Lam-Son P Tran

List of Publications by Citations

246 papers	17,514 citations	69 h-index	128 g-index
263 ext. papers	21,903 ext. citations	5.9 avg, IF	7.06 L-index

#	Paper	IF	Citations
246	Isolation and functional analysis of Arabidopsis stress-inducible NAC transcription factors that bind to a drought-responsive cis-element in the early responsive to dehydration stress 1 promoter. *Plant Cell*, **2004**, 16, 2481-98	11.6	1040
245	Functional analysis of a NAC-type transcription factor OsNAC6 involved in abiotic and biotic stress-responsive gene expression in rice. *Plant Journal*, **2007**, 51, 617-30	6.9	782
244	Response of plants to water stress. *Frontiers in Plant Science*, **2014**, 5, 86	6.2	740
243	A dehydration-induced NAC protein, RD26, is involved in a novel ABA-dependent stress-signaling pathway. *Plant Journal*, **2004**, 39, 863-76	6.9	693
242	Functional analysis of AHK1/ATHK1 and cytokinin receptor histidine kinases in response to abscisic acid, drought, and salt stress in Arabidopsis. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 20623-8	11.5	469
241	Analysis of cytokinin mutants and regulation of cytokinin metabolic genes reveals important regulatory roles of cytokinins in drought, salt and abscisic acid responses, and abscisic acid biosynthesis. *Plant Cell*, **2011**, 23, 2169-83	11.6	464
240	Hydrogen peroxide priming modulates abiotic oxidative stress tolerance: insights from ROS detoxification and scavenging. *Frontiers in Plant Science*, **2015**, 6, 420	6.2	389
239	Regulation of Photosynthesis during Abiotic Stress-Induced Photoinhibition. *Molecular Plant*, **2015**, 8, 1304-20	14.4	383
238	Cytokinins: metabolism and function in plant adaptation to environmental stresses. *Trends in Plant Science*, **2012**, 17, 172-9	13.1	377
237	Physiological and molecular approaches to improve drought resistance in soybean. *Plant and Cell Physiology*, **2009**, 50, 1260-76	4.9	371
236	Positive regulatory role of strigolactone in plant responses to drought and salt stress. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 851-6	11.5	370
235	Arabidopsis DREB2A-interacting proteins function as RING E3 ligases and negatively regulate plant drought stress-responsive gene expression. *Plant Cell*, **2008**, 20, 1693-707	11.6	361
234	Regulation and functional analysis of ZmDREB2A in response to drought and heat stresses in Zea mays L. *Plant Journal*, **2007**, 50, 54-69	6.9	353
233	Nitric Oxide Mitigates Salt Stress by Regulating Levels of Osmolytes and Antioxidant Enzymes in Chickpea. *Frontiers in Plant Science*, **2016**, 7, 347	6.2	304
232	Genome-wide survey and expression analysis of the plant-specific NAC transcription factor family in soybean during development and dehydration stress. *DNA Research*, **2011**, 18, 263-76	4.5	278
231	Sensing the environment: key roles of membrane-localized kinases in plant perception and response to abiotic stress. *Journal of Experimental Botany*, **2013**, 64, 445-58	7	274
230	A transposable element in a NAC gene is associated with drought tolerance in maize seedlings. *Nature Communications*, **2015**, 6, 8326	17.4	237

229	Benefits of brassinosteroid crosstalk. *Trends in Plant Science*, **2012**, 17, 594-605	13.1	232
228	ABA control of plant macroelement membrane transport systems in response to water deficit and high salinity. *New Phytologist*, **2014**, 202, 35-49	9.8	217
227	Progress studies of drought-responsive genes in rice. *Plant Cell Reports*, **2011**, 30, 297-310	5.1	209
226	Co-expression of the stress-inducible zinc finger homeodomain ZFHD1 and NAC transcription factors enhances expression of the ERD1 gene in Arabidopsis. *Plant Journal*, **2007**, 49, 46-63	6.9	204
225	Alleviation of cadmium toxicity in Brassica juncea L. (Czern. & Coss.) by calcium application involves various physiological and biochemical strategies. *PLoS ONE*, **2015**, 10, e0114571	3.7	175
224	Genome-wide analysis of ZmDREB genes and their association with natural variation in drought tolerance at seedling stage of Zea mays L. *PLoS Genetics*, **2013**, 9, e1003790	6	173
223	Hydrogen sulfide modulates cadmium-induced physiological and biochemical responses to alleviate cadmium toxicity in rice. *Scientific Reports*, **2015**, 5, 14078	4.9	164
222	Potential utilization of NAC transcription factors to enhance abiotic stress tolerance in plants by biotechnological approach. *GM Crops*, **2010**, 1, 32-9		156
221	Titanium Dioxide Nanoparticles Improve Growth and Enhance Tolerance of Broad Bean Plants under Saline Soil Conditions. *Land Degradation and Development*, **2018**, 29, 1065-1073	4.4	141
220	Arabidopsis AHP2, AHP3, and AHP5 histidine phosphotransfer proteins function as redundant negative regulators of drought stress response. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 4840-5	11.5	137
219	Systems biology-based approaches toward understanding drought tolerance in food crops. *Critical Reviews in Biotechnology*, **2013**, 33, 23-39	9.4	135
218	Characterization of rhizosphere fungi that mediate resistance in tomato against bacterial wilt disease. *Journal of Experimental Botany*, **2013**, 64, 3829-42	7	133
217	Differential gene expression in soybean leaf tissues at late developmental stages under drought stress revealed by genome-wide transcriptome analysis. *PLoS ONE*, **2012**, 7, e49522	3.7	133
216	Improvement of growth, fruit weight and early blight disease protection of tomato plants by rhizosphere bacteria is correlated with their beneficial traits and induced biosynthesis of antioxidant peroxidase and polyphenol oxidase. *Plant Science*, **2015**, 231, 62-73	5.3	130
215	Impacts of Priming with Silicon on the Growth and Tolerance of Maize Plants to Alkaline Stress. *Frontiers in Plant Science*, **2016**, 7, 243	6.2	130
214	Molecular characterization of stress-inducible GmNAC genes in soybean. *Molecular Genetics and Genomics*, **2009**, 281, 647-64	3.1	127
213	Chromium stress mitigation by polyamine-brassinosteroid application involves phytohormonal and physiological strategies in Raphanus sativus L. *PLoS ONE*, **2012**, 7, e33210	3.7	127
212	Role of Ethylene and Its Cross Talk with Other Signaling Molecules in Plant Responses to Heavy Metal Stress. *Plant Physiology*, **2015**, 169, 73-84	6.6	124

211	Methylglyoxal: An Emerging Signaling Molecule in Plant Abiotic Stress Responses and Tolerance. *Frontiers in Plant Science*, **2016**, 7, 1341	6.2	121
210	Arabidopsis type B cytokinin response regulators ARR1, ARR10, and ARR12 negatively regulate plant responses to drought. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 3090-5	11.5	118
209	Hydrogen Sulfide Regulates Salt Tolerance in Rice by Maintaining Na(+)/K(+) Balance, Mineral Homeostasis and Oxidative Metabolism Under Excessive Salt Stress. *Frontiers in Plant Science*, **2015**, 6, 1055	6.2	117
208	Interaction of brassinosteroids and polyamines enhances copper stress tolerance in raphanus sativus. *Journal of Experimental Botany*, **2012**, 63, 5659-75	7	117
207	Arabidopsis Cys2/His2 zinc-finger proteins AZF1 and AZF2 negatively regulate abscisic acid-repressive and auxin-inducible genes under abiotic stress conditions. *Plant Physiology*, **2011**, 157, 742-56	6.6	116
206	Transcriptome analyses of a salt-tolerant cytokinin-deficient mutant reveal differential regulation of salt stress response by cytokinin deficiency. *PLoS ONE*, **2012**, 7, e32124	3.7	112
205	Divergent structure of the ComQXPA quorum-sensing components: molecular basis of strain-specific communication mechanism in Bacillus subtilis. *Molecular Microbiology*, **2000**, 37, 1159-71	4.1	111
204	Different mechanisms of Trichoderma virens-mediated resistance in tomato against Fusarium wilt involve the jasmonic and salicylic acid pathways. *Molecular Plant Pathology*, **2018**, 19, 870-882	5.7	108
203	The auxin response factor transcription factor family in soybean: genome-wide identification and expression analyses during development and water stress. *DNA Research*, **2013**, 20, 511-24	4.5	101
202	Evaluation of candidate reference genes for normalization of quantitative RT-PCR in soybean tissues under various abiotic stress conditions. *PLoS ONE*, **2012**, 7, e46487	3.7	101
201	Plant gene networks in osmotic stress response: from genes to regulatory networks. *Methods in Enzymology*, **2007**, 428, 109-28	1.7	100
200	Mechanisms and strategies of plant defense against Botrytis cinerea. *Critical Reviews in Biotechnology*, **2017**, 37, 262-274	9.4	99
199	Physiological and biochemical mechanisms associated with trehalose-induced copper-stress tolerance in rice. *Scientific Reports*, **2015**, 5, 11433	4.9	99
198	The "STAY-GREEN" trait and phytohormone signaling networks in plants under heat stress. *Plant Cell Reports*, **2017**, 36, 1009-1025	5.1	97
197	Alleviation of the effect of salinity on growth and yield of strawberry by foliar spray of selenium-nanoparticles. *Environmental Pollution*, **2019**, 253, 246-258	9.3	94
196	Genome-wide expression profiling of soybean two-component system genes in soybean root and shoot tissues under dehydration stress. *DNA Research*, **2011**, 18, 17-29	4.5	94
195	Phosphorus homeostasis in legume nodules as an adaptive strategy to phosphorus deficiency. *Plant Science*, **2015**, 239, 36-43	5.3	93
194	Dissection of Trichoderma longibrachiatum-induced defense in onion (Allium cepa L.) against Fusarium oxysporum f. sp. cepa by target metabolite profiling. *Plant Science*, **2016**, 246, 128-138	5.3	91

193	Characterization of Bacillus subtilis gamma-glutamyltransferase and its involvement in the degradation of capsule poly-gamma-glutamate. *Microbiology (United Kingdom)*, **2004**, 150, 4115-23	2.9	89
192	The karrikin receptor KAI2 promotes drought resistance in Arabidopsis thaliana. *PLoS Genetics*, **2017**, 13, e1007076	6	87
191	Role of cytokinin responsive two-component system in ABA and osmotic stress signalings. *Plant Signaling and Behavior*, **2010**, 5, 148-50	2.5	87
190	Differential expression of isoflavone biosynthetic genes in soybean during water deficits. *Plant and Cell Physiology*, **2010**, 51, 936-48	4.9	86
189	Transcription Factors and Their Roles in Signal Transduction in Plants under Abiotic Stresses. *Current Genomics*, **2017**, 18, 483-497	2.6	86
188	Growth and nodulation of symbiotic Medicago truncatula at different levels of phosphorus availability. *Journal of Experimental Botany*, **2013**, 64, 2701-12	7	82
187	Identification and expression analysis of cytokinin metabolic genes in soybean under normal and drought conditions in relation to cytokinin levels. *PLoS ONE*, **2012**, 7, e42411	3.7	82
186	Phenotypical, physiological and biochemical analyses provide insight into selenium-induced phytotoxicity in rice plants. *Chemosphere*, **2017**, 178, 212-223	8.4	81
185	Regulatory roles of cytokinins and cytokinin signaling in response to potassium deficiency in Arabidopsis. *PLoS ONE*, **2012**, 7, e47797	3.7	77
184	SPINDLY, a negative regulator of gibberellic acid signaling, is involved in the plant abiotic stress response. *Plant Physiology*, **2011**, 157, 1900-13	6.6	77
183	Nitric oxide mediates hydrogen peroxide- and salicylic acid-induced salt tolerance in rice (Oryza sativa L.) seedlings. *Plant Growth Regulation*, **2015**, 77, 265-277	3.2	76
182	In silico analysis of transcription factor repertoire and prediction of stress responsive transcription factors in soybean. *DNA Research*, **2009**, 16, 353-69	4.5	76
181	Strigolactones in plant adaptation to abiotic stresses: An emerging avenue of plant research. *Plant, Cell and Environment*, **2018**, 41, 2227-2243	8.4	73
180	Potentials toward genetic engineering of drought-tolerant soybean. *Critical Reviews in Biotechnology*, **2012**, 32, 349-62	9.4	72
179	A new IS4 family insertion sequence, IS4Bsu1, responsible for genetic instability of poly-gamma-glutamic acid production in Bacillus subtilis. *Journal of Bacteriology*, **2000**, 182, 2387-92	3.5	69
178	The R2R3-MYB Transcription Factor MYB49 Regulates Cadmium Accumulation. *Plant Physiology*, **2019**, 180, 529-542	6.6	69
177	CRISPR/Cas9-mediated targeted mutagenesis of GmSPL9 genes alters plant architecture in soybean. *BMC Plant Biology*, **2019**, 19, 131	5.3	68
176	Functional genomics of soybean for improvement of productivity in adverse conditions. *Functional and Integrative Genomics*, **2010**, 10, 447-62	3.8	68

175	Methylglyoxal - a signaling molecule in plant abiotic stress responses. *Free Radical Biology and Medicine*, **2018**, 122, 96-109	7.8	66
174	LegumeTFDB: an integrative database of Glycine max, Lotus japonicus and Medicago truncatula transcription factors. *Bioinformatics*, **2010**, 26, 290-1	7.2	66
173	Salicylic Acid-Mediated Enhancement of Photosynthesis Attributes and Antioxidant Capacity Contributes to Yield Improvement of Maize Plants Under Salt Stress. *Journal of Plant Growth Regulation*, **2018**, 37, 1318-1330	4.7	66
172	Ganoderma applanatum-mediated green synthesis of silver nanoparticles: Structural characterization, and in vitro and in vivo biomedical and agrochemical properties. *Arabian Journal of Chemistry*, **2019**, 12, 1108-1120	5.9	65
171	Understanding plant responses to phosphorus starvation for improvement of plant tolerance to phosphorus deficiency by biotechnological approaches. *Critical Reviews in Biotechnology*, **2014**, 34, 16-30	9.4	63
170	Genome-wide analysis of two-component systems and prediction of stress-responsive two-component system members in soybean. *DNA Research*, **2010**, 17, 303-24	4.5	63
169	The Evolutionary History of R2R3-MYB Proteins Across 50 Eukaryotes: New Insights Into Subfamily Classification and Expansion. *Scientific Reports*, **2015**, 5, 11037	4.9	61
168	Asparagine: an amide of particular distinction in the regulation of symbiotic nitrogen fixation of legumes. *Critical Reviews in Biotechnology*, **2013**, 33, 309-27	9.4	58
167	The Yin-Yang of Cytokinin Homeostasis and Drought Acclimation/Adaptation. *Trends in Plant Science*, **2016**, 21, 548-550	13.1	56
166	Impact of salt-induced toxicity on growth and yield-potential of local wheat cultivars: oxidative stress and ion toxicity are among the major determinants of salt-tolerant capacity. *Chemosphere*, **2017**, 187, 385-394	8.4	56
165	The CRISPR/Cas9 system and its applications in crop genome editing. *Critical Reviews in Biotechnology*, **2019**, 39, 321-336	9.4	56
164	Plant protein phosphatases 2C: from genomic diversity to functional multiplicity and importance in stress management. *Critical Reviews in Biotechnology*, **2016**, 36, 1023-1035	9.4	55
163	Legume genetic resources and transcriptome dynamics under abiotic stress conditions. *Plant, Cell and Environment*, **2018**, 41, 1972-1983	8.4	52
162	Genome editing using CRISPR/Cas9-targeted mutagenesis: An opportunity for yield improvements of crop plants grown under environmental stresses. *Plant Physiology and Biochemistry*, **2018**, 131, 31-36	5.4	51
161	Adaptation of the symbiotic Mesorhizobium-chickpea relationship to phosphate deficiency relies on reprogramming of whole-plant metabolism. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E4610-9	11.5	49
160	Salt stress tolerance mechanisms and potential applications of legumes for sustainable reclamation of salt-degraded soils. *Land Degradation and Development*, **2018**, 29, 3812-3822	4.4	49
159	NOmicsNand Plant Responses to. *Frontiers in Plant Science*, **2016**, 7, 1658	6.2	49
158	Ethanol Enhances High-Salinity Stress Tolerance by Detoxifying Reactive Oxygen Species in and Rice. *Frontiers in Plant Science*, **2017**, 8, 1001	6.2	47

157	Contribution of genomics to gene discovery in plant abiotic stress responses. *Molecular Plant*, **2012**, 5, 1176-8	14.4	47
156	Exogenous Glutathione Modulates Salinity Tolerance of Soybean [Glycine max (L.) Merrill] at Reproductive Stage. *Journal of Plant Growth Regulation*, **2017**, 36, 877-888	4.7	46
155	Roles of Gibberellins and Abscisic Acid in Regulating Germination of Suaeda salsa Dimorphic Seeds Under Salt Stress. *Frontiers in Plant Science*, **2015**, 6, 1235	6.2	45
154	Genetic Engineering: A Promising Tool to Engender Physiological, Biochemical, and Molecular Stress Resilience in Green Microalgae. *Frontiers in Plant Science*, **2016**, 7, 400	6.2	45
153	Roles and regulation of the glutamate racemase isogenes, racE and yrpC, in Bacillus subtilis. *Microbiology (United Kingdom)*, **2004**, 150, 2911-2920	2.9	44
152	Extracts from Yeast and Carrot Roots Enhance Maize Performance under Seawater-Induced Salt Stress by Altering Physio-Biochemical Characteristics of Stressed Plants. *Journal of Plant Growth Regulation*, **2019**, 38, 966-979	4.7	44
151	Genome-wide identification and expression analysis of the CaNAC family members in chickpea during development, dehydration and ABA treatments. *PLoS ONE*, **2014**, 9, e114107	3.7	43
150	Phytosterols: perspectives in human nutrition and clinical therapy. *Current Medicinal Chemistry*, **2011**, 18, 4557-67	4.3	43
149	The soybean transcription factor GmNAC085 enhances drought tolerance in Arabidopsis. *Environmental and Experimental Botany*, **2018**, 151, 12-20	5.9	42
148	Multifaceted roles of aquaporins as molecular conduits in plant responses to abiotic stresses. *Critical Reviews in Biotechnology*, **2016**, 36, 389-98	9.4	42
147	Identification and prediction of abiotic stress responsive transcription factors involved in abiotic stress signaling in soybean. *Plant Signaling and Behavior*, **2010**, 5, 255-7	2.5	42
146	The use of metabolomic quantitative trait locus mapping and osmotic adjustment traits for the improvement of crop yields under environmental stresses. *Seminars in Cell and Developmental Biology*, **2018**, 83, 86-94	7.5	41
145	Sargassum muticum and Jania rubens regulate amino acid metabolism to improve growth and alleviate salinity in chickpea. *Scientific Reports*, **2017**, 7, 10537	4.9	40
144	In silico analysis of transcription factor repertoires and prediction of stress-responsive transcription factors from six major gramineae plants. *DNA Research*, **2011**, 18, 321-32	4.5	38
143	Adaptive Mechanisms of Soybean Grown on Salt-Affected Soils. *Land Degradation and Development*, **2018**, 29, 1054-1064	4.4	37
142	Overexpression of AtDREB1D transcription factor improves drought tolerance in soybean. *Molecular Biology Reports*, **2014**, 41, 7995-8008	2.8	37
141	Exogenous Trehalose Treatment Enhances the Activities of Defense-Related Enzymes and Triggers Resistance against Downy Mildew Disease of Pearl Millet. *Frontiers in Plant Science*, **2016**, 7, 1593	6.2	37
140	Interactive Effects of Salicylic Acid and Nitric Oxide in Enhancing Rice Tolerance to Cadmium Stress. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	37

139	Heat stress effects on source-sink relationships and metabolome dynamics in wheat. *Journal of Experimental Botany*, **2020**, 71, 543-554	7	36
138	Grass and maize vegetation systems restore saline-sodic soils in the Songnen Plain of northeast China. *Land Degradation and Development*, **2018**, 29, 1107-1119	4.4	35
137	Functional analysis of water stress-responsive soybean GmNAC003 and GmNAC004 transcription factors in lateral root development in arabidopsis. *PLoS ONE*, **2014**, 9, e84886	3.7	34
136	Mechanisms of physiological adjustment of N2 fixation in Cicer arietinum L. (chickpea) during early stages of water deficit: single or multi-factor controls. *Plant Journal*, **2014**, 79, 964-80	6.9	33
135	The Contribution of Buckwheat Genetic Resources to Health and Dietary Diversity. *Current Genomics*, **2016**, 17, 193-206	2.6	33
134	Salicylic acid antagonizes selenium phytotoxicity in rice: selenium homeostasis, oxidative stress metabolism and methylglyoxal detoxification. *Journal of Hazardous Materials*, **2020**, 394, 122572	12.8	32
133	Differential expression analysis of a subset of drought-responsive GmNAC genes in two soybean cultivars differing in drought tolerance. *International Journal of Molecular Sciences*, **2013**, 14, 23828-41	6.3	31
132	Isolation and evaluation of proteolytic actinomycete isolates as novel inducers of pearl millet downy mildew disease protection. *Scientific Reports*, **2016**, 6, 30789	4.9	30
131	Expression of the pgsB encoding the poly-gamma-DL-glutamate synthetase of Bacillus subtilis (natto). *Bioscience, Biotechnology and Biochemistry*, **2009**, 73, 1149-55	2.1	30
130	Overexpression of GmNAC085 enhances drought tolerance in Arabidopsis by regulating glutathione biosynthesis, redox balance and glutathione-dependent detoxification of reactive oxygen species and methylglyoxal. *Environmental and Experimental Botany*, **2019**, 161, 242-254	5.9	30
129	Comparative analysis of root transcriptomes from two contrasting drought-responsive Williams 82 and DT2008 soybean cultivars under normal and dehydration conditions. *Frontiers in Plant Science*, **2015**, 6, 551	6.2	29
128	Approaches for enhancement of N fixation efficiency of chickpea (Cicer arietinum L.) under limiting nitrogen conditions. *Plant Biotechnology Journal*, **2014**, 12, 387-97	11.6	29
127	Enhancement of Plant Productivity in the Post-Genomics Era. *Current Genomics*, **2016**, 17, 295-6	2.6	29
126	The R2R3-MYB transcription factor AtMYB49 modulates salt tolerance in Arabidopsis by modulating the cuticle formation and antioxidant defence. *Plant, Cell and Environment*, **2020**, 43, 1925-1943	8.4	28
125	Acetic acid: a cost-effective agent for mitigation of seawater-induced salt toxicity in mung bean. *Scientific Reports*, **2019**, 9, 15186	4.9	28
124	Higher plant cytochrome b5 polypeptides modulate fatty acid desaturation. *PLoS ONE*, **2012**, 7, e31370	3.7	28
123	Comparative transcriptome analysis of nodules of two Mesorhizobium-chickpea associations with differential symbiotic efficiency under phosphate deficiency. *Plant Journal*, **2017**, 91, 911-926	6.9	26
122	DT2008: a promising new genetic resource for improved drought tolerance in soybean when solely dependent on symbiotic N2 fixation. *BioMed Research International*, **2015**, 2015, 687213	3	26

121	Comparative Analysis of the Symbiotic Efficiency of Medicago truncatula and Medicago sativa under Phosphorus Deficiency. *International Journal of Molecular Sciences*, **2013**, 14, 5198-213	6.3	26
120	Enhancing Salt Tolerance of Plants: From Metabolic Reprogramming to Exogenous Chemical Treatments and Molecular Approaches. *Cells*, **2020**, 9,	7.9	25
119	Metabolomics and Transcriptomics in Legumes Under Phosphate Deficiency in Relation to Nitrogen Fixation by Root Nodules. *Frontiers in Plant Science*, **2018**, 9, 922	6.2	24
118	Evaluation of drought tolerance of the Vietnamese soybean cultivars provides potential resources for soybean production and genetic engineering. *BioMed Research International*, **2014**, 2014, 809736	3	24
117	Altering Plant Architecture to Improve Performance and Resistance. *Trends in Plant Science*, **2020**, 25, 1154-1170	13.1	23
116	Insight into salt tolerance mechanisms of the halophyte Achras sapota: an important fruit tree for agriculture in coastal areas. *Protoplasma*, **2019**, 256, 181-191	3.4	23
115	TreeTFDB: an integrative database of the transcription factors from six economically important tree crops for functional predictions and comparative and functional genomics. *DNA Research*, **2013** , 20, 151-62	4.5	23
114	Diversity of plant methionine sulfoxide reductases B and evolution of a form specific for free methionine sulfoxide. *PLoS ONE*, **2013**, 8, e65637	3.7	23
113	Molecular characterization and functional analysis of Glycine max sterol methyl transferase 2 genes involved in plant membrane sterol biosynthesis. *Plant Molecular Biology*, **2010**, 74, 503-18	4.6	23
112	Insights into acetate-mediated copper homeostasis and antioxidant defense in lentil under excessive copper stress. *Environmental Pollution*, **2020**, 258, 113544	9.3	23
111	Comparative analysis of the root transcriptomes of cultivated and wild rice varieties in response to Magnaporthe oryzae infection revealed both common and species-specific pathogen responses. *Rice*, **2018**, 11, 26	5.8	22
110	Comparative Analysis of the Combined Effects of Different Water and Phosphate Levels on Growth and Biological Nitrogen Fixation of Nine Cowpea Varieties. *Frontiers in Plant Science*, **2017**, 8, 2111	6.2	22
109	Current understanding of pattern-triggered immunity and hormone-mediated defense in rice (Oryza sativa) in response to Magnaporthe oryzae infection. *Seminars in Cell and Developmental Biology*, **2018**, 83, 95-105	7.5	22
108	Isolation and characterization of Cepa2, a natural alliospiroside A, from shallot (Allium cepa L. Aggregatum group) with anticancer activity. *Plant Physiology and Biochemistry*, **2017**, 116, 167-173	5.4	21
107	N-feedback regulation is synchronized with nodule carbon alteration in Medicago truncatula under excessive nitrate or low phosphorus conditions. *Journal of Plant Physiology*, **2014**, 171, 407-10	3.6	21
106	Comparative study of the mycorrhizal root transcriptomes of wild and cultivated rice in response to the pathogen Magnaporthe oryzae. *Rice*, **2019**, 12, 35	5.8	20
105	Phytohormones regulate convergent and divergent responses between individual and combined drought and pathogen infection. *Critical Reviews in Biotechnology*, **2020**, 40, 320-340	9.4	20
104	Physiological and biochemical modifications by postharvest treatment with sodium nitroprusside extend vase life of cut flowers of two gerbera cultivars. *Postharvest Biology and Technology*, **2018**, 137, 1-8	6.2	20

103	Are karrikins involved in plant abiotic stress responses?. *Trends in Plant Science*, **2015**, 20, 535-8	13.1	19
102	Research Advances of Beneficial Microbiota Associated with Crop Plants. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	19
101	Comparative functional analyses of DWARF14 and KARRIKIN INSENSITIVE2 in drought adaptation of Arabidopsis thaliana. *Plant Journal*, **2020**, 103, 111-127	6.9	19
100	Cellular and Subcellular Phosphate Transport Machinery in Plants. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	19
99	Overexpression of GmMYB14 improves high-density yield and drought tolerance of soybean through regulating plant architecture mediated by the brassinosteroid pathway. *Plant Biotechnology Journal*, **2021**, 19, 702-716	11.6	18
98	Negative Roles of Strigolactone-Related SMXL6, 7 and 8 Proteins in Drought Resistance in. *Biomolecules*, **2020**, 10,	5.9	17
97	Do Cytokinins and Strigolactones Crosstalk during Drought Adaptation?. *Trends in Plant Science*, **2019**, 24, 669-672	13.1	17
96	Isolation of a beta-galactosidase-encoding gene from Bacillus licheniformis: purification and characterization of the recombinant enzyme expressed in Escherichia coli. *Current Microbiology*, **1998**, 37, 39-43	2.4	17
95	OaMAX2 of Orobanche aegyptiaca and Arabidopsis AtMAX2 share conserved functions in both development and drought responses. *Biochemical and Biophysical Research Communications*, **2016**, 478, 521-6	3.4	16
94	Differential expression analysis of a subset of GmNAC genes in shoots of two contrasting drought-responsive soybean cultivars DT51 and MTD720 under normal and drought conditions. *Molecular Biology Reports*, **2014**, 41, 5563-9	2.8	16
93	Acetic acid improves drought acclimation in soybean: an integrative response of photosynthesis, osmoregulation, mineral uptake and antioxidant defense. *Physiologia Plantarum*, **2021**, 172, 334-350	4.6	16
92	Computational Modeling of the Staphylococcal Enterotoxins and Their Interaction with Natural Antitoxin Compounds. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	15
91	Impact of domestication on the evolution of rhizomicrobiome of rice in response to the presence of Magnaporthe oryzae. *Plant Physiology and Biochemistry*, **2018**, 132, 156-165	5.4	15
90	Characterization of the newly developed soybean cultivar DT2008 in relation to the model variety W82 reveals a new genetic resource for comparative and functional genomics for improved drought tolerance. *BioMed Research International*, **2013**, 2013, 759657	3	15
89	Community structures of the rhizomicrobiomes of cultivated and wild soybeans in their continuous cropping. *Microbiological Research*, **2020**, 232, 126390	5.3	15
88	Silicon in mitigation of abiotic stress-induced oxidative damage in plants. *Critical Reviews in Biotechnology*, **2021**, 41, 918-934	9.4	15
87	Heat Sensing and Lipid Reprograming as a Signaling Switch for Heat Stress Responses in Wheat. *Plant and Cell Physiology*, **2020**, 61, 1399-1407	4.9	14
86	Correlation between differential drought tolerability of two contrasting drought-responsive chickpea cultivars and differential expression of a subset of CaNAC genes under normal and dehydration conditions. *Frontiers in Plant Science*, **2015**, 6, 449	6.2	14

85	A platform for functional prediction and comparative analyses of transcription factors of legumes and beyond. *Plant Signaling and Behavior*, **2010**, 5, 550-2	2.5	14
84	Enhancement of downy mildew disease resistance in pearl millet by the G_app7 bioactive compound produced by Ganoderma applanatum. *Plant Physiology and Biochemistry*, **2016**, 105, 109-117	5.4	14
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