Sachin Rustgi

List of Publications by Year
in descending order

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Version: 2024-02-01

69 papers	3,337 citations	172457 29 h-index	149698 56 g-index
72 all docs	72 docs citations	72 times ranked	4314 citing authors

#	Article	IF	Citations
1	Various potentially toxic element tolerances in different rice genotypes correlate with distinct physiological responses and alterations in DNA methylation.. Chemosphere, 2022, 292, 133462.	8.2	2
2	Targeting Induced Local Lesions in the Wheat DEMETER and DRE2 Genes, Responsible for Transcriptional Derepression of Wheat Gluten Proteins in the Developing Endosperm. Frontiers in Nutrition, 2022, 9, 847635.	3.7	3
3	Performance of Bayesian and BLUP alphabets for genomic prediction: analysis, comparison and results. Heredity, 2022, 128, 519-530.	2.6	15
4	Multi-faceted approaches for breeding nutrient-dense, disease-resistant, and climate-resilient crop varieties for food and nutritional security. Heredity, 2022, 128, 387-390.	2.6	5
5	Outlook for Implementation of Genomics-Based Selection in Public Cotton Breeding Programs. Plants, 2022, 11, 1446.	3.5	4
6	Development and use of miRNA-derived SSR markers for the study of genetic diversity, population structure, and characterization of genotypes for breeding heat tolerant wheat varieties. PLoS ONE, 2021, 16, e0231063.	2.5	25
7	tRNA-Dependent Import of a Transit Sequence-Less Aminoacyl-tRNA Synthetase (LeuRS2) into the Mitochondria of Arabidopsis. International Journal of Molecular Sciences, 2021, 22, 3808.	4.1	5
8	Population structure and genetic diversity of the Pee Dee cotton breeding program. G3: Genes, Genomes, Genetics, 2021, 11, .	1.8	4
9	PRAT Proteins Operate in Organellar Protein Import and Export in Arabidopsis thaliana. Plants, 2021, 10, 958.	3.5	1
10	Reduced-Immunogenicity Wheat Now Coming to Age. , 2021, , 15-42.		0
11	Probing early wheat grain development via transcriptomic and proteomic approaches. Functional and Integrative Genomics, 2020, 20, 63-74.	3.5	10
12	Registration of â€˜Fritzâ€™, a twoâ€row spring barley. Journal of Plant Registrations, 2020, 14, 242-249.	0.5	1
13	Directed-Mutagenesis of Flavobacterium meningosepticum Prolyl-Oligopeptidase and a Glutamine-Specific Endopeptidase From Barley. Frontiers in Nutrition, 2020, 7, 11.	3.7	15
14	Comparative Lipidomic Analysis Reveals Heat Stress Responses of Two Soybean Genotypes Differing in Temperature Sensitivity. Plants, 2020, 9, 457.	3.5	28
15	Health Hazards Associated with Wheat and Gluten Consumption in Susceptible Individuals and Status of Research on Dietary Therapies. , 2020, , 471-515.		3
16	Heat stress elicits remodeling in the anther lipidome of peanut. Scientific Reports, 2020, 10, 22163.	3.3	21
17	Diter von Wettstein, Professor of Genetics and Master of Translating Science into Applications. Methods in Molecular Biology, 2020, 2124, 3-18.	0.9	0
18	Use of Microspore-Derived Calli as Explants for Biolistic Transformation of Common Wheat. Methods in Molecular Biology, 2020, 2124, 263-279.	0.9	5

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19	Adverse Reactions to Wheat or Wheat Components. Comprehensive Reviews in Food Science and Food Safety, 2019, 18, 1437-1452.	11.7	71
20	Transgenerational memory of gene expression changes induced by heavy metal stress in rice (Oryza) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.6	101
21	Wheat Seed Proteins: Factors Influencing Their Content, Composition, and Technological Properties, and Strategies to Reduce Adverse Reactions. Comprehensive Reviews in Food Science and Food Safety, 2019, 18, 1751-1769.	11.7	41
22	Substrate channeling in oxylipin biosynthesis through a protein complex in the plastid envelope ofArabidopsis thaliana. Journal of Experimental Botany, 2019, 70, 1483-1495.	4.8	28
23	ALLENE OXIDE SYNTHASE and HYDROPEROXIDE LYASE, Two Non-Canonical Cytochrome P450s in Arabidopsis thaliana and Their Different Roles in Plant Defense. International Journal of Molecular Sciences, 2019, 20, 3064.	4.1	22
24	Gluten Detection Methods and their Critical Role in Assuring Safe Diets for Celiac Patients. Nutrients, 2019, 11, 2920.	4.1	31
25	Development of wheat genotypes expressing a glutamine-specific endoprotease from barley and a prolyl endopeptidase from Flavobacterium meningosepticum or Pyrococcus furiosus as a potential remedy to celiac disease. Functional and Integrative Genomics, 2019, 19, 123-136.	3.5	19
26	Transcriptomeâ€based analyses of phosphiteâ€mediated suppression of rust pathogens Puccinia emaculata and Phakopsora pachyrhizi and functional characterization of selected fungal target genes. Plant Journal, 2018, 93, 894-904.	5.7	31
27	The complex world of plant protease inhibitors: Insights into a Kunitz-type cysteine protease inhibitor of Arabidopsis thaliana. Communicative and Integrative Biology, 2018, 11, e1368599.	1.4	53
28	NADPH:protochlorophyllide oxidoreductase B (PORB) action in Arabidopsis thaliana revisited through transgenic expression of engineered barley PORB mutant proteins. Plant Molecular Biology, 2017, 94, 45-59.	3.9	11
29	Serpin1 and WSCP differentially regulate the activity of the cysteine protease RD21 during plant development in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2212-2217.	7.1	67
30	HP30â€2, a mitochondrial PRAT protein for import of signal sequenceâ€less precursor proteins in Arabidopsis thaliana. Journal of Integrative Plant Biology, 2017, 59, 535-551.	8.5	3
31	Doubled Haploid Transgenic Wheat Lines by Microspore Transformation. Methods in Molecular Biology, 2017, 1679, 213-234.	0.9	6
32	Pattern of Protein Expression in Developing Wheat Grains Identified through Proteomic Analysis. Frontiers in Plant Science, 2017, 8, 962.	3.6	28
33	An Ethylene-Protected Achillesâ€™ Heel of Etiolated Seedlings for Arthropod Deterrence. Frontiers in Plant Science, 2016, 7, 1246.	3.6	15
34	Jasmonic acid protects etiolated seedlings of Arabidopsis thaliana against herbivorous arthropods. Plant Signaling and Behavior, 2016, 11, e1214349.	2.4	6
35	Common functions of the chloroplast and mitochondrial co-chaperones cpDnaJL (CDF1) and mtDnaJ (PAM16) in protein import and ROS scavenging in Arabidopsis thaliana. Communicative and Integrative Biology, 2016, 9, e1119343.	1.4	10
36	Programmed chloroplast destruction during leaf senescence involves 13-lipoxygenase (13-LOX). Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3383-3388.	7.1	40

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37	Water-soluble chlorophyll protein is involved in herbivore resistance activation during greening of Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7303-7308.	7.1	32
38	DNA Methylation Changes Induced in Rice by Exposure to High Concentrations of the Nitric Oxide Modulator, Sodium Nitroprusside. Plant Molecular Biology Reporter, 2015, 33, 1428-1440.	1.8	23
39	A Kunitz-type protease inhibitor regulates programmed cell death during flower development inArabidopsis thaliana. Journal of Experimental Botany, 2015, 66, 6119-6135.	4.8	51
40	Cell growth defect factor 1 is crucial for the plastid import of NADPH:protochlorophyllide oxidoreductase A in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5838-5843.	7.1	16
41	Mutation of a major CG methylase in rice causes genome-wide hypomethylation, dysregulated genome expression, and seedling lethality. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10642-10647.	7.1	149
42	Evolution of physiological responses to salt stress in hexaploid wheat. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11882-11887.	7.1	159
43	JIP60-mediated, jasmonate- and senescence-induced molecular switch in translation toward stress and defense protein synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14181-14186.	7.1	36
44	Silencing of a metaphase I-specific gene results in a phenotype similar to that of the Pairing homeologous 1 (Ph1) gene mutations. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14187-14192.	7.1	78
45	Analysis of Wheat Prolamins, the Causative Agents of Celiac Sprue, Using Reversed Phase High Performance Liquid Chromatography (RP-HPLC) and Matrix-Assisted Laser Desorption Ionization Time of Flight Mass Spectrometry (MALDI-TOF-MS). Nutrients, 2014, 6, 1578-1597.	4.1	31
46	Assessment of Genetic Diversity among Barley Cultivars and Breeding Lines Adapted to the US Pacific Northwest, and Its Implications in Breeding Barley for Imidazolinone-Resistance. PLoS ONE, 2014, 9, e100998.	2.5	5
47	Array-Based High-Throughput DNA Markers and Genotyping Platforms for Cereal Genetics and Genomics. , 2013, , 11-55.		20
48	Intrinsic karyotype stability and gene copy number variations may have laid the foundation for tetraploid wheat formation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19466-19471.	7.1	79
49	Persistent whole-chromosome aneuploidy is generally associated with nascent allohexaploid wheat. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3447-3452.	7.1	180
50	Genetic Dissection of Yield and Its Component Traits Using High-Density Composite Map of Wheat Chromosome 3A: Bridging Gaps between QTLs and Underlying Genes. PLoS ONE, 2013, 8, e70526.	2.5	40
51	Generation of Doubled Haploid Transgenic Wheat Lines by Microspore Transformation. PLoS ONE, 2013, 8, e80155.	2.5	44
52	Bringing Barley Back in Crop Rotation by Breeding for Imidazolinone Resistance. , 2013, 02, .		2
53	Structural genes of wheat and barley 5-methylcytosine DNA glycosylases and their potential applications for human health. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20543-20548.	7.1	87
54	Targeted modification of wheat grain protein to reduce the content of celiac causing epitopes. Functional and Integrative Genomics, 2012, 12, 417-438.	3.5	32

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55	Virus-induced gene silencing (VIGS) of genes expressed in root, leaf, and meiotic tissues of wheat. Functional and Integrative Genomics, 2012, 12, 143-156.	3.5	74
56	Single nucleotide mutation in the barley acetohydroxy acid synthase (AHAS) gene confers resistance to imidazolinone herbicides. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8909-8913.	7.1	50
57	Use of methylation filtration and C0t fractionation for analysis of genome composition and comparative genomics in bread wheat. Journal of Genetics and Genomics, 2011, 38, 315-325.	3.9	2
58	EST-SSR Development from 5 Lactuca Species and Their Use in Studying Genetic Diversity Among L. serriola Biotypes. Journal of Heredity, 2011, 102, 17-28.	2.4	25
59	A preliminary genetic analysis of fibre traits and the use of new genomic SSRs for genetic diversity in jute. Euphytica, 2008, 161, 413-427.	1.2	62
60	Array-based high-throughput DNA markers for crop improvement. Heredity, 2008, 101, 5-18.	2.6	285
61	Fine structure mapping of a gene-rich region of wheat carrying Ph1 , a suppressor of crossing over between homoeologous chromosomes. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5815-5820.	7.1	33
62	Genetic and molecular basis of grain size and grain number and its relevance to grain productivity in higher plants. Genome, 2006, 49, 565-571.	2.0	143
63	Development and use of anchored-SSRs to study DNA polymorphism in bread wheat (Triticum aestivum) Tj ETQq1 1 0.784314 rgBT /O	1.7	7
64	Linkage disequilibrium and association studies in higher plants: Present status and future prospects. Plant Molecular Biology, 2005, 57, 461-485.	3.9	555
65	Wheat cytogenetics in the genomics era and its relevance to breeding. Cytogenetic and Genome Research, 2005, 109, 315-327.	1.1	34
66	Molecular markers from the transcribed/expressed region of the genome in higher plants. Functional and Integrative Genomics, 2004, 4, 139-62.	3.5	210
67	DNA polymorphism among 18 species of Triticumâ€“Aegilops complex using wheat ESTâ€“SSRs. Plant Science, 2004, 166, 349-356.	3.6	55
68	Heat tolerance as a function of membrane lipid remodeling in the major US oilseed crops (soybean and) Tj ETQq0 0 0 rgBT /Overlock 10	1.7	7
69	Reduced-Immunogenicity Wheat and Peanut Lines for People with Foodborne Disorders. , 0, , .		0