

Natesan Senthil

List of Publications by Year in descending order

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72
papers

1,625
citations

394421

19
h-index

330143

37
g-index

73
all docs

73
docs citations

73
times ranked

2177
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Development of β -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
5	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
6	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
7	Genetics and molecular markers for anthocyanin pigmentation in barnyard millet (<i>Echinochloa</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.9	2
8	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
9	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
10	Improvement of a Yairipok Chujak Maize Landrace from North Eastern Himalayan Region for β -Carotene Content through Molecular Marker-Assisted Backcross Breeding. <i>Genes</i> , 2021, 12, 762.	2.4	6
11	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
12	Marker aided introgression of opaque 2 (o2) allele improving lysine and tryptophan in maize (<i>Zea mays</i>) Tj ETQq0 0,0 rgBT /Overlock 10	3.1	6
13	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
14	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
15	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
16	Nanocurcumin: A Promising Candidate for Therapeutic Applications. <i>Frontiers in Pharmacology</i> , 2020, 11, 487.	3.5	213
17	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
18	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

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19	QTL mapping in <i>Vigna radiata</i> × <i>Vigna umbellata</i> population uncovers major genomic regions associated with bruchid resistance. <i>Molecular Breeding</i> , 2019, 39, 1.	2.1	12
20	Detection of QTLs associated with mungbean yellow mosaic virus (MYMV) resistance using the interspecific cross of <i>Vigna radiata</i> × <i>Vigna umbellata</i> . <i>Journal of Applied Genetics</i> , 2019, 60, 255-268.	1.9	31
21	Marker-Assisted Selection to Pyramid the Opaque-2 (O2) and β -Carotene (crtRB1) Genes in Maize. <i>Frontiers in Genetics</i> , 2019, 10, 859.	2.3	35
22	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
23	Characterization of potential probiotic bacteria from "panchamirtham"; A Southern Indian ethnic fermented fruit mix. <i>LWT - Food Science and Technology</i> , 2019, 116, 108540.	5.2	5
24	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
25	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
26	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
27	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
28	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
29	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
30	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
31	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
32	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
33	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
34	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
35	Interactive Effect of Environmental Factors on Biological Responses of Storage Pulse Beetle. <i>Madras Agricultural Journal</i> , 2017, 104, 368.	0.0	1
36	Prevalence, Patterns, and Genetic Association Analysis of Modic Vertebral Endplate Changes. <i>Asian Spine Journal</i> , 2017, 11, 594-600.	2.0	22

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37	Novel Genetic Resources in the Genus <i>Vigna</i> Unveiled from Gene Bank Accessions. PLoS ONE, 2016, 11, e0147568.	2.5	74
38	Proteomic analysis of compatible and incompatible interactions of wheat with <i>Puccinia triticina</i> . Physiological and Molecular Plant Pathology, 2016, 96, 36-46.	2.5	2
39	How Reliable Are the Reported Genetic Associations in Disc Degeneration?. Spine, 2016, 41, 1649-1660.	2.0	12
40	The complete chloroplast genome sequence of Indian barnyard millet, <i>Echinochloa frumentacea</i> (Poaceae). Mitochondrial DNA Part B: Resources, 2016, 1, 79-80.	0.4	12
41	Search for <i>Vigna</i> species conferring resistance to Mungbean yellow mosaic virus in mungbean. Plant Genetic Resources: Characterisation and Utilisation, 2015, 13, 162-167.	0.8	17
42	Genetic susceptibility of lumbar degenerative disc disease in young Indian adults. European Spine Journal, 2015, 24, 1969-1975.	2.2	29
43	Evolution of the Grain Dispersal System in Barley. Cell, 2015, 162, 527-539.	28.9	265
44	Genome-Wide Association Mapping for Leaf Tip Necrosis and Pseudo-black Chaff in Relation to Durable Rust Resistance in Wheat. Plant Genome, 2015, 8, eplantgenome2015.01.0002.	2.8	34
45	Transcriptome analysis reveals in vitro cultured <i>Withania somnifera</i> leaf and root tissues as a promising source for targeted withanolide biosynthesis. BMC Genomics, 2015, 16, 14.	2.8	34
46	Mungbean yellow mosaic virus (MYMV): a threat to green gram (<i>Vigna radiata</i>) production in Asia. International Journal of Pest Management, 2014, 60, 314-324.	1.8	53
47	Assessment of <i>crRB1</i> Polymorphism Associated with Increased β -Carotene Content in Maize (<i>Zea mays</i> L.) Seeds. Food Biotechnology, 2014, 28, 41-49.	1.5	5
48	Marker assisted selection of low phytic acid trait in maize (<i>Zea mays</i> L.). Hereditas, 2014, 151, 20-27.	1.4	24
49	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.). Plant Breeding, 2014, 133, 566-578.	1.9	12
50	BrassicaTED - a public database for utilization of miniature transposable elements in Brassica species. BMC Research Notes, 2014, 7, 379.	1.4	18
51	Transcriptome analysis of salinity responsiveness in contrasting genotypes of finger millet (<i>Eleusine</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj 5	3.9	99
52	Transcriptome profiling and comparative analysis of <i>Panax ginseng</i> adventitious roots. Journal of Ginseng Research, 2014, 38, 278-288.	5.7	53
53	Molecular studies on mungbean (<i>Vigna radiata</i> (L.) Wilczek) and ricebean (<i>Vigna</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj 5 development of species-specific SCAR marker for ricebean. Archives of Phytopathology and Plant Protection, 2013, 46, 503-517.	1.3	21
54	Screening of mungbean (<i>Vigna radiata</i>) germplasm for resistance to Mungbean yellow mosaic virus using agroinoculation. Canadian Journal of Plant Pathology, 2013, 35, 424-430.	1.4	27

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55	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
56	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
57	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
58	MAGICdb – Mango Genetic stocks Identification and Characterisation database. <i>Bioinformatics</i> , 2013, 9, 838-839.	0.5	0
59	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
60	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
61	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
62	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
63	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
64	A web accessible resource for investigating cassava phenomics and genomics information: BIOGEN BASE. <i>Bioinformatics</i> , 2011, 6, 391-392.	0.5	4
65	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
66	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
67	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
68	Molecular Mapping of Non-Brittle Rachis Genes <i>btr1</i> and <i>btr2</i> using STS Markers in Barley. <i>Japan Agricultural Research Quarterly</i> , 2006, 40, 239-242.	0.4	3
69	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
70	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
71	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
72	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