Prakash Lakshmanan

List of Publications by Year
in descending order

58	2,467	236925 25	214800 47
papers	citations	h-index	g-index

61	61	61	2364
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The phytohormone crosstalk paradigm takes center stage in understanding how plants respond to abiotic stresses. Plant Cell Reports, 2013, 32, 945-957.	5.6	218
2	Sugarcane biotechnology: The challenges and opportunities. In Vitro Cellular and Developmental Biology - Plant, 2005, 41, 345-363.	2.1	181
3	Nitrate Paradigm Does Not Hold Up for Sugarcane. PLoS ONE, 2011, 6, e19045.	2.5	148
4	Sugarcane Water Stress Tolerance Mechanisms and Its Implications on Developing Biotechnology Solutions. Frontiers in Plant Science, 2017, 8, 1077.	3.6	131
5	Melatonin delays leaf senescence of Chinese flowering cabbage by suppressing ABFsâ€mediated abscisic acid biosynthesis and chlorophyll degradation. Journal of Pineal Research, 2019, 67, e12570.	7.4	128
6	Crosstalk between sugarcane and a plant-growth promoting Burkholderia species. Scientific Reports, 2016, 6, 37389.	3.3	92
7	A new species of <scp>B</scp>urkholderia isolated from sugarcane roots promotes plant growth. Microbial Biotechnology, 2014, 7, 142-154.	4.2	91
8	Developmental and hormonal regulation of direct shoot organogenesis and somatic embryogenesis in sugarcane (Saccharum spp. interspecific hybrids) leaf culture. Plant Cell Reports, 2006, 25, 1007-1015.	5.6	82
9	Banana fruit VQ motif-containing protein5 represses cold-responsive transcription factor MaWRKY26 involved in the regulation of JA biosynthetic genes. Scientific Reports, 2016, 6, 23632.	3.3	82
10	Diversity of nitrogen-fixing rhizobacteria associated with sugarcane: a comprehensive study of plant-microbe interactions for growth enhancement in Saccharum spp.. BMC Plant Biology, 2020, 20, 220.	3.6	80
11	Nitrogen fluxes at the root-soil interface show a mismatch of nitrogen fertilizer supply and sugarcane root uptake capacity. Scientific Reports, 2015, 5, 15727.	3.3	76
12	Melatonin delays leaf senescence of postharvest Chinese flowering cabbage through ROS homeostasis. Food Research International, 2020, 138, 109790.	6.2	75
13	Selection system and co-cultivation medium are important determinants of Agrobacterium-mediated transformation of sugarcane. Plant Cell Reports, 2010, 29, 173-183.	5.6	70
14	Exogenous melatonin maintains leaf quality of postharvest Chinese flowering cabbage by modulating respiratory metabolism and energy status. Postharvest Biology and Technology, 2021, 177, 111524.	6.0	65
15	Whole Genome Analysis of Sugarcane Root-Associated Endophyte Pseudomonas aeruginosa B18â€"A Plant Growth-Promoting Bacterium With Antagonistic Potential Against Sporisorium scitamineum. Frontiers in Microbiology, 2021, 12, 628376.	3.5	53
16	Ethylene-mediated improvement in sucrose accumulation in ripening sugarcane involves increased sink strength. BMC Plant Biology, 2019, 19, 285.	3.6	49
17	The Banana Transcriptional Repressor MaDEAR1 Negatively Regulates Cell Wall-Modifying Genes Involved in Fruit Ripening. Frontiers in Plant Science, 2016, 7, 1021.	3.6	47
18	ScGAI is a key regulator of culm development in sugarcane. Journal of Experimental Botany, 2018, 69, 3823-3837.	4.8	46

#	Article	IF	Citations
19	Development of a temporary immersion system (RITAÂ®) for mass production of sugarcane (Saccharum) Tj ETQq1 1 0.784314 rgBT /Ov	2.1	45
20	Genetic variation in transpiration efficiency and relationships between whole plant and leaf gas exchange measurements inSaccharumspp. and related germplasm. Journal of Experimental Botany, 2016, 67, 861-871.	4.8	44
21	Sugarcane genotypes differ in internal nitrogen use efficiency. Functional Plant Biology, 2007, 34, 1122.	2.1	40
22	Diazotrophic Bacteria Pantoea dispersa and Enterobacter asburiae Promote Sugarcane Growth by Inducing Nitrogen Uptake and Defense-Related Gene Expression. Frontiers in Microbiology, 2020, 11, 600417.	3.5	39
23	Microbial function in adjacent subtropical forest and agricultural soil. Soil Biology and Biochemistry, 2013, 57, 68-77.	8.8	38
24	High-Throughput Phenotyping of Indirect Traits for Early-Stage Selection in Sugarcane Breeding. Remote Sensing, 2019, 11, 2952.	4.0	34
25	Field performance of transgenic sugarcane produced using Agrobacterium and biolistics methods. Plant Biotechnology Journal, 2014, 12, 411-424.	8.3	32
26	Global direct nitrous oxide emissions from the bioenergy crop sugarcane (Saccharum spp.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td	8.0	30
27	Soluble inorganic and organic nitrogen in two Australian soils under sugarcane cultivation. Agriculture, Ecosystems and Environment, 2012, 155, 16-26.	5.3	29
28	Genotypic variation in transpiration efficiency due to differences in photosynthetic capacity among sugarcane-related clones. Journal of Experimental Botany, 2017, 68, 2377-2385.	4.8	28
29	Genome-Wide Analysis of the DREB Subfamily in Saccharum spontaneum Reveals Their Functional Divergence During Cold and Drought Stresses. Frontiers in Genetics, 2019, 10, 1326.	2.3	28
30	Insights into the Bacterial and Nitric Oxide-Induced Salt Tolerance in Sugarcane and Their Growth-Promoting Abilities. Microorganisms, 2021, 9, 2203.	3.6	23
31	Amino acids are a nitrogen source for sugarcane. Functional Plant Biology, 2012, 39, 503.	2.1	22
32	Global reactive nitrogen loss in orchard systems: A review. Science of the Total Environment, 2022, 821, 153462.	8.0	22
33	Somatic embryogenesis in sugarcaneâ€"An addendum to the invited review â€˜sugarcane biotechnology: The challenges and opportunities,â€™ in vitro cell. Dev. Biol. Plant 41(4):345â€“363; 2005. In Vitro Cellular and Developmental Biology - Plant, 2006, 42, 201-205.	2.1	21
34	MabZIP74 interacts with MaMAPK11-3 to regulate the transcription of MaACO1/4 during banana fruit ripening. Postharvest Biology and Technology, 2020, 169, 111293.	6.0	19
35	Involvement of BrNAC041 in ABA-GA antagonism in the leaf senescence of Chinese flowering cabbage. Postharvest Biology and Technology, 2020, 168, 111254.	6.0	17
36	Root-Derived Endophytic Diazotrophic Bacteria Pantoea cypripedii AF1 and Kosakonia arachidis EF1 Promote Nitrogen Assimilation and Growth in Sugarcane. Frontiers in Microbiology, 2021, 12, 774707.	3.5	17

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37	Mitigating magnesium deficiency for sustainable citrus production: A case study in Southwest China. Scientia Horticulturae, 2022, 295, 110832.	3.6	15
38	Enhanced Activity of Genes Associated With Photosynthesis, Phytohormone Metabolism and Cell Wall Synthesis Is Involved in Gibberellin-Mediated Sugarcane Internode Growth. Frontiers in Genetics, 2020, 11, 570094.	2.3	14
39	Transcriptome Profiling Provides Molecular Insights into Auxin-Induced Adventitious Root Formation in Sugarcane (Saccharum spp. Interspecific Hybrids) Microshoots. Plants, 2020, 9, 931.	3.5	14
40	A NAC transcription factor BrNAC087 is involved in gibberellin-delayed leaf senescence in Chinese flowering cabbage. Postharvest Biology and Technology, 2021, 181, 111673.	6.0	14
41	Control of sucrose accumulation in sugarcane (Saccharum spp. hybrids) involves miRNAâ€mediated regulation of genes and transcription factors associated with sugar metabolism. GCB Bioenergy, 2022, 14, 173-191.	5.6	14
42	Genotypic variation in intrinsic transpiration efficiency correlates with sugarcane yield under rainfed and irrigated field conditions. Physiologia Plantarum, 2021, 172, 976-989.	5.2	13
43	Magnesium application reduced heavy metal-associated health risks and improved nutritional quality of field-grown Chinese cabbage. Environmental Pollution, 2021, 289, 117881.	7.5	13
44	A quantitative genetics approach to nitrogen use efficiency in sugarcane. Functional Plant Biology, 2010, 37, 448.	2.1	12
45	A transcriptomic analysis of sugarcane response to Leifsonia xyli subsp. xyli infection. PLoS ONE, 2021, 16, e0245613.	2.5	10
46	Comparative analysis of protein and differential responses of defense-related gene and enzyme activity reveals the long-term molecular responses of sugarcane inoculated with Sporisorium scitamineum. Journal of Plant Interactions, 2021, 16, 12-29.	2.1	10
47	Role of the SPS Gene Families in the Regulation of Sucrose Accumulation in Sugarcane. Sugar Tech, 2017, 19, 117-124.	1.8	9
48	Identification of proteins and metabolic networks associated with sucrose accumulation in sugarcane (Saccharum spp. interspecific hybrids). Journal of Plant Interactions, 2021, 16, 166-178.	2.1	9
49	Global transcriptome changes of elongating internode of sugarcane in response to mepiquat chloride. BMC Genomics, 2021, 22, 79.	2.8	9
50	Quantitative Trait Loci Mapping and Development of KASP Marker Smut Screening Assay Using High-Density Genetic Map and Bulked Segregant RNA Sequencing in Sugarcane (Saccharum spp.). Frontiers in Plant Science, 2021, 12, 796189.	3.6	8
51	High-Throughput Sequencing-Based Analysis of Rhizosphere and Diazotrophic Bacterial Diversity Among Wild Progenitor and Closely Related Species of Sugarcane (Saccharum spp. Inter-Specific) Tj ETQq1 1 0.784314 rgBT /Overlock	3.6	8
52	Soil microbial responses to labile carbon input differ in adjacent sugarcane and forest soils. Soil Research, 2014, 52, 307.	1.1	5
53	Publicâ€“private partnership model for intensive maize production in China: A synergistic strategy for food security and ecosystem economic budget. Food and Energy Security, 2021, 10, e317.	4.3	5
54	Sugar Tech Special Issue: History of Sugarcane Breeding, Germplasm Development and Related Molecular Research. Sugar Tech, 2022, 24, 1-3.	1.8	5

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55	A transcriptional repressor BrDof2.4 regulates protease genes involved in postharvest leaf senescence in Chinese flowering cabbage. Postharvest Biology and Technology, 2021, 181, 111680.	6.0	4
56	Limited contribution of water availability in genotypeâ€byâ€environment interaction in sugarcane yield and yield components. Journal of Agronomy and Crop Science, 2020, 206, 665-678.	3.5	3
57	Transcriptome Profiling Reveals Genes Related to Sex Determination and Differentiation in Sugarcane Borer (Chilo sacchariphagus Bojer). Insects, 2022, 13, 500.	2.2	2
58	Increased Provision of Bioavailable Mg through Vegetables Could Significantly Reduce the Growing Health and Economic Burden Caused by Mg Malnutrition. Foods, 2021, 10, 2513.	4.3	0