Humira Sonah

List of Publications by Year
in descending order

85 papers	5,111 citations	126708 33 h-index	98622 67 g-index
90 all docs	90 docs citations	90 times ranked	5054 citing authors

#	Article	IF	Citations
1	Speed Breeding Opportunities and Challenges for Crop Improvement. Journal of Plant Growth Regulation, 2023, 42, 46-59.	2.8	9
2	Unexplored nutritive potential of tomato to combat global malnutrition. Critical Reviews in Food Science and Nutrition, 2022, 62, 1003-1034.	5.4	34
3	Understanding aquaporin regulation defining silicon uptake and role in arsenic, antimony and germanium stress in pigeonpea (Cajanus cajan). Environmental Pollution, 2022, 294, 118606.	3.7	11
4	Understanding the role of SWEET genes in fruit development and abiotic stress in pomegranate (Punica granatum L.). Molecular Biology Reports, 2022, 49, 1329-1339.	1.0	6
5	Deciphering Haplotypic Variation and Gene Expression Dynamics Associated with Nutritional and Cooking Quality in Rice. Cells, 2022, 11, 1144.	1.8	1
6	Seed priming with melatonin: A promising approach to combat abiotic stress in plants. Plant Stress, 2022, 4, 100071.	2.7	25
7	Understanding the Dynamics of Blast Resistance in Rice-Magnaporthe oryzae Interactions. Journal of Fungi (Basel, Switzerland), 2022, 8, 584.	1.5	32
8	Opportunity and challenges for nanotechnology application for genome editing in plants. , 2022, 1, 100001.		15
9	Dissecting the nutrient partitioning mechanism in rice grain using spatially resolved gene expression profiling. Journal of Experimental Botany, 2021, 72, 2212-2230.	2.4	13
10	Understanding aquaporin transport system, silicon and other metalloids uptake and deposition in bottle gourd (Lagenaria siceraria). Journal of Hazardous Materials, 2021, 409, 124598.	6.5	13
11	Soybean transporter database: A comprehensive database for identification and exploration of natural variants in soybean transporter genes. Physiologia Plantarum, 2021, 171, 756-770.	2.6	12
12	Targeting aquaporins to alleviate hazardous metal(loid)s imposed stress in plants. Journal of Hazardous Materials, 2021, 408, 124910.	6.5	22
13	Silicon nanoparticles (SiNPs) in sustainable agriculture: major emphasis on the practicality, efficacy and concerns. Nanoscale Advances, 2021, 3, 4019-4028.	2.2	50
14	Significance of solute specificity, expression, and gating mechanism of tonoplast intrinsic protein during development and stress response in plants. Physiologia Plantarum, 2021, 172, 258-274.	2.6	22
15	Development of chloroplast microsatellite markers in Capsicum: Insight into evolution of Bhut Jolokia - a clad of ghost chilli landraces. Indian Journal of Genetics and Plant Breeding, 2021, 81, 93-100.	0.2	0
16	Dynamic role of aquaporin transport system under drought stress in plants. Environmental and Experimental Botany, 2021, 184, 104367.	2.0	24
17	Identification and molecular characterization of rice bran-specific lipases. Plant Cell Reports, 2021, 40, 1215-1228.	2.8	8
18	Reference gene identification for gene expression analysis in rice under different metal stress. Journal of Biotechnology, 2021, 332, 83-93.	1.9	11

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19	Genotyping-by-sequencing based QTL mapping identified a novel waxy allele contributing to high amylose starch in wheat. Euphytica, 2021, 217, 1.	0.6	4
20	Identification of genomic loci conferring broad-spectrum resistance to multiple nematode species in exotic soybean accession PI 567305. Theoretical and Applied Genetics, 2021, 134, 3379-3395.	1.8	10
21	Decoding the genome of superior chapatti quality Indian wheat variety â€˜C 306â€™ unravelled novel genomic variants for chapatti and nutrition quality related genes. Genomics, 2021, 113, 1919-1929.	1.3	5
22	Omics advances and integrative approaches for the simultaneous improvement of seed oil and protein content in soybean (Glycine maxL.). Critical Reviews in Plant Sciences, 2021, 40, 398-421.	2.7	17
23	Role of silicon under contrasting biotic and abiotic stress conditions provides benefits for climate smart cropping. Environmental and Experimental Botany, 2021, 189, 104545.	2.0	27
24	Role of silicon in elevating resistance against sheath blight and blast diseases in rice (Oryza sativa L.). Plant Physiology and Biochemistry, 2021, 166, 128-139.	2.8	22
25	Identification of aquaporins and deciphering their role under salinity stress in pomegranate (Punica) Tj ETQq1 1 0.784314 rgBT /Overl	0.9	5
26	Nitric oxide and hydrogen sulfide crosstalk during heavy metal stress in plants. Physiologia Plantarum, 2020, 168, 437-455.	2.6	94
27	Applications and challenges for efficient exploration of omics interventions for the enhancement of nutritional quality in rice (Oryza sativaL.). Critical Reviews in Food Science and Nutrition, 2020, 60, 3304-3320.	5.4	29
28	Integrated QTL mapping, gene expression and nucleotide variation analyses to investigate complex quantitative traits: a case study with the soybeanâ€“Phytophthora sojae interaction. Plant Biotechnology Journal, 2020, 18, 1492-1494.	4.1	18
29	Effector Biology of Biotrophic Plant Fungal Pathogens: Current Advances and Future Prospects. Microbiological Research, 2020, 241, 126567.	2.5	46
30	Understanding aquaporin transport system in highly stress-tolerant and medicinal plant species Jujube (Ziziphus jujuba Mill.). Journal of Biotechnology, 2020, 324, 103-111.	1.9	11
31	Evolutionary Understanding of Aquaporin Transport System in the Basal Eudicot Model Species Aquilegia coerulea. Plants, 2020, 9, 799.	1.6	9
32	Evolutionary Understanding of Metacaspase Genes in Cultivated and Wild Oryza Species and Its Role in Disease Resistance Mechanism in Rice. Genes, 2020, 11, 1412.	1.0	4
33	New evidence defining the evolutionary path of aquaporins regulating silicon uptake in land plants. Journal of Experimental Botany, 2020, 71, 6775-6788.	2.4	78
34	Genome-wide Identification and Characterization of Heat Shock Protein Family Reveals Role in Development and Stress Conditions in Triticum aestivum L.. Scientific Reports, 2020, 10, 7858.	1.6	44
35	Genome Editing in Cereals: Approaches, Applications and Challenges. International Journal of Molecular Sciences, 2020, 21, 4040.	1.8	82
36	Spatio-temporal distribution of micronutrients in rice grains and its regulation. Critical Reviews in Biotechnology, 2020, 40, 490-507.	5.1	14

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37	Discriminant haplotypes of avirulence genes of Phytophthora sojae lead to a molecular assay to predict phenotypes. Molecular Plant Pathology, 2020, 21, 318-329.	2.0	12
38	Significance of silicon uptake, transport, and deposition in plants. Journal of Experimental Botany, 2020, 71, 6703-6718.	2.4	126
39	Whole Genome Re-sequencing of Soybean Accession EC241780 Providing Genomic Landscape of Candidate Genes Involved in Rust Resistance. Current Genomics, 2020, 21, 504-511.	0.7	8
40	Global Perspectives on Agriculture: Food Security and Nutrition. , 2020, , 1-27.		0
41	The controversies of silicon's role in plant biology. New Phytologist, 2019, 221, 67-85.	3.5	439
42	Si permeability of a deficient Lsi1 aquaporin in tobacco can be enhanced through a conserved residue substitution. Plant Direct, 2019, 3, e00163.	0.8	16
43	Understanding the Role of the WRKY Gene Family under Stress Conditions in Pigeonpea (Cajanus Cajan) Tj ETQq1 1 0.784314 rgBT /O	1.6	20
44	Genome Editing in Plants: Exploration of Technological Advancements and Challenges. Cells, 2019, 8, 1386.	1.8	115
45	Mutagenesis Approaches and Their Role in Crop Improvement. Plants, 2019, 8, 467.	1.6	42
46	Understanding the Effect of Structural Diversity in WRKY Transcription Factors on DNA Binding Efficiency through Molecular Dynamics Simulation. Biology, 2019, 8, 83.	1.3	8
47	Silicon Uptake and Localisation in Date Palm (Phoenix dactylifera) â€“ A Unique Association With Sclerenchyma. Frontiers in Plant Science, 2019, 10, 988.	1.7	37
48	Expanding Avenue of Fast Neutron Mediated Mutagenesis for Crop Improvement. Plants, 2019, 8, 164.	1.6	37
49	Molecular characterization and expression dynamics of MTP genes under various spatio-temporal stages and metal stress conditions in rice. PLoS ONE, 2019, 14, e0217360.	1.1	34
50	Identification of the aquaporin gene family in Cannabis sativa and evidence for the accumulation of silicon in its tissues. Plant Science, 2019, 287, 110167.	1.7	41
51	Mutation Breeding in Tomato: Advances, Applicability and Challenges. Plants, 2019, 8, 128.	1.6	65
52	Identification and characterization of aquaporin genes in Arachis duranensis and Arachis ipaensis genomes, the diploid progenitors of peanut. BMC Genomics, 2019, 20, 222.	1.2	31
53	Role of Silicon in Mitigation of Heavy Metal Stresses in Crop Plants. Plants, 2019, 8, 71.	1.6	256
54	In defence of the selective transport and role of silicon in plants. New Phytologist, 2019, 223, 514-516.	3.5	9

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55	Approaches, Applicability, and Challenges for Development of Climate-Smart Soybean. , 2019, , 1-74.		7
56	Progress Toward Development of Climate-Smart Flax: A Perspective on Omics-Assisted Breeding. , 2019, , 239-274.		10
57	Advances in Omics Approaches for Abiotic Stress Tolerance in Tomato. Biology, 2019, 8, 90.	1.3	68
58	Stable predictive markers for Phytophthora sojae avirulence genes that impair infection of soybean uncovered by whole genome sequencing of 31 isolates. BMC Biology, 2018, 16, 80.	1.7	40
59	Silicon protects soybean plants against Phytophthora sojae by interfering with effector-receptor expression. BMC Plant Biology, 2018, 18, 97.	1.6	80
60	Analysis of aquaporins in Brassicaceae species reveals high-level of conservation and dynamic role against biotic and abiotic stress in canola. Scientific Reports, 2017, 7, 2771.	1.6	84
61	Understanding Aquaporin Transport System in Eelgrass (Zostera marina L.), an Aquatic Plant Species. Frontiers in Plant Science, 2017, 8, 1334.	1.7	23
62	Computational Prediction of Effector Proteins in Fungi: Opportunities and Challenges. Frontiers in Plant Science, 2016, 7, 126.	1.7	118
63	Functional Characterization of Novel Chitinase Genes Present in the Sheath Blight Resistance QTL: qSBR11-1 in Rice Line Tetep. Frontiers in Plant Science, 2016, 7, 244.	1.7	38
64	Comparative Transcriptomic Analysis of Virulence Factors in Leptosphaeria maculans during Compatible and Incompatible Interactions with Canola. Frontiers in Plant Science, 2016, 7, 1784.	1.7	60
65	Plant Aquaporins: Genome-Wide Identification, Transcriptomics, Proteomics, and Advanced Analytical Tools. Frontiers in Plant Science, 2016, 7, 1896.	1.7	76
66	Intron gain, a dominant evolutionary process supporting high levels of gene expression in rice. Journal of Plant Biochemistry and Biotechnology, 2016, 25, 142-146.	0.9	27
67	A precise spacing between the <scp>NPA</scp> domains of aquaporins is essential for silicon permeability in plants. Plant Journal, 2015, 83, 489-500.	2.8	191
68	Expanding Omics Resources for Improvement of Soybean Seed Composition Traits. Frontiers in Plant Science, 2015, 6, 1021.	1.7	105
69	Recent advances in molecular marker techniques: Insight into QTL mapping, GWAS and genomic selection in plants. Journal of Crop Science and Biotechnology, 2015, 18, 293-308.	0.7	61
70	Association mapping of QTLs for sclerotinia stem rot resistance in a collection of soybean plant introductions using a genotyping by sequencing (GBS) approach. BMC Plant Biology, 2015, 15, 5.	1.6	98
71	Soybean (Glycine max) SWEET gene family: insights through comparative genomics, transcriptome profiling and whole genome re-sequence analysis. BMC Genomics, 2015, 16, 520.	1.2	173
72	Genetic architecture of cyst nematode resistance revealed by genome-wide association study in soybean. BMC Genomics, 2015, 16, 593.	1.2	111

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73	Identification of loci governing eight agronomic traits using a <scp>GBS</scp>â€<scp>GWAS</scp> approach and validation by <scp>QTL</scp> mapping in soya bean. Plant Biotechnology Journal, 2015, 13, 211-221.	4.1	340
74	Integrating omic approaches for abiotic stress tolerance in soybean. Frontiers in Plant Science, 2014, 5, 244.	1.7	213
75	Molecular mapping of black rot resistance locus <scp>X</scp>ca1bo on chromosome 3 in <scp>I</scp>ndian cauliflower (<scp>B</scp>rassica oleracea var. botrytis L.). Plant Breeding, 2014, 133, 268-274.	1.0	24
76	Identification and functional characterization of silicon transporters in soybean using comparative genomics of major intrinsic proteins in Arabidopsis and rice. Plant Molecular Biology, 2013, 83, 303-315.	2.0	233
77	An Improved Genotyping by Sequencing (GBS) Approach Offering Increased Versatility and Efficiency of SNP Discovery and Genotyping. PLoS ONE, 2013, 8, e54603.	1.1	406
78	Molecular mapping of quantitative trait loci for flag leaf length and other agronomic traits in rice(Oryza sativa). Cereal Research Communications, 2012, 40, 362-372.	0.8	11
79	Fungicidal Interference during Infection Related Developmental Stages in Magnaporthe grisea. International Journal of Phytopathology, 2012, 1, 49-55.	0.1	0
80	Genome-Wide Distribution and Organization of Microsatellites in Plants: An Insight into Marker Development in Brachypodium. PLoS ONE, 2011, 6, e21298.	1.1	184
81	Genomic resources in horticultural crops: Status, utility and challenges. Biotechnology Advances, 2011, 29, 199-209.	6.0	54
82	Analysis of Genetic Diversity in Earthworms using DNA Markers. Zoological Science, 2011, 28, 25.	0.3	9
83	Identification of major quantitative trait loci qSBR11-1 for sheath blight resistance in rice. Molecular Breeding, 2010, 25, 155-166.	1.0	131
84	Evolution of Bcl-2 Anthogenes (BAG) as the Regulators of Cell Death in Wild and Cultivated Oryza Species. Journal of Plant Growth Regulation, 0, , 1.	2.8	3
85	Understanding aquaporins regulation and silicon uptake in carrot (Daucus carota). Journal of Plant Biochemistry and Biotechnology, 0, , .	0.9	0