Manish Roorkiwal

List of Publications by Year
in descending order

62 papers	4,451 citations	159585 30 h-index	144013 57 g-index
64 all docs	64 docs citations	64 times ranked	3803 citing authors

#	Article	IF	Citations
1	Genomic Selection in Plant Breeding: Methods, Models, and Perspectives. Trends in Plant Science, 2017, 22, 961-975.	8.8	1,004
2	Legume Crops Phylogeny and Genetic Diversity for Science and Breeding. Critical Reviews in Plant Sciences, 2015, 34, 43-104.	5.7	248
3	Resequencing of 429 chickpea accessions from 45 countries provides insights into genome diversity, domestication and agronomic traits. Nature Genetics, 2019, 51, 857-864.	21.4	219
4	Genetic Dissection of Drought and Heat Tolerance in Chickpea through Genome-Wide and Candidate Gene-Based Association Mapping Approaches. PLoS ONE, 2014, 9, e96758.	2.5	187
5	Genotyping-by-sequencing based intra-specific genetic map refines a â€˜â€˜QTL-hotspotâ€•region for drought tolerance in chickpea. Molecular Genetics and Genomics, 2015, 290, 559-571.	2.1	180
6	Emerging Genomic Tools for Legume Breeding: Current Status and Future Prospects. Frontiers in Plant Science, 2016, 7, 455.	3.6	180
7	QTLâ€seq for rapid identification of candidate genes for 100â€seed weight and root/total plant dry weight ratio under rainfed conditions in chickpea. Plant Biotechnology Journal, 2016, 14, 2110-2119.	8.3	177
8	Super-Pangenome by Integrating the Wild Side of a Species for Accelerated Crop Improvement. Trends in Plant Science, 2020, 25, 148-158.	8.8	177
9	Prioritization of candidate genes in â€œQTL-hotspotâ€•region for drought tolerance in chickpea (Cicer) Tj ETQq1 1 0.784314 rgBT /Ove	3.3	131
10	Genome-Enabled Prediction Models for Yield Related Traits in Chickpea. Frontiers in Plant Science, 2016, 7, 1666.	3.6	127
11	Genetic diversity of root system architecture in response to drought stress in grain legumes. Journal of Experimental Botany, 2018, 69, 3267-3277.	4.8	124
12	Multi-parent populations in crops: a toolbox integrating genomics and genetic mapping with breeding. Heredity, 2020, 125, 396-416.	2.6	124
13	A chickpea genetic variation map based on the sequencing of 3,366 genomes. Nature, 2021, 599, 622-627.	27.8	106
14	Whole genome re-sequencing reveals genome-wide variations among parental lines of 16 mapping populations in chickpea (Cicer arietinum L.). BMC Plant Biology, 2016, 16, 10.	3.6	101
15	Integrating genomics for chickpea improvement: achievements and opportunities. Theoretical and Applied Genetics, 2020, 133, 1703-1720.	3.6	82
16	Fast-forward breeding for a food-secure world. Trends in Genetics, 2021, 37, 1124-1136.	6.7	82
17	Recent breeding programs enhanced genetic diversity in both desi and kabuli varieties of chickpea (Cicer arietinum L.). Scientific Reports, 2016, 6, 38636.	3.3	77
18	Development and evaluation of highâ€density Axiom^{Â®}<i>Cicer<scp>SNP</scp></i>ÂArray for highâ€resolution genetic mapping and breeding applications in chickpea. Plant Biotechnology Journal, 2018, 16, 890-901.	8.3	76

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19	Introgression of â€œ<i>QTLâ€hotspot</i>â€•region enhances drought tolerance and grain yield in three elite chickpea cultivars. Plant Genome, 2021, 14, e20076.	2.8	73
20	Advances in genetics and molecular breeding of three legume crops of semi-arid tropics using next-generation sequencing and high-throughput genotyping technologies. Journal of Biosciences, 2012, 37, 811-820.	1.1	68
21	Single Nucleotide Polymorphismâ€“based Genetic Diversity in the Reference Set of Peanut (<i>Arachis</i> spp.) by Developing and Applying Costâ€Effective Kompetitive Allele Specific Polymerase Chain Reaction Genotyping Assays. Plant Genome, 2013, 6, plantgenome2013.06.0019.	2.8	65
22	Super Annigeri 1 and improved JG 74: two Fusarium wilt-resistant introgression lines developed using marker-assisted backcrossing approach in chickpea (Cicer arietinum L.). Molecular Breeding, 2019, 39, 2.	2.1	62
23	Genomic-enabled prediction models using multi-environment trials to estimate the effect of genotypeâ€‰Ã—â€‰environment interaction on prediction accuracy in chickpea. Scientific Reports, 2018, 8, 11701.	3.3	61
24	Single Nucleotide Polymorphism Genotyping for Breeding and Genetics Applications in Chickpea and Pigeonpea using the BeadXpress Platform. Plant Genome, 2013, 6, plantgenome2013.05.0017.	2.8	55
25	Breeding customâ€designed crops for improved drought adaptation. Genetics & Genomics Next, 2021, 2, e202100017.	1.5	48
26	Allele diversity for abiotic stress responsive candidate genes in chickpea reference set using gene based SNP markers. Frontiers in Plant Science, 2014, 5, 248.	3.6	46
27	InDel markers: An extended marker resource for molecular breeding in chickpea. PLoS ONE, 2019, 14, e0213999.	2.5	43
28	Exploring Germplasm Diversity to Understand the Domestication Process in Cicer spp. Using SNP and DArT Markers. PLoS ONE, 2014, 9, e102016.	2.5	42
29	Genetic Dissection and Identification of Candidate Genes for Salinity Tolerance Using AxiomÂ®CicerSNP Array in Chickpea. International Journal of Molecular Sciences, 2020, 21, 5058.	4.1	38
30	Genetic variation among 481 diverse soybean accessions, inferred from genomic re-sequencing. Scientific Data, 2021, 8, 50.	5.3	38
31	QTLian breeding for climate resilience in cereals: progress and prospects. Functional and Integrative Genomics, 2019, 19, 685-701.	3.5	34
32	Strategies for Effective Use of Genomic Information in Crop Breeding Programs Serving Africa and South Asia. Frontiers in Plant Science, 2020, 11, 353.	3.6	33
33	Genetic variation in <i>CaTIFY4b</i> contributes to drought adaptation in chickpea. Plant Biotechnology Journal, 2022, 20, 1701-1715.	8.3	23
34	Chromosome-length genome assemblies of six legume species provide insights into genome organization, evolution, and agronomic traits for crop improvement. Journal of Advanced Research, 2022, 42, 315-329.	9.5	20
35	Molecular Mechanisms and Biochemical Pathways for Micronutrient Acquisition and Storage in Legumes to Support Biofortification for Nutritional Security. Frontiers in Plant Science, 2021, 12, 682842.	3.6	19
36	Characterization of ASR gene and its role in drought tolerance in chickpea (Cicer arietinum L.). PLoS ONE, 2020, 15, e0234550.	2.5	18

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37	Construction of a high-density genetic map and QTL analysis for yield, yield components and agronomic traits in chickpea (Cicer arietinum L.). PLoS ONE, 2021, 16, e0251669.	2.5	18
38	Genome-wide transcriptome analysis and physiological variation modulates gene regulatory networks acclimating salinity tolerance in chickpea. Environmental and Experimental Botany, 2021, 187, 104478.	4.2	17
39	Rapid delivery systems for future food security. Nature Biotechnology, 2021, 39, 1179-1181.	17.5	17
40	Chickpea. , 2013, , 81-111.		16
41	Development of a dense genetic map and QTL analysis for pod borer Helicoverpa armigera (HÃ¼bner) resistance component traits in chickpea (Cicer arietinum L .). Plant Genome, 2021, 14, e20071.	2.8	16
42	Novel Genes and Genetic Loci Associated With Root Morphological Traits, Phosphorus-Acquisition Efficiency and Phosphorus-Use Efficiency in Chickpea. Frontiers in Plant Science, 2021, 12, 636973.	3.6	15
43	Molecular and phenotypic diversity among chickpea (Cicer arietinum) genotypes as a function of drought tolerance. Crop and Pasture Science, 2018, 69, 142.	1.5	14
44	Mapping Quantitative Trait Loci for Carotenoid Concentration in Three F₂ Populations of Chickpea. Plant Genome, 2019, 12, 1-12.	2.8	13
45	A classification scoring schema to validate protein interactors. Bioinformation, 2012, 8, 92-97.	0.5	13
46	The Key to the Future Lies in the Past: Insights from Grain Legume Domestication and Improvement Should Inform Future Breeding Strategies. Plant and Cell Physiology, 2022, 63, 1554-1572.	3.1	13
47	Genome-wide analysis of conservation and divergence of microsatellites in rice. Molecular Genetics and Genomics, 2009, 282, 205-215.	2.1	12
48	Legume Genomics: From Genomic Resources to Molecular Breeding. Plant Genome, 2013, 6, plantgenome2013.12.0002in.	2.8	12
49	Genetic imprints of domestication for disease resistance, oil quality, and yield component traits in groundnut (Arachis hypogaea L.). Molecular Genetics and Genomics, 2019, 294, 365-378.	2.1	12
50	Genome-wide identification and functional prediction of salt- stress related long non-coding RNAs (lncRNAs) in chickpea (Cicer arietinum L.). Physiology and Molecular Biology of Plants, 2021, 27, 2605-2619.	3.1	12
51	Agronomic Performance of Chickpea Affected by Drought Stress at Different Growth Stages. Agronomy, 2022, 12, 995.	3.0	12
52	Genetic, Epigenetic, Genomic and Microbial Approaches to Enhance Salt Tolerance of Plants: A Comprehensive Review. Biology, 2021, 10, 1255.	2.8	10
53	Mining functional microsatellites in legume unigenes. Bioinformation, 2011, 7, 264-270.	0.5	9
54	Genomic Selection for Crop Improvement: An Introduction. , 2017, , 1-6.		8

#	Article	IF	Citations
55	Current Status and Prospects of Genomic Selection in Legumes. , 2017, , 131-147.		7
56	The genetics of vigour-related traits in chickpea (Cicer arietinum L.): insights from genomic data. Theoretical and Applied Genetics, 2021, 135, 107.	3.6	4
57	Advances in Chickpea Genomic Resources for Accelerating the Crop Improvement. Compendium of Plant Genomes, 2017, , 53-67.	0.5	3
58	Translational Chickpea Genomics Consortium to Accelerate Genetic Gains in Chickpea (Cicer arietinum) Tj ETQq0 0 0 rgBT /Overlock 10	3.5	2
59	Purifying Selection Bias against Microsatellites in Gene Rich Segmental Duplications in the Rice Genome. International Journal of Evolutionary Biology, 2012, 2012, 1-8.	1.0	1
60	Chickpea Genomics. , 2018, , 289-316.		1
61	Breeding customâ€designed crops for improved drought adaptation. Genetics & Genomics Next, 0, , .	1.5	0
62	Screening and Validation of Drought Tolerance and Fusarium Wilt Resistance in Advance Breeding Lines of Chickpea (Cicer arietinum L.). Legume Research, 2021, , .	0.1	0