

Natesan Senthil

List of Publications by Year in descending order

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72
papers

1,625
citations

394421

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330143

37
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73
all docs

73
docs citations

73
times ranked

2177
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of the Grain Dispersal System in Barley. <i>Cell</i> , 2015, 162, 527-539.	28.9	265
2	Nanocurcumin: A Promising Candidate for Therapeutic Applications. <i>Frontiers in Pharmacology</i> , 2020, 11, 487.	3.5	213
3	Transcriptome analysis of salinity responsiveness in contrasting genotypes of finger millet (<i>Eleusine</i>) Tj ETQq1 1 0.784314 rgBT /Over 3.9	3.9	99
4	Novel Genetic Resources in the Genus <i>Vigna</i> Unveiled from Gene Bank Accessions. <i>PLoS ONE</i> , 2016, 11, e0147568.	2.5	74
5	High-density AFLP map of nonbrittle rachis 1 (<i>btr1</i>) and 2 (<i>btr2</i>) genes in barley (<i>Hordeum vulgare</i> L.). <i>Theoretical and Applied Genetics</i> , 2004, 109, 986-995.	3.6	71
6	Assessment of Genetic Diversity among Finger Millet (<i>Eleusine coracana</i> (L.) Gaertn.) Accessions using Molecular Markers. <i>Genetic Resources and Crop Evolution</i> , 2007, 54, 399-404.	1.6	53
7	Mungbean yellow mosaic virus (MYMV): a threat to green gram (<i>Vigna radiata</i>) production in Asia. <i>International Journal of Pest Management</i> , 2014, 60, 314-324.	1.8	53
8	Transcriptome profiling and comparative analysis of <i>Panax ginseng</i> adventitious roots. <i>Journal of Ginseng Research</i> , 2014, 38, 278-288.	5.7	53
9	Phenotype variations affect genetic association studies of degenerative disc disease: conclusions of analysis of genetic association of 58 single nucleotide polymorphisms with highly specific phenotypes for disc degeneration in 332 subjects. <i>Spine Journal</i> , 2013, 13, 1309-1320.	1.3	38
10	Marker-Assisted Selection to Pyramid the Opaque-2 (O2) and β -Carotene (<i>cr1</i>) Genes in Maize. <i>Frontiers in Genetics</i> , 2019, 10, 859.	2.3	35
11	Genome-Wide Association Mapping for Leaf Tip Necrosis and Pseudo-black Chaff in Relation to Durable Rust Resistance in Wheat. <i>Plant Genome</i> , 2015, 8, eplantgenome2015.01.0002.	2.8	34
12	Transcriptome analysis reveals in vitro cultured <i>Withania somnifera</i> leaf and root tissues as a promising source for targeted withanolide biosynthesis. <i>BMC Genomics</i> , 2015, 16, 14.	2.8	34
13	Detection of QTLs associated with mungbean yellow mosaic virus (MYMV) resistance using the interspecific cross of <i>Vigna radiata</i> \times <i>Vigna umbellata</i> . <i>Journal of Applied Genetics</i> , 2019, 60, 255-268.	1.9	31
14	Genetic susceptibility of lumbar degenerative disc disease in young Indian adults. <i>European Spine Journal</i> , 2015, 24, 1969-1975.	2.2	29
15	Screening of mungbean (<i>Vigna radiata</i>) germplasm for resistance to Mungbean yellow mosaic virus using agroinoculation. <i>Canadian Journal of Plant Pathology</i> , 2013, 35, 424-430.	1.4	27
16	Domesticating <i>Vigna stipulacea</i> : A Potential Legume Crop With Broad Resistance to Biotic Stresses. <i>Frontiers in Plant Science</i> , 2019, 10, 1607.	3.6	27
17	Marker assisted selection of low phytic acid trait in maize (<i>Zea mays</i> L.). <i>Hereditas</i> , 2014, 151, 20-27.	1.4	24
18	Molecular Studies on the Transmission of Indian Cassava Mosaic Virus (ICMV) and Sri Lankan Cassava Mosaic Virus (SLCMV) in Cassava by <i>Bemisia tabaci</i> and Cloning of ICMV and SLCMV Replicase Gene from Cassava. <i>Molecular Biotechnology</i> , 2013, 53, 150-158.	2.4	23

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19	Transcriptomes of Indian barnyard millet and barnyardgrass reveal putative genes involved in drought adaptation and micronutrient accumulation. <i>Acta Physiologiae Plantarum</i> , 2019, 41, 1.	2.1	22
20	Prevalence, Patterns, and Genetic Association Analysis of Modic Vertebral Endplate Changes. <i>Asian Spine Journal</i> , 2017, 11, 594-600.	2.0	22
21	Molecular studies on mungbean (<i>Vigna radiata</i> (L.) Wilczek) and ricebean (<i>Vigna</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T development of species-specific SCAR marker for ricebean. <i>Archives of Phytopathology and Plant Protection</i> , 2013, 46, 503-517.	1.3	21
22	Comparative Root Protein Profiles of Korean Ginseng (<i>Panax ginseng</i>) and Indian Ginseng (<i>Withania somnifera</i>). <i>The American Journal of Chinese Medicine</i> , 2012, 40, 203-218.	3.8	20
23	Genetic diversity in the barnyard millet (<i>Echinochola frumentacea</i>) germplasms revealed by morphological traits and simple sequence repeat markers. <i>Current Plant Biology</i> , 2018, 14, 71-78.	4.7	20
24	BrassicaTED - a public database for utilization of miniature transposable elements in Brassica species. <i>BMC Research Notes</i> , 2014, 7, 379.	1.4	18
25	Search for <i>Vigna</i> species conferring resistance to Mungbean yellow mosaic virus in mungbean. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2015, 13, 162-167.	0.8	17
26	Screening of IR50—Rathu Heenati F7 RILs and Identification of SSR Markers Linked to Brown Planthopper (<i>Nilaparvata lugens</i> Stål) Resistance in Rice (<i>Oryza sativa</i> L.). <i>Molecular Biotechnology</i> , 2010, 46, 63-71.	2.4	16
27	Enhancing β -Carotene Concentration in Parental Lines of CO6 Maize Hybrid Through Marker-Assisted Backcross Breeding (MABB). <i>Frontiers in Nutrition</i> , 2020, 7, 134.	3.7	16
28	Inter-subspecific maps of non-brittle rachis genes <i>btr1/btr2</i> using occidental, oriental and wild barley lines. <i>Euphytica</i> , 2005, 145, 215-220.	1.2	15
29	COMPARATIVE STUDIES ON THE IRON AND ZINC CONTENTS ESTIMATION USING ATOMIC ABSORPTION SPECTROPHOTOMETER AND GRAIN STAINING TECHNIQUES (PRUSSIAN BLUE AND DTZ) IN MAIZE GERMPLASMS. <i>Journal of Plant Nutrition</i> , 2013, 36, 329-342.	1.9	15
30	Incorporation of <i>opaque-2</i> into UMI 1200™, an elite maize inbred line, through marker-assisted backcross breeding. <i>Biotechnology and Biotechnological Equipment</i> , 2019, 33, 144-153.	1.3	15
31	Evaluation of Morphological and Molecular Diversity among South Asian Germplasms of <i>Cucumis sativus</i> and <i>Cucumis melo</i> . , 2012, 2012, 1-11.		14
32	Fingerprinting of Rice Hybrids and their Parental Lines using Microsatellite Markers and their Utilization in Genetic Purity Assessment of Hybrid Rice. <i>Research Journal of Seed Science</i> , 2009, 2, 40-47.	0.3	14
33	Screening and identification of random amplified polymorphic DNA (RAPD) markers linked to mungbean yellow mosaic virus (MYMV) resistance in mungbean (<i>Vigna radiata</i> (L.) Wilczek). <i>Archives of Phytopathology and Plant Protection</i> , 2012, 45, 712-716.	1.3	13
34	Marker-assisted introgression of <i>lpa2</i> locus responsible for low phytic acid trait into an elite tropical maize inbred (<i>Zea mays</i> L.). <i>Plant Breeding</i> , 2014, 133, 566-578.	1.9	12
35	How Reliable Are the Reported Genetic Associations in Disc Degeneration?. <i>Spine</i> , 2016, 41, 1649-1660.	2.0	12
36	The complete chloroplast genome sequence of Indian barnyard millet, <i>Echinochloa frumentacea</i> (Poaceae). <i>Mitochondrial DNA Part B: Resources</i> , 2016, 1, 79-80.	0.4	12

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37	Functional characterization and substrate specificity analysis of Δ^6 -desaturase from marine microalga <i>Isochrysis</i> sp.. <i>Biotechnology Letters</i> , 2018, 40, 577-584.	2.2	12
38	QTL mapping in <i>Vigna radiata</i> \times <i>Vigna umbellata</i> population uncovers major genomic regions associated with bruchid resistance. <i>Molecular Breeding</i> , 2019, 39, 1.	2.1	12
39	Delineation of Genotype \times Environment Interaction for Identification of Stable Genotypes to Grain Yield in Mungbean. <i>Frontiers in Agronomy</i> , 2020, 2, .	3.3	12
40	Heterologous Production of Polyunsaturated Fatty Acids in <i>E. coli</i> Using Δ^5 -Desaturase Gene from Microalga <i>Isochrysis</i> Sp.. <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 869-883.	2.9	9
41	Interaction of water activity and temperature on growth, gene expression, and aflatoxin B1 production in <i>Aspergillus flavus</i> on Indian senna (<i>Cassia angustifolia</i> Vahl). <i>International Journal of Food Microbiology</i> , 2022, 361, 109457.	4.7	9
42	Levels of Plant Resistance in Chillies <i>Capsicum</i> spp against Whitefly, <i>Bemisia tabaci</i> . <i>International Journal of Current Microbiology and Applied Sciences</i> , 2018, 7, 1419-1441.	0.1	7
43	Biochemical Changes Due to Seed Priming in Maize Hybrid COH(M) 5. <i>Research Journal of Seed Science</i> , 2012, 5, 71-83.	0.3	7
44	Development of Δ^2 -carotene, lysine, and tryptophan-rich maize (<i>Zea mays</i>) inbreds through marker-assisted gene pyramiding. <i>Scientific Reports</i> , 2022, 12, .	3.3	7
45	Marker aided introgression of opaque 2 (o2) allele improving lysine and tryptophan in maize (<i>Zea mays</i>) Tj ETQq1 1_0,784314 rgBT /O 3.1 6	3.1	6
46	Improvement of a Yairipok Chujak Maize Landrace from North Eastern Himalayan Region for Δ^2 -Carotene Content through Molecular Marker-Assisted Backcross Breeding. <i>Genes</i> , 2021, 12, 762.	2.4	6
47	Dynamic Transcriptome Profiling of Mungbean Genotypes Unveil the Genes Respond to the Infection of Mungbean Yellow Mosaic Virus. <i>Pathogens</i> , 2022, 11, 190.	2.8	6
48	Assessment of crtRB1 Polymorphism Associated with Increased Δ^2 -Carotene Content in Maize (<i>Zea mays</i> L.) Seeds. <i>Food Biotechnology</i> , 2014, 28, 41-49.	1.5	5
49	A new taxonomic treatment for some wild relatives of mungbean (<i>Vigna radiata</i> (L.) Wilcz.) based on their molecular phylogenetic relationships and morphological variations. <i>Genetic Resources and Crop Evolution</i> , 2018, 65, 1109-1121.	1.6	5
50	Characterization of potential probiotic bacteria from Δ^6 -panchamirtham Δ^6 ™; A Southern Indian ethnic fermented fruit mix. <i>LWT - Food Science and Technology</i> , 2019, 116, 108540.	5.2	5
51	Population structure and association mapping studies for yield-related traits in Maize (<i>Zea mays</i> L.). <i>Current Plant Biology</i> , 2019, 18, 100103.	4.7	5
52	QTL mapping for sorghum downy mildew disease resistance in maize (<i>Zea mays</i> L.) in recombinant inbred line population of UMI79 X UMI936 (w). <i>Current Plant Biology</i> , 2019, 20, 100124.	4.7	4
53	A web accessible resource for investigating cassava phenomics and genomics information: BIOGEN BASE. <i>Bioinformatics</i> , 2011, 6, 391-392.	0.5	4
54	Introgression of QTLs determining sorghum downy mildew (SDM) resistance into elite maize line UMI 79 through marker-assisted backcross breeding (MABC). <i>Australasian Plant Pathology</i> , 2020, 49, 159-165.	1.0	3

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55	Molecular Mapping of Non-Brittle Rachis Genes btr1 and btr2 using STS Markers in Barley. <i>Japan Agricultural Research Quarterly</i> , 2006, 40, 239-242.	0.4	3
56	Proteomic Analysis of Cassava Mosaic Virus (CMV) Responsive Proteins in Cassava Leaf. <i>International Journal of Current Microbiology and Applied Sciences</i> , 2019, 8, 2988-3005.	0.1	3
57	Characterization of Little millet (<i>Panicum sumatrense</i>) varieties using Morphological descriptors and SSR based DNA fingerprinting. <i>Journal of Phytology</i> , 0, , 29-34.	0.3	3
58	The Hunt for Mungbean (<i>Vigna radiata</i> (L.) Wilczek) Genotypes and Breeding Lines Resistance to South Indian Bruchid Strain. <i>Agriculture (Switzerland)</i> , 2022, 12, 1050.	3.1	3
59	Proteomic analysis of compatible and incompatible interactions of wheat with <i>Puccinia triticina</i> . <i>Physiological and Molecular Plant Pathology</i> , 2016, 96, 36-46.	2.5	2
60	Characterization of crtRB1 Gene Polymorphism and β -Carotene Content in Maize Landraces Originated From North Eastern Himalayan Region (NEHR) of India. <i>Frontiers in Sustainable Food Systems</i> , 2020, 4, .	3.9	2
61	Genetics and molecular markers for anthocyanin pigmentation in barnyard millet (<i>Echinochloa</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.9	2
62	DNA fingerprinting of foxtail millet (<i>Setaria italica</i> L.) variety ATL 1 using SSR and RAPD markers along with morphological descriptors. <i>Tropical Plant Research</i> , 2020, 7, 587-593.	0.4	2
63	Distinctive Physio-Biochemical Properties and Transcriptional Changes Unfold the Mungbean Cultivars Differing by Their Response to Drought Stress at Flowering Stage. <i>Horticulturae</i> , 2022, 8, 424.	2.8	2
64	Starch content and cassava mosaic disease genetic diversity with relation to yield in south Indian cassava (<i>Manihot esculenta</i> Crantz) germplasm. <i>Journal of Crop Science and Biotechnology</i> , 2011, 14, 179-189.	1.5	1
65	Interactive Effect of Environmental Factors on Biological Responses of Storage Pulse Beetle. <i>Madras Agricultural Journal</i> , 2017, 104, 368.	0.0	1
66	Varietal identification and fingerprinting of Pearl Millet (<i>Pennisetum glaucum</i> L.) varieties and hybrid using morphological descriptors and SSR markers. <i>Current Botany</i> , 0, , 105-109.	0.0	0
67	Structural Insights and Characterization of a Novel Transmembrane Binding Site for Potential Allosteric Modulation of the μ -opioid Receptor. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
68	Allosteric modulation of cannabinoid receptors through transmembrane binding sites as a potential therapeutic intervention for pain and inflammation. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
69	Development of Genome-wide Simple Sequence Repeat Markers from Whole-genome Sequence of Mungbean (<i>Vigna radiata</i>). <i>Legume Research</i> , 2021, , .	0.1	0
70	MAGICdb – Mango Genetic stocks Identification and Characterisation database. <i>Bioinformatics</i> , 2013, 9, 838-839.	0.5	0
71	Estimates of genetic variability among the backcross populations involving UMI1200 and UMI1230 maize inbreds. <i>Electronic Journal of Plant Breeding</i> , 2018, 9, 1577.	0.1	0
72	In vitro Evaluation of Antimicrobial Activity of Lactic Acid Bacteria Isolated From Fermented Fruit Mix - Indian Traditional Fermented Foods, Against Selected Food Borne Pathogens. <i>International Journal of Current Microbiology and Applied Sciences</i> , 2019, 8, 3122-3126.	0.1	0