Rui Shi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1950093/publications.pdf

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		236925	315739
40	3,088	25	38
papers	citations	h-index	g-index

43	43	43	3896
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Homoeologous chromosome exchange explains the creation of a QTL affecting soilâ€borne pathogen resistance in tobacco. Plant Biotechnology Journal, 2022, 20, 47-58.	8.3	12
2	RNAseq Reveals Differential Gene Expression Contributing to Phytophthora nicotianae Adaptation to Partial Resistance in Tobacco. Agronomy, 2021, 11, 656.	3.0	1
3	Enzyme Complexes of Ptr4CL and PtrHCT Modulate Co-enzyme A Ligation of Hydroxycinnamic Acids for Monolignol Biosynthesis in Populus trichocarpa. Frontiers in Plant Science, 2021, 12, 727932.	3.6	5
4	Involvement of CesA4, CesA7-A/B and CesA8-A/B in secondary wall formation in Populus trichocarpa wood. Tree Physiology, 2020, 40, 73-89.	3.1	30
5	Transcriptome-Based Analysis of Tomato Genotypes Resistant to Bacterial Spot (Xanthomonas) Tj ETQq1 1 0.784314 rgBT /Overlock	4.1	8
6	Monolignol Benzoates Incorporate into the Lignin of Transgenic Populus trichocarpa Depleted in C3H and C4H. ACS Sustainable Chemistry and Engineering, 2020, 8, 3644-3654.	6.7	39
7	Identification and validation of SNP markers associated with Wz-mediated Phytophthora nicotianae resistance in Nicotiana tabacum L.. Molecular Breeding, 2019, 39, 1.	2.1	4
8	Genetic Control of Facultative Parthenocarpy in Nicotiana tabacum L.. Journal of Heredity, 2019, 110, 610-617.	2.4	0
9	Hierarchical Transcription Factor and Chromatin Binding Network for Wood Formation in Populus trichocarpa. Plant Cell, 2019, 31, 602-626.	6.6	109
10	The AREB1 Transcription Factor Influences Histone Acetylation to Regulate Drought Responses and Tolerance in Populus trichocarpa. Plant Cell, 2019, 31, 663-686.	6.6	139
11	Improving wood properties for wood utilization through multi-omics integration in lignin biosynthesis. Nature Communications, 2018, 9, 1579.	12.8	162
12	Filter paper-based spin column method for cost-efficient DNA or RNA purification. PLoS ONE, 2018, 13, e0203011.	2.5	34
13	Tissue and cell-type co-expression networks of transcription factors and wood component genes in Populus trichocarpa. Planta, 2017, 245, 927-938.	3.2	74
14	Reciprocal cross-regulation of VND and SND multigene TF families for wood formation in Populus trichocarpa. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9722-E9729.	7.1	62
15	A novel plant DNA extraction method using filter paper-based 96-well spin plate. Planta, 2017, 246, 579-584.	3.2	14
16	A cell wall-bound anionic peroxidase, PtrPO21, is involved in lignin polymerization in Populus trichocarpa. Tree Genetics and Genomes, 2016, 12, 1.	1.6	24
17	Phosphorylation is an on/off switch for 5-hydroxyconiferaldehyde O -methyltransferase activity in poplar monolignol biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8481-8486.	7.1	60
18	Growth under field conditions affects lignin content and productivity in transgenic Populus trichocarpa with altered lignin biosynthesis. Biomass and Bioenergy, 2014, 68, 228-239.	5.7	26

#	Article	IF	Citations
19	A simple improved-throughput xylem protoplast system for studying wood formation. Nature Protocols, 2014, 9, 2194-2205.	12.0	81
20	Systems Biology of Lignin Biosynthesis in Populus trichocarpa: Heteromeric 4-Coumaric Acid:Coenzyme A Ligase Protein Complex Formation, Regulation, and Numerical Modeling. Plant Cell, 2014, 26, 876-893.	6.6	75
21	A robust chromatin immunoprecipitation protocol for studying transcription factorâ€“DNA interactions and histone modifications in wood-forming tissue. Nature Protocols, 2014, 9, 2180-2193.	12.0	63
22	Vibrational sum-frequency-generation (SFG) spectroscopy study of the structural assembly of cellulose microfibrils in reaction woods. Cellulose, 2014, 21, 2219-2231.	4.9	30
23	Complete Proteomic-Based Enzyme Reaction and Inhibition Kinetics Reveal How Monolignol Biosynthetic Enzyme Families Affect Metabolic Flux and Lignin in Populus trichocarpa. Plant Cell, 2014, 26, 894-914.	6.6	136
24	Regulation of phenylalanine ammonia-lyase (PAL) gene family in wood forming tissue of Populus trichocarpa. Planta, 2013, 238, 487-497.	3.2	53
25	The elucidation of the lignin structure effect on the cellulase-mediated saccharification by genetic engineering poplars (Populus nigra L.ÂÃ—ÂPopulus maximowiczii A.). Biomass and Bioenergy, 2013, 58, 52-57.	5.7	35
26	Monolignol Pathway 4-Coumaric Acid:Coenzyme A Ligases in Populus. trichocarpa: Novel Specificity, Metabolic Regulation, and Simulation of Coenzyme A Ligation Fluxes Â. Plant Physiology, 2013, 161, 1501-1516.	4.8	54
27	Poly(T) Adaptor RT-PCR. Methods in Molecular Biology, 2012, 822, 53-66.	0.9	35
28	A standard reaction condition and a single HPLC separation system are sufficient for estimation of monolignol biosynthetic pathway enzyme activities. Planta, 2012, 236, 879-885.	3.2	20
29	MicroRNAs in trees. Plant Molecular Biology, 2012, 80, 37-53.	3.9	23
30	Comprehensive Quantification of Monolignol-Pathway Enzymes in Populus trichocarpa by Protein Cleavage Isotope Dilution Mass Spectrometry. Journal of Proteome Research, 2012, 11, 3390-3404.	3.7	42
31	Computational Prediction of Plant miRNA Targets. Methods in Molecular Biology, 2011, 744, 175-186.	0.9	13
32	Specific down-regulation of PAL genes by artificial microRNAs in Populus trichocarpa. Planta, 2010, 232, 1281-1288.	3.2	49
33	Towards a Systems Approach for Lignin Biosynthesis in Populus trichocarpa: Transcript Abundance and Specificity of the Monolignol Biosynthetic Genes. Plant and Cell Physiology, 2010, 51, 144-163.	3.1	280
34	Isolation of expressed sequences from a specific chromosome ofThinopyrum intermediuminfected by BYDV. Genome, 2009, 52, 68-76.	2.0	11
35	Rapid EST isolation from chromosome 1R of rye. BMC Plant Biology, 2008, 8, 28.	3.6	14
36	Novel and Mechanical Stressâ€“Responsive MicroRNAs in Populus trichocarpa That Are Absent from Arabidopsis. Plant Cell, 2005, 17, 2186-2203.	6.6	552

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37	Facile means for quantifying microRNA expression by real-time PCR. BioTechniques, 2005, 39, 519-525.	1.8	663
38	Screening and analysis of differentially expressed genes from an alien addition line of wheat Thinopyrum intermedium induced by barley yellow dwarf virus infection. Genome, 2004, 47, 1114-1121.	2.0	11
39	RNA silencing in plants by the expression of siRNA duplexes. Nucleic Acids Research, 2004, 32, e171-e171.	14.5	35
40	Validation of artificial microRNA expression by poly(A) tailing-based RT-PCR. Protocol Exchange, 0, , .	0.3	6