

Shingo Sakamoto

List of Publications by Year in descending order

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38
papers

1,364
citations

471509

17
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361022

35
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41
all docs

41
docs citations

41
times ranked

1802
citing authors

#	ARTICLE	IF	CITATIONS
1	The <i>Apostasia</i> genome and the evolution of orchids. <i>Nature</i> , 2017, 549, 379-383.	27.8	305
2	Advances in microbial lignin degradation and its applications. <i>Current Opinion in Biotechnology</i> , 2019, 56, 179-186.	6.6	132
3	The NAC transcription factor ANAC046 is a positive regulator of chlorophyll degradation and senescence in <i>Arabidopsis</i> leaves. <i>Scientific Reports</i> , 2016, 6, 23609.	3.3	121
4	Engineering the <i>Oryza sativa</i> cell wall with rice NAC transcription factors regulating secondary wall formation. <i>Frontiers in Plant Science</i> , 2013, 4, 383.	3.6	101
5	Reconstitution of a Secondary Cell Wall in a Secondary Cell Wall-Deficient <i>Arabidopsis</i> Mutant. <i>Plant and Cell Physiology</i> , 2015, 56, 299-310.	3.1	70
6	Wood reinforcement of poplar by rice NAC transcription factor. <i>Scientific Reports</i> , 2016, 6, 19925.	3.3	64
7	Complete substitution of a secondary cell wall with a primary cell wall in <i>Arabidopsis</i> . <i>Nature Plants</i> , 2018, 4, 777-783.	9.3	63
8	<i>Populus</i> NST/SND orthologs are key regulators of secondary cell wall formation in wood fibers, phloem fibers and xylem ray parenchyma cells. <i>Tree Physiology</i> , 2019, 39, 514-525.	3.1	52
9	Vacuolar H ⁺ -Pyrophosphatase and Cytosolic Soluble Pyrophosphatases Cooperatively Regulate Pyrophosphate Levels in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2018, 30, 1040-1061.	6.6	44
10	Wound-inducible WUSCHEL-RELATED HOMEODOMAIN 13 is required for callus growth and organ reconnection. <i>Plant Physiology</i> , 2022, 188, 425-441.	4.8	44
11	Essential roles of autophagy in metabolic regulation in endosperm development during rice seed maturation. <i>Scientific Reports</i> , 2019, 9, 18544.	3.3	36
12	An <i>Arabidopsis</i> NAC domain transcription factor, ATAF2, promotes age-dependent and dark-induced leaf senescence. <i>Physiologia Plantarum</i> , 2020, 170, 299-308.	5.2	29
13	VP16 fusion induces the multiple knockout phenotype of redundant transcriptional repressors partly by Med25-independent mechanisms in <i>Arabidopsis</i> . <i>FEBS Letters</i> , 2014, 588, 3665-3672.	2.8	24
14	A Century-Old Mystery Unveiled: Sekizaisou is a Natural Lignin Mutant. <i>Plant Physiology</i> , 2020, 182, 1821-1828.	4.8	24
15	Mutation of the imprinted gene <i>OsEMF2a</i> induces autonomous endosperm development and delayed cellularization in rice. <i>Plant Cell</i> , 2021, 33, 85-103.	6.6	23
16	Change in lignin structure, but not in lignin content, in transgenic poplar overexpressing the rice master regulator of secondary cell wall biosynthesis. <i>Physiologia Plantarum</i> , 2018, 163, 170-182.	5.2	19
17	Identification of enzymatic genes with the potential to reduce biomass recalcitrance through lignin manipulation in <i>Arabidopsis</i> . <i>Biotechnology for Biofuels</i> , 2020, 13, 97.	6.2	19
18	Development of a new high-throughput method to determine the composition of ten monosaccharides including 4-O-methyl glucuronic acid from plant cell walls using ultra-performance liquid chromatography. <i>Plant Biotechnology</i> , 2015, 32, 55-63.	1.0	18

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19	High-Throughput Analysis of Arabidopsis Stem Vibrations to Identify Mutants With Altered Mechanical Properties. <i>Frontiers in Plant Science</i> , 2018, 9, 780.	3.6	15
20	An NAC domain transcription factor ATAF2 acts as transcriptional activator or repressor dependent on promoter context. <i>Plant Biotechnology</i> , 2018, 35, 285-289.	1.0	12
21	Improvement of cell wall digestibility in tall fescue by <i>Oryza sativa</i> SECONDARY WALL NAC DOMAIN PROTEIN2 chimeric repressor. <i>Molecular Breeding</i> , 2018, 38, 1.	2.1	10
22	Rerouting of the lignin biosynthetic pathway by inhibition of cytosolic shikimate recycling in transgenic hybrid aspen. <i>Plant Journal</i> , 2022, 110, 358-376.	5.7	10
23	The chimeric repressor for the GATA4 transcription factor improves tolerance to nitrogen deficiency in <i>Arabidopsis</i> . <i>Plant Biotechnology</i> , 2017, 34, 151-158.	1.0	9
24	Fiber Cell-Specific Expression of the VP16-Fused Ethylene Response Factor 41 Protein Increases Biomass Yield and Alters Lignin Composition. <i>Frontiers in Plant Science</i> , 2021, 12, 654655.	3.6	8
25	Efficient transient gene expression system using buckwheat hypocotyl protoplasts for large-scale experiments. <i>Breeding Science</i> , 2020, 70, 128-134.	1.9	8
26	In Planta Cell Wall Engineering: From Mutants to Artificial Cell Walls. <i>Plant and Cell Physiology</i> , 2021, 62, 1813-1827.	3.1	7
27	WUSCHEL-RELATED HOMEODOMAIN 2 is a transcriptional repressor involved in lateral organ formation and separation in <i>Arabidopsis</i> . <i>Plant Biotechnology</i> , 2016, 33, 245-253.	1.0	6
28	Golgi-localized membrane protein AtTMN1/EMP12 functions in the deposition of rhamnogalacturonan II and I for cell growth in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2021, 72, 3611-3629.	4.8	6
29	FIBexDB: a new online transcriptome platform to analyze development of plant cellulosic fibers. <i>New Phytologist</i> , 2021, 231, 512-515.	7.3	6
30	Molecular Cloning and Characterization of <i>L-Galactose-1-phosphate Phosphatase</i> from Tobacco (<i>Nicotiana tabacum</i>). <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 1155-1162.	1.3	5
31	The <i>Arabidopsis</i> NST3/SND1 promoter is active in secondary woody tissue in poplar. <i>Journal of Wood Science</i> , 2017, 63, 396-400.	1.9	5
32	Dissecting promoter of <i>InMYB1</i> gene showing petal-specific expression. <i>Plant Biotechnology</i> , 2018, 35, 243-248.	1.0	5
33	Prior secondary cell wall formation is required for gelatinous layer deposition and posture control in <i>graviâ€</i> stimulated aspen. <i>Plant Journal</i> , 2021, 108, 725-736.	5.7	4
34	Improved chemical pulping and saccharification of a natural mulberry mutant deficient in cinnamyl alcohol dehydrogenase. <i>Holzforschung</i> , 2021, .	1.9	3
35	Simultaneous manipulation of lignin structure and secondary cell wall formation in transgenic poplar. <i>Journal of Wood Science</i> , 2020, 66, .	1.9	3
36	Analysis of Ascorbic Acid Biosynthesis Using a Simple Transient Gene Expression System in Tomato Fruit Protoplasts. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 673-675.	1.3	2

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37	Arabidopsis homeobox-leucine zipper transcription factor BRASSINOSTEROID-RELATED HOMEBOX 3 regulates leaf greenness by suppressing BR signaling. <i>Plant Biotechnology</i> , 2022, 39, 209-214.	1.0	1
38	Tensile Testing Assay for the Measurement of Tissue Stiffness in Arabidopsis Inflorescence Stem. <i>Bio-protocol</i> , 2019, 9, e3327.	0.4	0