Senthil Subramanian

List of Publications by Citations

47 papers	2,621 citations	23 h-index	51 g-index
53 ext. papers	3,180 ext. citations	5 avg, IF	4.92 L-index

#	Paper	IF	Citations
47	Modulation of abscisic acid signal transduction and biosynthesis by an Sm-like protein in Arabidopsis. *Developmental Cell*, **2001**, 1, 771-81	10.2	277
46	Novel and nodulation-regulated microRNAs in soybean roots. *BMC Genomics*, **2008**, 9, 160	4.5	248
45	Endogenous isoflavones are essential for the establishment of symbiosis between soybean and Bradyrhizobium japonicum. *Plant Journal*, **2006**, 48, 261-73	6.9	204
44	Flavones and flavonols play distinct critical roles during nodulation of Medicago truncatula by Sinorhizobium meliloti. *Plant Journal*, **2009**, 57, 171-83	6.9	190
43	Distinct, crucial roles of flavonoids during legume nodulation. *Trends in Plant Science*, **2007**, 12, 282-5	13.1	186
42	RNA interference of soybean isoflavone synthase genes leads to silencing in tissues distal to the transformation site and to enhanced susceptibility to Phytophthora sojae. *Plant Physiology*, **2005**, 137, 1345-53	6.6	184
41	Partial reconstruction of flavonoid and isoflavonoid biosynthesis in yeast using soybean type I and type II chalcone isomerases. *Plant Physiology*, **2005**, 137, 1375-88	6.6	175
40	Misexpression of miR482, miR1512, and miR1515 increases soybean nodulation. *Plant Physiology*, **2010**, 153, 1759-70	6.6	140
39	Ectopic expression of miR160 results in auxin hypersensitivity, cytokinin hyposensitivity, and inhibition of symbiotic nodule development in soybean. *Plant Physiology*, **2013**, 162, 2042-55	6.6	138
38	RNAi silencing of genes for elicitation or biosynthesis of 5-deoxyisoflavonoids suppresses race-specific resistance and hypersensitive cell death in Phytophthora sojae infected tissues. *Plant Physiology*, **2007**, 144, 728-40	6.6	90
37	microRNA160 dictates stage-specific auxin and cytokinin sensitivities and directs soybean nodule development. *Plant Journal*, **2015**, 84, 140-53	6.9	85
36	The promoters of two isoflavone synthase genes respond differentially to nodulation and defense signals in transgenic soybean roots. *Plant Molecular Biology*, **2004**, 54, 623-39	4.6	83
35	Flavone synthases from Medicago truncatula are flavanone-2-hydroxylases and are important for nodulation. *Plant Physiology*, **2007**, 144, 741-51	6.6	80
34	Overexpression of miR160 affects root growth and nitrogen-fixing nodule number in Medicago truncatula. *Functional Plant Biology*, **2013**, 40, 1208-1220	2.7	68
33	Genome organization and characteristics of soybean microRNAs. *BMC Genomics*, **2012**, 13, 169	4.5	63
32	A toolbox of genes, proteins, metabolites and promoters for improving drought tolerance in soybean includes the metabolite coumestrol and stomatal development genes. *BMC Genomics*, **2016**, 17, 102	4.5	61
31	Distinct changes in soybean xylem sap proteome in response to pathogenic and symbiotic microbe interactions. *BMC Plant Biology*, **2009**, 9, 119	5.3	46

30	Identification, nomenclature, and evolutionary relationships of mitogen-activated protein kinase (MAPK) genes in soybean. *Evolutionary Bioinformatics*, **2013**, 9, 363-86	1.9	39
29	miR393 and miR164 influence indeterminate but not determinate nodule development. *Plant Signaling and Behavior*, **2013**, 8, doi: 10.4161/psb.26753	2.5	33
28	Optimizing stem-loop qPCR assays through multiplexed cDNA synthesis of U6 and miRNAs. *Plant Signaling and Behavior*, **2013**, 8,	2.5	33
27	Soil microbial community structure and enzymatic activity responses to nitrogen management and landscape positions in switchgrass (Panicum virgatum L.). *GCB Bioenergy*, **2019**, 11, 836-851	5.6	26
26	Harnessing Soil Microbes to Improve Plant Phosphate Efficiency in Cropping Systems. *Agronomy*, **2019**, 9, 127	3.6	24
25	Root isoflavonoids and hairy root transformation influence key bacterial taxa in the soybean rhizosphere. *Environmental Microbiology*, **2017**, 19, 1391-1406	5.2	24
24	Spatio Temporal Influence of Isoflavonoids on Bacterial Diversity in the Soybean Rhizosphere. *Molecular Plant-Microbe Interactions*, **2015**, 28, 22-9	3.6	20
23	Quantitative 3D imaging of cell level auxin and cytokinin response ratios in soybean roots and nodules. *Plant, Cell and Environment*, **2018**, 41, 2080-2092	8.4	13
22	Isolation of Rhizosphere Bacterial Communities from Soil. *Bio-protocol*, **2015**, 5,	0.9	12
21	Hairpin priming is better suited than in vitro polyadenylation to generate cDNA for plant miRNA qPCR. *Molecular Plant*, **2013**, 6, 229-31	14.4	10
20	Harlequin (hlq) and short blue root (sbr), two Arabidopsis mutants that ectopically express an abscisic acid- and auxin-inducible transgenic carrot promoter and have pleiotropic effects on morphogenesis. *Plant Molecular Biology*, **2002**, 49, 93-105	4.6	9
19	Nodule-Enriched GRETCHEN HAGEN 3 Enzymes Have Distinct Substrate Specificities and Are Important for Proper Soybean Nodule Development. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	8
18	Intercropping kura clover with prairie cordgrass mitigates soil greenhouse gas fluxes. *Scientific Reports*, **2020**, 10, 7334	4.9	6
17	First Report of Sudden Death Syndrome of Soybean Caused by Fusarium virguliforme in South Dakota. *Plant Disease*, **2014**, 98, 1012	1.5	6
16	Single-Cell RNA Sequencing of Plant-Associated Bacterial Communities. *Frontiers in Microbiology*, **2019**, 10, 2452	5.7	6
15	GmZPR3d Interacts with GmHD-ZIP III Proteins and Regulates Soybean Root and Nodule Vascular Development. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	5
14	TOPOISOMERASE 6B is involved in chromatin remodelling associated with control of carbon partitioning into secondary metabolites and cell walls, and epidermal morphogenesis in Arabidopsis. *Journal of Experimental Botany*, **2014**, 65, 4217-39	7	4
13	Optimization and Application of a Quantitative Polymerase Chain Reaction Assay to Detect Diaporthe Species in Soybean Plant Tissue. *Plant Disease*, **2016**, 100, 1669-1676	1.5	4

12	Little RNAs Go a Long Way: Long-Distance Signaling by MicroRNAs. *Molecular Plant*, **2019**, 12, 18-20	14.4	4
11	Lateral Root and Nodule Transcriptomes of Soybean. *Data*, **2019**, 4, 64	2.3	3
10	Quantitative Amplification of Cleaved Ends (qACE) to assay miRNA-directed target cleavage. *F1000Research*,3, 240	3.6	3
9	Genome-Wide Identification of Drought Response Genes in Soybean Seedlings and Development of Biomarkers for Early Diagnoses. *Plant Molecular Biology Reporter*, **2018**, 36, 350-362	1.7	3
8	Gene regulatory networks associated with lateral root and nodule development in soybean. *In Silico Plants*, **2020**, 2,	3.2	2
7	Hairy Root Composite Plant Systems in Root-Microbe Interaction Research **2017**, 17-44		2
6	Integrative Analysis of Gene Expression and miRNAs Reveal Biological Pathways Associated with Bud Paradormancy and Endodormancy in Grapevine. *Plants*, **2021**, 10,	4.5	2
5	Biomass Production of Prairie Cordgrass (Spartina pectinata Link.) Using Urea and Kura Clover (Trifolium ambiguum Bieb.) as a Source of Nitrogen. *Bioenergy Research*, **2020**, 13, 1095-1107	3.1	1
4	microRNA Regulation of Symbiotic Nodule Development in Legumes. *Signaling and Communication in Plants*, **2012**, 177-195	1	1
3	Surface Properties and Adherence of Bradyrhizobium diazoefficiens to Glycine max Roots Are Altered When Grown in Soil Extracted Nutrients. *Nitrogen*, **2021**, 2, 461-473	1.8	0
2	A simple and sensitive SYBR Gold-based assay to quantify DNA-protein interactions. *Plant Molecular Biology*, **2019**, 101, 499-506	4.6	
1	Quantitative Amplification of Cleaved Ends (qACE) to assay miRNA-directed target cleavage. *F1000Research*,3, 240	3.6	