeO Nanoparticles Alters Generative Components Fitness and Seed Productivity in Bean Crop (L.). *Nanomaterials*, **2021**, 11,	5.4	10
58	Catalase (CAT) Gene Family in Rapeseed (L.): Genome-Wide Analysis, Identification, and Expression Pattern in Response to Multiple Hormones and Abiotic Stress Conditions. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	26
57	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	3.6	16
56	Can omics deliver temperature resilient ready-to-grow crops?. *Critical Reviews in Biotechnology*, **2021**, 41, 1209-1232	9.4	41
55	Effect of Salinity Stress on Physiological Changes in Winter and Spring Wheat. *Agronomy*, **2021**, 11, 1193	3.6	31
54	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	5.9	12
53	Genome-Wide Analysis and Expression Profile of Superoxide Dismutase (SOD) Gene Family in Rapeseed (L.) under Different Hormones and Abiotic Stress Conditions. *Antioxidants*, **2021**, 10,	7.1	16
52	Gene regulation in halophytes in conferring salt tolerance **2021**, 341-370		7

51	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	4.7	45
50	Genetic engineering of plants to tolerate toxic metals and metalloids **2021**, 411-436		7
49	Hypoxia and Anoxia Stress: Plant responses and tolerance mechanisms. *Journal of Agronomy and Crop Science*, **2021**, 207, 249-284	3.9	8
48	Omics: The way forward to enhance abiotic stress tolerance in L. *GM Crops and Food*, **2021**, 12, 251-281	2.7	22
47	The Crucial Role of Jasmonates in Enhancing Heavy Metals Tolerance in Plants. *Signaling and Communication in Plants*, **2021**, 159-183	1	1
46	Heterologous expression of Arabidopsis thaliana rty gene in strawberry (Fragaria ananassa Duch.) improves drought tolerance. *BMC Plant Biology*, **2021**, 21, 57	5.3	4
45	Physiological and Molecular Responses to High, Chilling, and Freezing Temperature in Plant Growth and Production: Consequences and Mitigation Possibilities **2021**, 235-290		3
44	Antioxidant Defense Systems and Remediation of Metal Toxicity in Plants **2021**, 91-124		5
43	Study on the mechanism of exogenous serotonin improving cold tolerance of rapeseed (Brassica napus L.) seedlings. *Plant Growth Regulation*, **2021**, 94, 161-170	3.2	17
42	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	4.6	16
41	Genome-wide analysis and expression patterns of lipid phospholipid phospholipase gene family in Brassica napus L. *BMC Genomics*, **2021**, 22, 548	4.5	6
40	Weeds Spectrum, Productivity and Land-Use Efficiency in Maize-Gram Intercropping Systems under Semi-Arid Environment. *Agronomy*, **2021**, 11, 1615	3.6	6
39	HD-ZIP Gene Family: Potential Roles in Improving Plant Growth and Regulating Stress-Responsive Mechanisms in Plants. *Genes*, **2021**, 12,	4.2	13
38	Effect of Water Stress on Grain Yield and Physiological Characters of Quinoa Genotypes. *Agronomy*, **2021**, 11, 1934	3.6	5
37	Foliar Application of Trehalose or 5-Aminolevulinic Acid Improves Photosynthesis and Biomass Production in Drought Stressed Alpinia zerumbet. *Agriculture (Switzerland)*, **2021**, 11, 908	3	3
36	Evaluation of Drought Tolerance of Some Wheat (Triticum aestivum L.) Genotypes through Phenology, Growth, and Physiological Indices. *Agronomy*, **2021**, 11, 1792	3.6	20
35	Genome-Wide Characterization of Glutathione Peroxidase (GPX) Gene Family in Rapeseed (L.) Revealed Their Role in Multiple Abiotic Stress Response and Hormone Signaling. *Antioxidants*, **2021**, 10,	7.1	11
34	Soluble Starch Synthase Enzymes in Cereals: An Updated Review. *Agronomy*, **2021**, 11, 1983	3.6	3

33	Brassinosteroids: Molecular and physiological responses in plant growth and abiotic stresses. *Plant Stress*, **2021**, 2, 100029		8
32	Strigolactones: A Novel Carotenoid-Derived Phytohormone Biosynthesis, Transporters, Signalling, and Mechanisms in Abiotic Stress **2021**, 275-303		3
31	Low leaf sodium content improves the grain yield and physiological performance of wheat genotypes in saline-sodic soil. *Pesquisa Agropecuaria Tropical*, **2021**, 51,	1.2	5
30	Strigolactones for Sustainable Plant Growth and Production Under Adverse Environmental Conditions **2021**, 129-166		0
29	Aerially Applied Zinc Oxide Nanoparticle Affects Reproductive Components and Seed Quality in Fully Grown Bean Plants (L.).. *Frontiers in Plant Science*, **2021**, 12, 808141	6.2	2
28	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	6.2	0
27	Potential Role of Plant Growth Regulators in Administering Crucial Processes Against Abiotic Stresses. *Frontiers in Agronomy*, **2021**, 3,	4	12
26	Selenium Toxicity in Plants and Environment: Biogeochemistry and Remediation Possibilities. *Plants* , **2020**, 9,	4.5	13
25	Selenium in plants: Boon or bane?. *Environmental and Experimental Botany*, **2020**, 178, 104170	5.9	59
24	Heterologous Expression of Arabidopsis rty Enhances Drought Tolerance in Strawberry (Fragaria ananassa Duch.) **2020**,		3
23	Polymorphic information and genetic diversity in Brassica species revealed by RAPD markers. *Biocell*, **2020**, 44, 769-776	1.9	3
22	Plant Adaptation and Tolerance to Environmental Stresses: Mechanisms and Perspectives **2020**, 117-145		22
21	Nitrogen Fixation of Legumes: Biology and Physiology **2020**, 43-74		6
20	Arabidopsis thaliana: Model Plant for the Study of Abiotic Stress Responses **2020**, 129-180		8
19	Nutrient use efficiency (NUE) for sustainable wheat production: a review. *Journal of Plant Nutrition*, **2020**, 43, 297-315	2.3	34
18	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	5.4	33
17	Phytoremediation of Cadmium: Physiological, Biochemical, and Molecular Mechanisms. *Biology*, **2020**, 9,	4.9	56
16	Metabolomics: a systems biology approach for enhancing heat stress tolerance in plants. *Plant Cell Reports*, **2020**, 1	5.1	25

15	Reactive Oxygen Species and Antioxidant Defense in Plants under Abiotic Stress: Revisiting the Crucial Role of a Universal Defense Regulator. *Antioxidants*, **2020**, 9,	7.1	453
14	The Plant Family Brassicaceae: Introduction, Biology, And Importance **2020**, 1-43		3
13	Brassicaceae Plants Response and Tolerance to Drought Stress: Physiological and Molecular Interventions **2020**, 229-261		5
12	A modified protocol for rapid DNA isolation from cotton (spp.). *MethodsX*, **2019**, 6, 259-264	1.9	4
11	Impact of Climate Change on Crops Adaptation and Strategies to Tackle Its Outcome: A Review. *Plants*, **2019**, 8,	4.5	416
10	Applications of Molecular Markers to Develop Resistance Against Abiotic Stresses in Wheat **2019**, 393-420		10
9	Targeting Plant Hormones to Develop Abiotic Stress Resistance in Wheat **2019**, 557-577		24
8	Evaluation of Genetic Diversity Among Exotic Sorghum (Sorghum bicolor L. Moench) Genotypes Through Molecular Based Analysis (RAPD-PCR). *Gesunde Pflanzen*, **2019**, 71, 187-196	1.9	1
7	Metabolomics: A Way Forward for Crop Improvement. *Metabolites*, **2019**, 9,	5.6	78
6	Genetic Diversity Analysis of Brassica Species Using PCR-Based SSR Markers. *Gesunde Pflanzen*, **2019**, 71, 1-7	1.9	19
5	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	1.1	5
4	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	3	8
3	Influence of Thermal Processing on the Formation of Trans Fats in Various Edible Oils. *Journal of Food Processing and Preservation*, **2015**, 39, 1475-1484	2.1	
2	Elevated CO2 Concentration Improves Heat-Tolerant Ability in Crops		4
1	Role of Jasmonic and Salicylic Acid on Enzymatic Changes in the Root of Two Alyssum inflatum Nyár. Populations Exposed to Nickel Toxicity. *Journal of Plant Growth Regulation*,1	4.7	0