Rakesh Singh

List of Publications by Year
in descending order

70 papers	1,748 citations	361413 20 h-index	302126 39 g-index
70 all docs	70 docs citations	70 times ranked	2169 citing authors

#	Article	IF	Citations
1	Comparison of SSR and SNP Markers in Estimation of Genetic Diversity and Population Structure of Indian Rice Varieties. PLoS ONE, 2013, 8, e84136.	2.5	192
2	Mapping of quantitative trait loci for basmati quality traits in rice (Oryza sativa L.). Molecular Breeding, 2007, 21, 49-65.	2.1	177
3	Combining QTL mapping and transcriptome profiling of bulked RILs for identification of functional polymorphism for salt tolerance genes in rice (Oryza sativa L.). Molecular Genetics and Genomics, 2010, 284, 121-136.	2.1	157
4	Chickpea Improvement: Role of Wild Species and Genetic Markers. Biotechnology and Genetic Engineering Reviews, 2008, 25, 267-314.	6.2	102
5	Genetic diversity trend in Indian rice varieties: an analysis using SSR markers. BMC Genetics, 2016, 17, 127.	2.7	73
6	SNP haplotypes of the BADH1 gene and their association with aroma in rice (Oryza sativa L.). Molecular Breeding, 2010, 26, 325-338.	2.1	65
7	CAAT box- derived polymorphism (CBDP): a novel promoter -targeted molecular marker for plants. Journal of Plant Biochemistry and Biotechnology, 2014, 23, 175-183.	1.7	60
8	Study of arbitrarily amplified (RAPD and ISSR) and gene targeted (SCoT and CBDP) markers for genetic diversity and population structure in Kalmegh [Andrographis paniculata (Burm. f.) Nees]. Industrial Crops and Products, 2016, 86, 1-11.	5.2	60
9	Recent Advances in Polyamine Metabolism and Abiotic Stress Tolerance. BioMed Research International, 2014, 2014, 1-9.	1.9	59
10	Analysis of Genetic Diversity and Population Structure of Rice Germplasm from North-Eastern Region of India and Development of a Core Germplasm Set. PLoS ONE, 2014, 9, e113094.	2.5	59
11	Genetic diversity and population structure study of drumstick (Moringa oleifera Lam.) using morphological and SSR markers. Industrial Crops and Products, 2014, 60, 316-325.	5.2	51
12	Fine mapping of grain length QTLs on chromosomes 1 and 7 in Basmati rice (Oryza sativa L.). Journal of Plant Biochemistry and Biotechnology, 2012, 21, 157-166.	1.7	43
13	Identification, analysis and development of salt responsive candidate gene based SSR markers in wheat. BMC Plant Biology, 2018, 18, 249.	3.6	40
14	Molecular approaches for designing heat tolerant wheat. Journal of Plant Biochemistry and Biotechnology, 2013, 22, 359-371.	1.7	38
15	Genetic mapping and QTL analysis for sugar yield-related traits in sugarcane. Euphytica, 2013, 191, 333-353.	1.2	30
16	Assessment of genetic diversity and genetic relationships among 29 populations of Azadirachta indica A. Juss. using RAPD markers. Genetic Resources and Crop Evolution, 2005, 52, 285-292.	1.6	29
17	Micropropagation and slow growth conservation of cardamom (Elettaria cardamomum Maton). In Vitro Cellular and Developmental Biology - Plant, 2009, 45, 721-729.	2.1	26
18	In vitro conservation of Bacopa monnieri (L.) using mineral oil. Plant Cell, Tissue and Organ Culture, 2012, 111, 291-301.	2.3	24

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19	Development of novel g-SSR markers in guava (Psidium guajava L.) cv. Allahabad Safeda and their application in genetic diversity, population structure and cross species transferability studies. PLoS ONE, 2020, 15, e0237538.	2.5	24
20	Development of genomic simple sequence repeats (g-SSR) markers in Tinospora cordifolia and their application in diversity analyses. Plant Gene, 2016, 5, 118-125.	2.3	23
21	Mining of Indian wheat germplasm collection for adult plant resistance to leaf rust. PLoS ONE, 2019, 14, e0213468.	2.5	23
22	Exploring the potential of Ziziphus nummularia (Burm. f.) Wight et Arn. from drier regions of India. Genetic Resources and Crop Evolution, 2010, 57, 929-936.	1.6	21
23	Phenotypic and molecular studies for genetic stability assessment of cryopreserved banana meristems derived from field and in vitro explant sources. In Vitro Cellular and Developmental Biology - Plant, 2014, 50, 345-356.	2.1	21
24	Genetic diversity and population structure analysis of Kala bhat (Glycine max (L.) Merrill) genotypes using SSR markers. Hereditas, 2017, 154, 9.	1.4	20
25	Fine Mapping of Aroma QTLs in Basmati Rice (Oryza sativa L) on Chromosomes 3, 4 and 8. Journal of Plant Biochemistry and Biotechnology, 2007, 16, 75-82.	1.7	19
26	Molecular Analysis of Chickpea (Cicer arietinum L) Cultivars Using AFLP and STMS Markers. Journal of Plant Biochemistry and Biotechnology, 2008, 17, 167-171.	1.7	19
27	De novo transcriptome sequencing facilitates genomic resource generation in Tinospora cordifolia. Functional and Integrative Genomics, 2016, 16, 581-591.	3.5	19
28	Morphological and biochemical diversity among the Malus species including indigenous Himalayan wild apples. Scientia Horticulturae, 2018, 233, 204-219.	3.6	19
29	Assessment of Genetic Diversity in Ziziphus mauritiana Using Inter-Simple Sequence Repeat Markers. Journal of Plant Biochemistry and Biotechnology, 2007, 16, 35-40.	1.7	18
30	Genetic and biochemical stability assessment of plants regenerated from cryopreserved shoot tips of a commercially valuable medicinal herb Bacopa monnieri (L.) Wettst. In Vitro Cellular and Developmental Biology - Plant, 2017, 53, 346-351.	2.1	17
31	PolyMorphPredict: A Universal Web-Tool for Rapid Polymorphic Microsatellite Marker Discovery From Whole Genome and Transcriptome Data. Frontiers in Plant Science, 2018, 9, 1966.	3.6	15
32	Molecular diversity and SSR transferability studies in Vetiver grass (Vetiveria zizanioides L. Nash). Industrial Crops and Products, 2014, 53, 187-198.	5.2	14
33	Allelic sequence variation in the Sub1A, Sub1B and Sub1C genes among diverse rice cultivars and its association with submergence tolerance. Scientific Reports, 2020, 10, 8621.	3.3	14
34	Identification and evolutionary analysis of polycistronic miRNA clusters in domesticated and wild wheat. Genomics, 2020, 112, 2334-2348.	2.9	12
35	Multi-environmental evaluation of wheat genotypes for drought tolerance. Indian Journal of Genetics and Plant Breeding, 2017, 78, 26.	0.5	12
36	Mapping of QTLs for oil content and fatty acid composition in Indian mustard [Brassica juncea (L.) Czern. and Coss.]. Journal of Plant Biochemistry and Biotechnology, 2013, 22, 80-89.	1.7	11

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37	Genetic diversity and population structure analysis of wild Malus genotypes including the crabapples (M. baccata (L.) Borkh. & M. sikkimensis (Wenzig) Koehne ex C. Schneider) collected from the Indian Himalayan region using microsatellite markers. Genetic Resources and Crop Evolution, 2019, 66, 1311-1326.	1.6	11
38	Development of Novel Genomic Simple Sequence Repeat (g-SSR) Markers and Their Validation for Genetic Diversity Analyses in Kalmegh [Andrographis paniculata (Burm. F.) Nees]. Plants, 2020, 9, 1734.	3.5	11
39	A Comprehensive Review of Bunium persicum: A Valuable Medicinal Spice. Food Reviews International, 2023, 39, 1184-1202.	8.4	11
40	Molecular Approaches to Understand Nutritional Potential of Coarse Cereals. Current Genomics, 2016, 17, 177-192.	1.6	10
41	In Vitro Propagation and Conservation of Bacopa monnieri L.. Methods in Molecular Biology, 2016, 1391, 153-171.	0.9	9
42	Emerging roles of NAC transcription factor in medicinal plants: progress and prospects. 3 Biotech, 2021, 11, 425.	2.2	9
43	New hyper-variable SSRs for diversity analysis in mango (Mangifera indica L.). Indian Journal of Genetics and Plant Breeding, 2021, 81, 119-126.	0.5	8
44	Molecular Characterization and Genetic Relationships of Some Stress Tolerant Grape Rootstock Genotypes as Revealed by ISSR and SSR Markers. Plant Tissue Culture and Biotechnology, 2018, 28, 77-90.	0.2	6
45	Genetic diversity and relationship study of single and double petal tuberose (Polianthes tuberosaL.) cultivars based on RAPD and ISSR markers. Indian Journal of Horticulture, 2016, 73, 238.	0.1	6
46	Identification of a Diverse Core Set Panel of Rice From the East Coast Region of India Using SNP Markers. Frontiers in Genetics, 2021, 12, 726152.	2.3	6
47	New genomic markers for marker assisted breeding in mango (Mangifera indica L.). Journal of Horticultural Science and Biotechnology, 2021, 96, 624-633.	1.9	5
48	Reverse migratory behaviour of the earthquakes aftershock sequences along Himalayan Seismic Belt, Northwest Himalaya. Quaternary International, 2021, 585, 163-170.	1.5	5
49	Development of novel genomeâ€‘wide simple sequence repeats (SSR) markers in Bunium persicum. Industrial Crops and Products, 2022, 178, 114625.	5.2	5
50	Analysis of Genetic Diversity in Cicer arietinum L Using Random Amplified Polymorphic DNA Markers. Journal of Plant Biochemistry and Biotechnology, 2002, 11, 109-112.	1.7	4
51	Molecular detection of Cystoisospora belli by single-run polymerase chain reaction in stool samples. Indian Journal of Gastroenterology, 2021, 40, 512-518.	1.4	4
52	Development of water based drilling fluid using tamarind seed powder. Materials Today: Proceedings, 2021, 46, 10950-10953.	1.8	4
53	Comparative in vitro propagation of stress tolerant grape (Vitis spp.) rootstocks and assessment of clonal fidelity of plantlets. Indian Journal of Horticulture, 2017, 74, 317.	0.1	4
54	Transcriptome Analysis of Bread Wheat Genotype KRL3-4 Provides a New Insight Into Regulatory Mechanisms Associated With Sodicity (High pH) Tolerance. Frontiers in Genetics, 2021, 12, 782366.	2.3	4

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55	Characterization of Perilla frutescens (Linn.) Britt based on morphological, biochemical and STMS markers. Industrial Crops and Products, 2017, 109, 773-785.	5.2	3
56	A novel approach for detecting roundabouts in maps based on analysis of core map data. Multimedia Tools and Applications, 2020, 79, 30785-30811.	3.9	3
57	Assessment of genetic diversity of grape mutants based on RAPD and SSR markers. Indian Journal of Horticulture, 2021, 78, 17-24.	0.1	3
58	OUP accepted manuscript. journal of applied laboratory medicine, The, 2022, , .	1.3	3
59	Variation studies in a wild groundnut species, Arachis stenosperma Krapov. & W.C. Gregory nov. sp.. Plant Genetic Resources: Characterisation and Utilisation, 2004, 2, 99-106.	0.8	2
60	Study of inheritance and allelic relation of resistance to spot blotch (Bipolaris sorokiniana) of wheat. Biotech Today an International Journal of Biological Sciences, 2013, 3, 31.	0.1	2
61	Understanding the flash flood event of 7th February 2021 in Rishi Ganga basin, Central Himalaya using remote sensing technique. Remote Sensing Applications: Society and Environment, 2022, 26, 100744.	1.5	2
62	Molecular diversity study within holy basil species (Ocimum tenuiflorumL.) using ISSR and RAPD markers. Indian Journal of Horticulture, 2015, 72, 528.	0.1	1
63	Genetic diversity and population structure studies of the wild apple genotypes using RAPD markers. Indian Journal of Horticulture, 2018, 75, 546.	0.1	1
64	Draft Genome of Escherichia coli O146 Isolate from Maulana Azad Medical College, New Delhi, India. Genome Announcements, 2015, 3, .	0.8	0
65	Identification of Unique Type of Decorticated Grain Colour in Rice Designated as â€˜Potato Green Colourâ€™. Indian Journal of Plant Genetic Resources, 2021, 34, 79-81.	0.1	0
66	Role of mycology in accurate diagnosis of various fungal aetiologies in rhino/orbital diseases: â€˜needle in a haystackâ€™. BMJ Case Reports, 2021, 14, e242684.	0.5	0
67	Quantum combinatorial model of gene expression. Bioinformation, 2013, 9, 141-144.	0.5	0
68	Development of a novel InDel based molecular marker, a potential to differentiate most of the traditional Basmati from non-Basmati rice varieties. Indian Journal of Genetics and Plant Breeding, 2017, 77, 564.	0.5	0
69	SNP Marker Based Genetic Diversity and Population Structure Study of Rice Germplasm of Arunachal Pradesh. Indian Journal of Plant Genetic Resources, 2017, 30, 293.	0.1	0
70	CHICKPEA IMPROVEMENT: ROLE OF WILD SPECIES AND GENETIC MARKERS. , 0, , 267-314.		0