Manoj-Kumar Arthikala

List of Publications by Year
in descending order

34	1,131	430442 18	414034 32
papers	citations	h-index	g-index

34	34	34	1274
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Characterization, antibacterial, antioxidant, antidiabetic, anti-inflammatory and antityrosinase activity of green synthesized silver nanoparticles using Calophyllum tomentosum leaves extract. Results in Physics, 2018, 9, 400-408.	2.0	152
2	Pseudomonas fluorescens, a potential bacterial antagonist to control plant diseases. Journal of Plant Interactions, 2005, 1, 123-134.	1.0	110
3	A Phaseolus vulgaris NADPH Oxidase Gene is Required for Root Infection by Rhizobia. Plant and Cell Physiology, 2012, 53, 1751-1767.	1.5	105
4	RbohB, a Phaseolus vulgaris <scp>NADPH</scp> oxidase gene, enhances symbiosome number, bacteroid size, and nitrogen fixation in nodules and impairs mycorrhizal colonization. New Phytologist, 2014, 202, 886-900.	3.5	101
5	Protoplast isolation, transient transformation of leaf mesophyll protoplasts and improved Agrobacterium-mediated leaf disc infiltration of Phaseolus vulgaris: tools for rapid gene expression analysis. BMC Biotechnology, 2016, 16, 53.	1.7	74
6	Respiratory Burst Oxidase Homolog Gene A Is Crucial for Rhizobium Infection and Nodule Maturation and Function in Common Bean. Frontiers in Plant Science, 2017, 8, 2003.	1.7	63
7	Legume NADPH Oxidases Have Crucial Roles at Different Stages of Nodulation. International Journal of Molecular Sciences, 2016, 17, 680.	1.8	62
8	Overexpression of a Pea DNA Helicase (PDH45) in Peanut (Arachis hypogaea L.) Confers Improvement of Cellular Level Tolerance and Productivity Under Drought Stress. Molecular Biotechnology, 2014, 56, 111-125.	1.3	41
9	Towards crop improvement in bell pepper (Capsicum annuum L.): Transgenics (uid A::hpt II) by a tissue-culture-independent Agrobacterium-mediated in planta approach. Scientia Horticulturae, 2009, 119, 362-370.	1.7	37
10	Phaseolus vulgarisRbohBfunctions in lateral root development. Plant Signaling and Behavior, 2013, 8, e22694.	1.2	37
11	An Autophagy-Related Kinase Is Essential for the Symbiotic Relationship between Phaseolus vulgaris and Both Rhizobia and Arbuscular Mycorrhizal Fungi. Plant Cell, 2016, 28, 2326-2341.	3.1	37
12	PvRbohB negatively regulates Rhizophagus irregularis colonization in Phaseolus vulgaris. Plant and Cell Physiology, 2013, 54, 1391-1402.	1.5	34
13	Nitrate regulates rhizobial and mycorrhizal symbiosis in common bean (Phaseolus vulgaris L.). Journal of Integrative Plant Biology, 2014, 56, 281-298.	4.1	30
14	Cysteine-Rich Receptor-Like Kinase Gene Family Identification in the Phaseolus Genome and Comparative Analysis of Their Expression Profiles Specific to Mycorrhizal and Rhizobial Symbiosis. Genes, 2019, 10, 59.	1.0	30
15	A Legume TOR Protein Kinase Regulates Rhizobium Symbiosis and Is Essential for Infection and Nodule Development. Plant Physiology, 2016, 172, 2002-2020.	2.3	29
16	Differentially expressed genes in mycorrhized and nodulated roots of common bean are associated with defense, cell wall architecture, N metabolism, and P metabolism. PLoS ONE, 2017, 12, e0182328.	1.1	29
17	Co-overexpression of Brassica juncea NPR1 (BjNPR1) and Trigonella foenum-graecum defensin (Tfgd) in transgenic peanut provides comprehensive but varied protection against Aspergillus flavus and Cercospora arachidicola. Plant Cell Reports, 2016, 35, 1189-1203.	2.8	25
18	Agrobacterium-Mediated In Planta Transformation of Field Bean (Lablab purpureus L.) and Recovery of Stable Transgenic Plants Expressing the cry1AcF Gene. Plant Molecular Biology Reporter, 2012, 30, 67-78.	1.0	23

#	Article	IF	Citations
19	Plant-symbiont interactions: the functional role of expansins. Symbiosis, 2018, 74, 1-10.	1.2	17
20	Down-regulation of a Phaseolus vulgaris annexin impairs rhizobial infection and nodulation. Environmental and Experimental Botany, 2018, 153, 108-119.	2.0	15
21	In BPS1 Downregulated Roots, the BYPASS1 Signal Disrupts the Induction of Cortical Cell Divisions in Bean-Rhizobium Symbiosis. Genes, 2018, 9, 11.	1.0	13
22	Differential tetraspanin genes expression and subcellular localization during mutualistic interactions in Phaseolus vulgaris. PLoS ONE, 2019, 14, e0219765.	1.1	13
23	A rapid, novel and high-throughput identification of putative bell pepper transformants generated through in planta transformation approach. Scientia Horticulturae, 2011, 129, 898-903.	1.7	11
24	Utility of a tissue culture-independent Agrobacterium-mediated in planta transformation strategy in bell pepper to develop fungal disease resistant plants. Scientia Horticulturae, 2014, 170, 61-69.	1.7	10
25	Plant Promoter Analysis: Identification and Characterization of Root Nodule Specific Promoter in the Common Bean. Journal of Visualized Experiments, 2017, , .	0.2	8
26	RbohA coordinates lateral root emergence in common bean. Communicative and Integrative Biology, 2018, 11, 1-5.	0.6	8
27	Target of rapamycin, PvTOR, is a key regulator of arbuscule development during mycorrhizal symbiosis in Phaseolus. Scientific Reports, 2021, 11, 11319.	1.6	5
28	Effect of Rhizobium and arbuscular mycorrhizal fungi inoculation on electrolyte leakage in Phaseolus vulgaris roots overexpressing RbohB. Plant Signaling and Behavior, 2015, 10, e1011932.	1.2	3
29	Exploration of Autophagy Families in Legumes and Dissection of the ATG18 Family with a Special Focus on Phaseolus vulgaris. Plants, 2021, 10, 2619.	1.6	3
30			