

Kyung-Hwan Han

List of Publications by Year in descending order

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63
papers

4,153
citations

76326

40
h-index

123424

61
g-index

63
all docs

63
docs citations

63
times ranked

4453
citing authors

#	ARTICLE	IF	CITATIONS
1	Upregulation of an Arabidopsis RING-H2 gene, XERICO, confers drought tolerance through increased abscisic acid biosynthesis. <i>Plant Journal</i> , 2006, 47, 343-355.	5.7	328
2	Ectopic expression of MYB46 identifies transcriptional regulatory genes involved in secondary wall biosynthesis in Arabidopsis. <i>Plant Journal</i> , 2009, 60, 649-665.	5.7	259
3	ANAC012, a member of the plant-specific NAC transcription factor family, negatively regulates xylary fiber development in Arabidopsis thaliana. <i>Plant Journal</i> , 2007, 50, 1035-1048.	5.7	193
4	Plant Body Weight-Induced Secondary Growth in Arabidopsis and Its Transcription Phenotype Revealed by Whole-Transcriptome Profiling. <i>Plant Physiology</i> , 2004, 135, 1069-1083.	4.8	188
5	Isolation, Characterization, and Functional Analysis of a Novel cDNA Clone Encoding a Small Rubber Particle Protein from Hevea brasiliensis. <i>Journal of Biological Chemistry</i> , 1999, 274, 17132-17138.	3.4	180
6	An Agrobacterium tumefaciens transformation protocol effective on a variety of cottonwood hybrids (genus Populus). <i>Plant Cell Reports</i> , 2000, 19, 315-320.	5.6	159
7	Transcriptional regulation of secondary growth in Arabidopsis thaliana. <i>Journal of Experimental Botany</i> , 2003, 54, 2709-2722.	4.8	152
8	Transcriptome analysis reveals novel features of the molecular events occurring in the laticifers of Hevea brasiliensis (para rubber tree). <i>Plant Molecular Biology</i> , 2003, 53, 479-492.	3.9	144
9	MYB46 directly regulates the gene expression of secondary wall-associated cellulose synthases in Arabidopsis. <i>Plant Journal</i> , 2013, 73, 26-36.	5.7	134
10	An update on the nomenclature for the cellulose synthase genes in Populus. <i>Trends in Plant Science</i> , 2009, 14, 248-254.	8.8	112
11	Molecular Cloning, Expression, and Functional Analysis of a cis-Prenyltransferase from Arabidopsis thaliana. <i>Journal of Biological Chemistry</i> , 2000, 275, 18482-18488.	3.4	102
12	Identification of direct targets of transcription factor MYB46 provides insights into the transcriptional regulation of secondary wall biosynthesis. <i>Plant Molecular Biology</i> , 2014, 85, 589-599.	3.9	96
13	Identification of a cis-acting regulatory motif recognized by MYB46, a master transcriptional regulator of secondary wall biosynthesis. <i>Plant Molecular Biology</i> , 2012, 78, 489-501.	3.9	91
14	Developmental and seasonal expression of PtaHB1, a Populus gene encoding a class III HD-Zip protein, is closely associated with secondary growth and inversely correlated with the level of microRNA miR157. <i>Plant Molecular Biology</i> , 2010, 74, 1007-1017.	4.0	90
15	Global comparative transcriptome analysis identifies gene network regulating secondary xylem development in Arabidopsis thaliana. <i>Molecular Genetics and Genomics</i> , 2006, 276, 517-531.	2.1	82
16	Arabidopsis whole-transcriptome profiling defines the features of coordinated regulations that occur during secondary growth. <i>Plant Molecular Biology</i> , 2004, 55, 433-453.	3.9	80
17	Regeneration of a transgenic woody legume (Robinia pseudoacacia L., black locust) and morphological alterations induced by Agrobacterium rhizogenes-mediated transformation. <i>Plant Science</i> , 1993, 88, 149-157.	3.6	79
18	Genes expressed in the latex of Hevea brasiliensis. <i>Tree Physiology</i> , 2000, 20, 503-510.	3.1	75

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19	Genetic transformation of Cymbidium orchid by particle bombardment. <i>Plant Cell Reports</i> , 1999, 18, 978-984.	5.6	73
20	A molecular framework for seasonal growth-dormancy regulation in perennial plants. <i>Horticulture Research</i> , 2014, 1, 14059.	6.3	69
21	Identification of Natural Rubber and Characterization of Rubber Biosynthetic Activity in Fig Tree1. <i>Plant Physiology</i> , 2000, 123, 1133-1142.	4.8	68
22	Genetic Strategies for Enhancing Phytoremediation. <i>Annals of the New York Academy of Sciences</i> , 1994, 721, 481-491.	3.8	67
23	Transcriptome Profiling of Vertical Stem Segments Provides Insights into the Genetic Regulation of Secondary Growth in Hybrid Aspen Trees. <i>Plant and Cell Physiology</i> , 2005, 46, 1213-1225.	3.1	66
24	Seasonal changes in gene expression at the sapwood-heartwood transition zone of black locust (<i>Robinia pseudoacacia</i>) revealed by cDNA microarray analysis. <i>Tree Physiology</i> , 2004, 24, 461-474.	3.1	65
25	Rootstock-induced dwarfing in cherries is caused by differential cessation of terminal meristem growth and is triggered by rootstock-specific gene regulation. <i>Tree Physiology</i> , 2009, 29, 927-936.	3.1	65
26	AtC3H14, a plant-specific tandem CCCH zinc-finger protein, binds to its target mRNAs in a sequence-specific manner and affects cell elongation in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2014, 80, 772-784.	5.7	63
27	Developing xylem-preferential expression of <i>PdGA20ox1</i> , a gibberellin 20-oxidase 1 from <i>Pinus densiflora</i> , improves woody biomass production in a hybrid poplar. <i>Plant Biotechnology Journal</i> , 2016, 14, 1161-1170.	8.3	63
28	Title is missing!. <i>Transgenic Research</i> , 1997, 6, 415-420.	2.4	62
29	MYB46-Mediated Transcriptional Regulation of Secondary Wall Biosynthesis. <i>Molecular Plant</i> , 2012, 5, 961-963.	8.3	59
30	Genetic transformation of mature <i>Taxus</i> : an approach to genetically control the in vitro production of the anticancer drug, taxol. <i>Plant Science</i> , 1994, 95, 187-196.	3.6	58
31	Cloning, expression, and characterization of recombinant Hev b 3, a <i>Hevea brasiliensis</i> protein associated with latex allergy in patients with spina bifida. <i>Journal of Allergy and Clinical Immunology</i> , 1999, 104, 1084-1092.	2.4	58
32	Loss of function of COBRA, a determinant of oriented cell expansion, invokes cellular defence responses in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2006, 57, 2923-2936.	4.8	58
33	Novel gene expression profiles define the metabolic and physiological processes characteristic of wood and its extractive formation in a hardwood tree species, <i>Robinia pseudoacacia</i> . <i>Plant Molecular Biology</i> , 2003, 52, 935-956.	3.9	53
34	Tissue-type-specific transcriptome analysis identifies developing xylem-specific promoters in poplar. <i>Plant Biotechnology Journal</i> , 2012, 10, 587-596.	8.3	51
35	Transcriptional profiles of the annual growth cycle in <i>Populus deltoides</i> . <i>Tree Physiology</i> , 2008, 28, 321-329.	3.1	49
36	Transcription factor MYB46 is an obligate component of the transcriptional regulatory complex for functional expression of secondary wall-associated cellulose synthases in <i>Arabidopsis thaliana</i> . <i>Journal of Plant Physiology</i> , 2013, 170, 1374-1378.	3.5	49

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37	Functional Characterization of Allantoinase Genes from Arabidopsis and a Nonureide-Type Legume Black Locust. <i>Plant Physiology</i> , 2004, 134, 1039-1049.	4.8	48
38	Positive regulatory role of sound vibration treatment in Arabidopsis thaliana against Botrytis cinerea infection. <i>Scientific Reports</i> , 2017, 7, 2527.	3.3	45
39	Novel aspects of transcriptional regulation in the winter survival and maintenance mechanism of poplar. <i>Tree Physiology</i> , 2011, 31, 208-225.	3.1	44
40	Transcription factors that directly regulate the expression of CSLA9 encoding mannan synthase in Arabidopsis thaliana. <i>Plant Molecular Biology</i> , 2014, 84, 577-587.	3.9	44
41	An auxin-repressed gene (RpARP) from black locust (Robinia pseudoacacia) is posttranscriptionally regulated and negatively associated with shoot elongation. <i>Tree Physiology</i> , 2003, 23, 815-823.	3.1	41
42	Optimizing lignocellulosic feedstock for improved biofuel productivity and processing. <i>Biofuels, Bioproducts and Biorefining</i> , 2007, 1, 135-146.	3.7	39
43	Wood forming tissue-specific bicistronic expression of <i>PdGA20ox1</i> and <i>PtMYB221</i> improves both the quality and quantity of woody biomass production in a hybrid poplar. <i>Plant Biotechnology Journal</i> , 2019, 17, 1048-1057.	8.3	37
44	Differences in root-to-shoot Cd and Zn translocation and by HMA3 and 4 could influence chlorophyll and anthocyanin content in <i>Arabidopsis</i> Ws and Col-0 ecotypes under excess metals. <i>Soil Science and Plant Nutrition</i> , 2012, 58, 334-348.	1.9	24
45	Molecular cloning, characterization, and stress-responsive expression of genes encoding glycine-rich RNA-binding proteins in <i>Camelina sativa</i> L.. <i>Plant Physiology and Biochemistry</i> , 2013, 68, 44-51.	5.8	24
46	Cloning, characterization, and heterologous expression of a functional geranylgeranyl pyrophosphate synthase from sunflower (<i>Helianthus annuus</i> L.). <i>Journal of Plant Physiology</i> , 2000, 157, 535-542.	3.5	22
47	Overexpression of a Poplar RING-H2 Zinc Finger, Ptxerico, Confers Enhanced Drought Tolerance via Reduced Water Loss and Ion Leakage in <i>Populus</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 9454.	4.1	20
48	Synergistic effects of 2A-mediated polyproteins on the production of lignocellulose degradation enzymes in tobacco plants. <i>Journal of Experimental Botany</i> , 2012, 63, 4797-4810.	4.8	18
49	Large-scale computational analysis of poplar ESTs reveals the repertoire and unique features of expressed genes in the poplar genome. <i>Molecular Breeding</i> , 2004, 14, 429-440.	2.1	13
50	Biotechnological improvement of lignocellulosic feedstock for enhanced biofuel productivity and processing. <i>Plant Biotechnology Reports</i> , 2011, 5, 1-7.	1.5	13
51	Gain-of-function mutation of AtDICE1, encoding a putative endoplasmic reticulum-localized membrane protein, causes defects in anisotropic cell elongation by disturbing cell wall integrity in Arabidopsis. <i>Annals of Botany</i> , 2018, 122, 151-164.	2.9	13
52	Molecular cloning and characterization of a functional cDNA clone encoding isopentenyl diphosphate isomerase from <i>Hevea brasiliensis</i> . <i>Journal of Plant Physiology</i> , 2000, 157, 549-557.	3.5	11
53	Identification and functional analysis of a promoter sequence for phloem tissue specific gene expression from <i>Populus trichocarpa</i> . <i>Journal of Plant Biology</i> , 2017, 60, 129-136.	2.1	11
54	Mitogen-activated protein kinase 6 negatively regulates secondary wall biosynthesis by modulating MYB46 protein stability in Arabidopsis thaliana. <i>PLoS Genetics</i> , 2021, 17, e1009510.	3.5	11

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55	A shoot regeneration protocol effective on diverse genotypes of sunflower (<i>Helianthus annuus</i> L.). In <i>Vitro Cellular and Developmental Biology - Plant</i> , 2000, 36, 273-278.	2.1	9
56	EliteTree®, an advanced biomass tree crop technology that features greater wood density and accelerated stem growth. <i>Biofuels, Bioproducts and Biorefining</i> , 2017, 11, 521-533.	3.7	7
57	Nuclear Translocation of Soybean MPK6, GmMPK6, Is Mediated by Hydrogen Peroxide in Salt Stress. <i>Plants</i> , 2021, 10, 2611.	3.5	6
58	Evaluation of a novel promoter from <i>Populus trichocarpa</i> for mature xylem tissue specific gene delivery. <i>Plant Physiology and Biochemistry</i> , 2016, 104, 226-233.	5.8	4
59	Pathway-specific genetic pretreatment strategy to improve bioenergy feedstock. <i>Biomass and Bioenergy</i> , 2018, 115, 253-259.	5.7	3
60	Field evaluation of transgenic hybrid poplars with desirable wood properties and enhanced growth for biofuel production by bicistronic expression of PdGA2Ox1 and PtrMYB3 in wood-forming tissue. <i>Biotechnology for Biofuels</i> , 2021, 14, 177.	6.2	3
61	Large-scale computational analysis of poplar ESTs reveals the repertoire and unique features of expressed genes in the poplar genome. <i>Molecular Breeding</i> , 2005, 14, 429-440.	2.1	2
62	Genetic Engineering for Secondary Xylem Modification: Unraveling the Genetic Regulation of Wood Formation. , 2016, , 193-211.		1
63	Genetic Control of the Annual Growth Cycle in Woody Plants. , 2011, , 255-271.		0