

# Ali Raza

## List of Publications by Citations

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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	Reactive Oxygen Species and Antioxidant Defense in Plants under Abiotic Stress: Revisiting the Crucial Role of a Universal Defense Regulator. <i>Antioxidants</i> , <b>2020</b> , 9,	7.1	453
85	Impact of Climate Change on Crops Adaptation and Strategies to Tackle Its Outcome: A Review. <i>Plants</i> , <b>2019</b> , 8,	4.5	416
84	Metabolomics: A Way Forward for Crop Improvement. <i>Metabolites</i> , <b>2019</b> , 9,	5.6	78
83	Selenium in plants: Boon or bane?. <i>Environmental and Experimental Botany</i> , <b>2020</b> , 178, 104170	5.9	59
82	Phytoremediation of Cadmium: Physiological, Biochemical, and Molecular Mechanisms. <i>Biology</i> , <b>2020</b> , 9,	4.9	56
81	Eco-physiological and Biochemical Responses of Rapeseed ( <i>Brassica napus</i> L.) to Abiotic Stresses: Consequences and Mitigation Strategies. <i>Journal of Plant Growth Regulation</i> , <b>2021</b> , 40, 1368-1388	4.7	45
80	Can omics deliver temperature resilient ready-to-grow crops?. <i>Critical Reviews in Biotechnology</i> , <b>2021</b> , 41, 1209-1232	9.4	41
79	Jasmonic acid: a key frontier in conferring abiotic stress tolerance in plants. <i>Plant Cell Reports</i> , <b>2021</b> , 40, 1513-1541	5.1	38
78	Nutrient use efficiency (NUE) for sustainable wheat production: a review. <i>Journal of Plant Nutrition</i> , <b>2020</b> , 43, 297-315	2.3	34
77	Silicon-induced postponement of leaf senescence is accompanied by modulation of antioxidative defense and ion homeostasis in mustard ( <i>Brassica juncea</i> ) seedlings exposed to salinity and drought stress. <i>Plant Physiology and Biochemistry</i> , <b>2020</b> , 157, 47-59	5.4	33
76	Effect of Salinity Stress on Physiological Changes in Winter and Spring Wheat. <i>Agronomy</i> , <b>2021</b> , 11, 11933.6		31
75	Catalase (CAT) Gene Family in Rapeseed (L.): Genome-Wide Analysis, Identification, and Expression Pattern in Response to Multiple Hormones and Abiotic Stress Conditions. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	26
74	Metabolomics: a systems biology approach for enhancing heat stress tolerance in plants. <i>Plant Cell Reports</i> , <b>2020</b> , 1	5.1	25
73	Targeting Plant Hormones to Develop Abiotic Stress Resistance in Wheat <b>2019</b> , 557-577		24
72	Plant Adaptation and Tolerance to Environmental Stresses: Mechanisms and Perspectives <b>2020</b> , 117-145		22
71	Omics: The way forward to enhance abiotic stress tolerance in L. <i>GM Crops and Food</i> , <b>2021</b> , 12, 251-281	2.7	22
70	Evaluation of Drought Tolerance of Some Wheat ( <i>Triticum aestivum</i> L.) Genotypes through Phenology, Growth, and Physiological Indices. <i>Agronomy</i> , <b>2021</b> , 11, 1792	3.6	20

69	Genetic Diversity Analysis of Brassica Species Using PCR-Based SSR Markers. <i>Gesunde Pflanzen</i> , <b>2019</b> , 71, 1-7	1.9	19
68	Integrated Analysis of Metabolome and Transcriptome Reveals Insights for Cold Tolerance in Rapeseed (L.). <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 721681	6.2	17
67	Study on the mechanism of exogenous serotonin improving cold tolerance of rapeseed (Brassica napus L.) seedlings. <i>Plant Growth Regulation</i> , <b>2021</b> , 94, 161-170	3.2	17
66	Exogenous salicylic acid-induced drought stress tolerance in wheat (Triticum aestivum L.) grown under hydroponic culture.. <i>PLoS ONE</i> , <b>2021</b> , 16, e0260556	3.7	16
65	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. <i>Sustainability</i> , <b>2021</b> , 13, 4799	3.6	16
64	Genome-Wide Analysis and Expression Profile of Superoxide Dismutase (SOD) Gene Family in Rapeseed (L.) under Different Hormones and Abiotic Stress Conditions. <i>Antioxidants</i> , <b>2021</b> , 10,	7.1	16
63	A manipulative interplay between positive and negative regulators of phytohormones: A way forward for improving drought tolerance in plants. <i>Physiologia Plantarum</i> , <b>2021</b> , 172, 1269-1290	4.6	16
62	Selenium Toxicity in Plants and Environment: Biogeochemistry and Remediation Possibilities. <i>Plants</i> , <b>2020</b> , 9,	4.5	13
61	HD-ZIP Gene Family: Potential Roles in Improving Plant Growth and Regulating Stress-Responsive Mechanisms in Plants. <i>Genes</i> , <b>2021</b> , 12,	4.2	13
60	Integrated analysis of transcriptomics and proteomics provides insights into the molecular regulation of cold response in Brassica napus. <i>Environmental and Experimental Botany</i> , <b>2021</b> , 187, 104480	5.9	12
59	Potential Role of Plant Growth Regulators in Administering Crucial Processes Against Abiotic Stresses. <i>Frontiers in Agronomy</i> , <b>2021</b> , 3,	4	12
58	Genome-Wide Characterization of Glutathione Peroxidase (GPX) Gene Family in Rapeseed (L.) Revealed Their Role in Multiple Abiotic Stress Response and Hormone Signaling. <i>Antioxidants</i> , <b>2021</b> , 10,	7.1	11
57	Applications of Molecular Markers to Develop Resistance Against Abiotic Stresses in Wheat <b>2019</b> , 393-420		10
56	Foliar Application of CeO Nanoparticles Alters Generative Components Fitness and Seed Productivity in Bean Crop (L.). <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	10
55	Advances in "Omics" Approaches for Improving Toxic Metals/Metalloids Tolerance in Plants.. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 794373	6.2	9
54	Hydrogen sulfide: an emerging component against abiotic stress in plants. <i>Plant Biology</i> , <b>2021</b> ,	3.7	9
53	Arabidopsis thaliana: Model Plant for the Study of Abiotic Stress Responses <b>2020</b> , 129-180		8
52	In-vitro and in-vivo anthelmintic potential of different medicinal plants against Ascaridia galli infection in poultry birds. <i>World's Poultry Science Journal</i> , <b>2016</b> , 72, 115-124	3	8

51	Hypoxia and Anoxia Stress: Plant responses and tolerance mechanisms. <i>Journal of Agronomy and Crop Science</i> , <b>2021</b> , 207, 249-284	3.9	8
50	Brassinosteroids: Molecular and physiological responses in plant growth and abiotic stresses. <i>Plant Stress</i> , <b>2021</b> , 2, 100029		8
49	Screening of Wheat ( <i>Triticum aestivum</i> L.) Genotypes for Drought Tolerance through Agronomic and Physiological Response. <i>Agronomy</i> , <b>2022</b> , 12, 287	3.6	7
48	Impact of silicon foliar application in enhancing antioxidants, growth, flowering and yield of squash plants under deficit irrigation condition. <i>Annals of Agricultural Sciences</i> , <b>2021</b> , 66, 176-183	6.4	7
47	Gene regulation in halophytes in conferring salt tolerance <b>2021</b> , 341-370		7
46	Genetic engineering of plants to tolerate toxic metals and metalloids <b>2021</b> , 411-436		7
45	Nitrogen Fixation of Legumes: Biology and Physiology <b>2020</b> , 43-74		6
44	Genome-wide analysis and expression patterns of lipid phospholipid phospholipase gene family in <i>Brassica napus</i> L. <i>BMC Genomics</i> , <b>2021</b> , 22, 548	4.5	6
43	Weeds Spectrum, Productivity and Land-Use Efficiency in Maize-Gram Intercropping Systems under Semi-Arid Environment. <i>Agronomy</i> , <b>2021</b> , 11, 1615	3.6	6
42	Assessment of RAPD Markers to Analyse the Genetic Diversity among Sunflower ( <i>Helianthus annuus</i> L.) Genotypes. <i>Turkish Journal of Agriculture: Food Science and Technology</i> , <b>2018</b> , 6, 107	1.1	5
41	Brassicaceae Plants Response and Tolerance to Drought Stress: Physiological and Molecular Interventions <b>2020</b> , 229-261		5
40	Antioxidant Defense Systems and Remediation of Metal Toxicity in Plants <b>2021</b> , 91-124		5
39	Effect of Water Stress on Grain Yield and Physiological Characters of Quinoa Genotypes. <i>Agronomy</i> , <b>2021</b> , 11, 1934	3.6	5
38	Low leaf sodium content improves the grain yield and physiological performance of wheat genotypes in saline-sodic soil. <i>Pesquisa Agropecuaria Tropical</i> , <b>2021</b> , 51,	1.2	5
37	Nanobionics in Crop Production: An Emerging Approach to Modulate Plant Functionalities.. <i>Plants</i> , <b>2022</b> , 11,	4.5	5
36	A modified protocol for rapid DNA isolation from cotton ( spp.). <i>MethodsX</i> , <b>2019</b> , 6, 259-264	1.9	4
35	Two-Component System Genes in : Genome-Wide Identification and Expression Profiling in Response to Environmental Stresses.. <i>Frontiers in Genetics</i> , <b>2021</b> , 12, 794305	4.5	4
34	Comprehensive Characterization and Expression Profiling of Gene Family in Rapeseed. <i>Frontiers in Genetics</i> , <b>2021</b> , 12, 794297	4.5	4

33	Yield Stability and Genotype Environment Interaction of Water Deficit Stress Tolerant Mung Bean ( <i>Vigna radiata</i> L. Wilczak) Genotypes of Bangladesh. <i>Agronomy</i> , <b>2021</b> , 11, 2136	3.6	4
32	Heterologous expression of Arabidopsis thaliana rty gene in strawberry ( <i>Fragaria ananassa</i> Duch.) improves drought tolerance. <i>BMC Plant Biology</i> , <b>2021</b> , 21, 57	5.3	4
31	Elevated CO <sub>2</sub> Concentration Improves Heat-Tolerant Ability in Crops		4
30	In Silico Characterization and Expression Profiles of Heat Shock Transcription Factors (HSFs) in Maize ( <i>Zea mays</i> L.). <i>Agronomy</i> , <b>2021</b> , 11, 2335	3.6	3
29	Heterologous Expression of Arabidopsis rty Enhances Drought Tolerance in Strawberry ( <i>Fragaria ananassa</i> Duch.) <b>2020</b> ,		3
28	Polymorphic information and genetic diversity in Brassica species revealed by RAPD markers. <i>Biocell</i> , <b>2020</b> , 44, 769-776	1.9	3
27	The Plant Family Brassicaceae: Introduction, Biology, And Importance <b>2020</b> , 1-43		3
26	Physiological and Molecular Responses to High, Chilling, and Freezing Temperature in Plant Growth and Production: Consequences and Mitigation Possibilities <b>2021</b> , 235-290		3
25	Foliar Application of Trehalose or 5-Aminolevulinic Acid Improves Photosynthesis and Biomass Production in Drought Stressed <i>Alpinia zerumbet</i> . <i>Agriculture (Switzerland)</i> , <b>2021</b> , 11, 908	3	3
24	Soluble Starch Synthase Enzymes in Cereals: An Updated Review. <i>Agronomy</i> , <b>2021</b> , 11, 1983	3.6	3
23	Strigolactones: A Novel Carotenoid-Derived Phytohormone Biosynthesis, Transporters, Signalling, and Mechanisms in Abiotic Stress <b>2021</b> , 275-303		3
22	Analyzing the regulatory role of heat shock transcription factors in plant heat stress tolerance: a brief appraisal.. <i>Molecular Biology Reports</i> , <b>2022</b> , 1	2.8	3
21	Mechanistic Insights Into Trehalose-Mediated Cold Stress Tolerance in Rapeseed ( <i>L.</i> ) Seedlings.. <i>Frontiers in Plant Science</i> , <b>2022</b> , 13, 857980	6.2	3
20	Multidimensional Role of Silicon to Activate Resilient Plant Growth and to Mitigate Abiotic Stress.. <i>Frontiers in Plant Science</i> , <b>2022</b> , 13, 819658	6.2	3
19	Role of salicylic acid-induced abiotic stress tolerance and underlying mechanisms in plants <b>2022</b> , 73-98		2
18	Phytoremediation of nickel by quinoa: Morphological and physiological response.. <i>PLoS ONE</i> , <b>2022</b> , 17, e0262309	3.7	2
17	Effects of Biochar and Biochar-Compost Mix on Growth, Performance and Physiological Responses of Potted <i>Alpinia zerumbet</i> . <i>Sustainability</i> , <b>2021</b> , 13, 11226	3.6	2
16	Aerially Applied Zinc Oxide Nanoparticle Affects Reproductive Components and Seed Quality in Fully Grown Bean Plants ( <i>L.</i> ).. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 808141	6.2	2

15	Moving Beyond DNA Sequence to Improve Plant Stress Responses.. <i>Frontiers in Genetics</i> , <b>2022</b> , 13, 8746485	4.5	2
14	Evaluation of Genetic Diversity Among Exotic Sorghum ( <i>Sorghum bicolor</i> L. Moench) Genotypes Through Molecular Based Analysis (RAPD-PCR). <i>Gesunde Pflanzen</i> , <b>2019</b> , 71, 187-196	1.9	1
13	The Crucial Role of Jasmonates in Enhancing Heavy Metals Tolerance in Plants. <i>Signaling and Communication in Plants</i> , <b>2021</b> , 159-183	1	1
12	Iron Oxide and Silicon Nanoparticles Modulate Mineral Nutrient Homeostasis and Metabolism in Cadmium-Stressed .. <i>Frontiers in Plant Science</i> , <b>2022</b> , 13, 806781	6.2	1
11	Inositol Improves Cold Tolerance Through Inhibiting and Increasing Ca Influx in Rapeseed (L).. <i>Frontiers in Plant Science</i> , <b>2022</b> , 13, 775692	6.2	1
10	Analysis of Lhcb gene family in rapeseed ( <i>Brassica napus</i> L.) identifies a novel member BnLhcb3.4 modulating cold tolerance. <i>Environmental and Experimental Botany</i> , <b>2022</b> , 198, 104848	5.9	1
9	Plant lipid phosphate phosphatases: current advances and future outlooks.. <i>Critical Reviews in Biotechnology</i> , <b>2022</b> , 1-9	9.4	1
8	Exogenous Application of Salicylic Acid and Hydrogen Peroxide Ameliorate Cadmium Stress in Milk Thistle by Enhancing Morpho-Physiological Attributes Grown at Two Different Altitudes.. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 809183	6.2	0
7	Prospects of beneficial microbes as a natural resource for sustainable legumes production under changing climate <b>2022</b> , 29-56		0
6	Strigolactones for Sustainable Plant Growth and Production Under Adverse Environmental Conditions <b>2021</b> , 129-166		0
5	Genome-Wide Identification and Expression Profiling of Germin-Like Proteins Reveal Their Role in Regulating Abiotic Stress Response in Potato.. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 831140	6.2	0
4	Role of Jasmonic and Salicylic Acid on Enzymatic Changes in the Root of Two <i>Alyssum inflatum</i> Ngr. Populations Exposed to Nickel Toxicity. <i>Journal of Plant Growth Regulation</i> , 1	4.7	0
3	Appraisal of foliar spray of iron and salicylic acid under artificial magnetism on morpho-physiological attributes of pea ( <i>Pisum sativum</i> L.) plants.. <i>PLoS ONE</i> , <b>2022</b> , 17, e0265654	3.7	0
2	Influence of Thermal Processing on the Formation of Trans Fats in Various Edible Oils. <i>Journal of Food Processing and Preservation</i> , <b>2015</b> , 39, 1475-1484	2.1	
1	Biological Nitrogen Fixation: An Analysis of Intoxicating Tribulations from Pesticides for Sustainable Legume Production <b>2022</b> , 351-374		