

# Rui Shi

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

3,088  
citations

236925

25  
h-index

315739

38  
g-index

43  
all docs

43  
docs citations

43  
times ranked

3896  
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile means for quantifying microRNA expression by real-time PCR. <i>BioTechniques</i> , 2005, 39, 519-525.	1.8	663
2	Novel and Mechanical Stress-Responsive MicroRNAs in <i>Populus trichocarpa</i> That Are Absent from <i>Arabidopsis</i> . <i>Plant Cell</i> , 2005, 17, 2186-2203.	6.6	552
3	Towards a Systems Approach for Lignin Biosynthesis in <i>Populus trichocarpa</i> : Transcript Abundance and Specificity of the Monolignol Biosynthetic Genes. <i>Plant and Cell Physiology</i> , 2010, 51, 144-163.	3.1	280
4	Improving wood properties for wood utilization through multi-omics integration in lignin biosynthesis. <i>Nature Communications</i> , 2018, 9, 1579.	12.8	162
5	The AREB1 Transcription Factor Influences Histone Acetylation to Regulate Drought Responses and Tolerance in <i>Populus trichocarpa</i> . <i>Plant Cell</i> , 2019, 31, 663-686.	6.6	139
6	Complete Proteomic-Based Enzyme Reaction and Inhibition Kinetics Reveal How Monolignol Biosynthetic Enzyme Families Affect Metabolic Flux and Lignin in <i>Populus trichocarpa</i> . <i>Plant Cell</i> , 2014, 26, 894-914.	6.6	136
7	Hierarchical Transcription Factor and Chromatin Binding Network for Wood Formation in <i>Populus trichocarpa</i> . <i>Plant Cell</i> , 2019, 31, 602-626.	6.6	109
8	A simple improved-throughput xylem protoplast system for studying wood formation. <i>Nature Protocols</i> , 2014, 9, 2194-2205.	12.0	81
9	Systems Biology of Lignin Biosynthesis in <i>Populus trichocarpa</i> : Heteromeric 4-Coumaric Acid:Coenzyme A Ligase Protein Complex Formation, Regulation, and Numerical Modeling. <i>Plant Cell</i> , 2014, 26, 876-893.	6.6	75
10	Tissue and cell-type co-expression networks of transcription factors and wood component genes in <i>Populus trichocarpa</i> . <i>Planta</i> , 2017, 245, 927-938.	3.2	74
11	A robust chromatin immunoprecipitation protocol for studying transcription factor-DNA interactions and histone modifications in wood-forming tissue. <i>Nature Protocols</i> , 2014, 9, 2180-2193.	12.0	63
12	Reciprocal cross-regulation of VND and SND multigene TF families for wood formation in <i>Populus trichocarpa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9722-E9729.	7.1	62
13	Phosphorylation is an on/off switch for 5-hydroxyconiferaldehyde O-methyltransferase activity in poplar monolignol biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8481-8486.	7.1	60
14	Monolignol Pathway 4-Coumaric Acid:Coenzyme A Ligases in <i>Populus trichocarpa</i> : Novel Specificity, Metabolic Regulation, and Simulation of Coenzyme A Ligation Fluxes. <i>Plant Physiology</i> , 2013, 161, 1501-1516.	4.8	54
15	Regulation of phenylalanine ammonia-lyase (PAL) gene family in wood forming tissue of <i>Populus trichocarpa</i> . <i>Planta</i> , 2013, 238, 487-497.	3.2	53
16	Specific down-regulation of PAL genes by artificial microRNAs in <i>Populus trichocarpa</i> . <i>Planta</i> , 2010, 232, 1281-1288.	3.2	49
17	Comprehensive Quantification of Monolignol-Pathway Enzymes in <i>Populus trichocarpa</i> by Protein Cleavage Isotope Dilution Mass Spectrometry. <i>Journal of Proteome Research</i> , 2012, 11, 3390-3404.	3.7	42
18	Monolignol Benzoates Incorporate into the Lignin of Transgenic <i>Populus trichocarpa</i> Depleted in C3H and C4H. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3644-3654.	6.7	39

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19	RNA silencing in plants by the expression of siRNA duplexes. <i>Nucleic Acids Research</i> , 2004, 32, e171-e171.	14.5	35
20	Poly(T) Adaptor RT-PCR. <i>Methods in Molecular Biology</i> , 2012, 822, 53-66.	0.9	35
21	The elucidation of the lignin structure effect on the cellulase-mediated saccharification by genetic engineering poplars ( <i>Populus nigra</i> L. — <i>Populus maximowiczii</i> A.). <i>Biomass and Bioenergy</i> , 2013, 58, 52-57.	5.7	35
22	Filter paper-based spin column method for cost-efficient DNA or RNA purification. <i>PLoS ONE</i> , 2018, 13, e0203011.	2.5	34
23	Vibrational sum-frequency-generation (SFG) spectroscopy study of the structural assembly of cellulose microfibrils in reaction woods. <i>Cellulose</i> , 2014, 21, 2219-2231.	4.9	30
24	Involvement of Cesa4, Cesa7-A/B and Cesa8-A/B in secondary wall formation in <i>Populus trichocarpa</i> wood. <i>Tree Physiology</i> , 2020, 40, 73-89.	3.1	30
25	Growth under field conditions affects lignin content and productivity in transgenic <i>Populus trichocarpa</i> with altered lignin biosynthesis. <i>Biomass and Bioenergy</i> , 2014, 68, 228-239.	5.7	26
26	A cell wall-bound anionic peroxidase, PtrPO21, is involved in lignin polymerization in <i>Populus trichocarpa</i> . <i>Tree Genetics and Genomes</i> , 2016, 12, 1.	1.6	24
27	MicroRNAs in trees. <i>Plant Molecular Biology</i> , 2012, 80, 37-53.	3.9	23
28	A standard reaction condition and a single HPLC separation system are sufficient for estimation of monolignol biosynthetic pathway enzyme activities. <i>Planta</i> , 2012, 236, 879-885.	3.2	20
29	Rapid EST isolation from chromosome 1R of rye. <i>BMC Plant Biology</i> , 2008, 8, 28.	3.6	14
30	A novel plant DNA extraction method using filter paper-based 96-well spin plate. <i>Planta</i> , 2017, 246, 579-584.	3.2	14
31	Computational Prediction of Plant miRNA Targets. <i>Methods in Molecular Biology</i> , 2011, 744, 175-186.	0.9	13
32	Homoeologous chromosome exchange explains the creation of a QTL affecting soil-borne pathogen resistance in tobacco. <i>Plant Biotechnology Journal</i> , 2022, 20, 47-58.	8.3	12
33	Screening and analysis of differentially expressed genes from an alien addition line of wheat <i>Thinopyrum</i> intermedium induced by barley yellow dwarf virus infection. <i>Genome</i> , 2004, 47, 1114-1121.	2.0	11
34	Isolation of expressed sequences from a specific chromosome of <i>Thinopyrum intermedium</i> infected by BYDV. <i>Genome</i> , 2009, 52, 68-76.	2.0	11
35	Transcriptome-Based Analysis of Tomato Genotypes Resistant to Bacterial Spot ( <i>Xanthomonas</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10	4.1	8
36	Validation of artificial microRNA expression by poly(A) tailing-based RT-PCR. <i>Protocol Exchange</i> , 0, , .	0.3	6

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37	Enzyme Complexes of Ptr4CL and PtrHCT Modulate Co-enzyme A Ligation of Hydroxycinnamic Acids for Monolignol Biosynthesis in <i>Populus trichocarpa</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 727932.	3.6	5
38	Identification and validation of SNP markers associated with Wz-mediated <i>Phytophthora nicotianae</i> resistance in <i>Nicotiana tabacum</i> L.. <i>Molecular Breeding</i> , 2019, 39, 1.	2.1	4
39	RNAseq Reveals Differential Gene Expression Contributing to <i>Phytophthora nicotianae</i> Adaptation to Partial Resistance in Tobacco. <i>Agronomy</i> , 2021, 11, 656.	3.0	1
40	Genetic Control of Facultative Parthenocarpy in <i>Nicotiana tabacum</i> L.. <i>Journal of Heredity</i> , 2019, 110, 610-617.	2.4	0