Richard Sibout

List of Publications by Year
in descending order

43 papers	3,976 citations	159585 30 h-index	254184 43 g-index
44 all docs	44 docs citations	44 times ranked	4990 citing authors

#	ARTICLE	IF	CITATIONS
1	CINNAMYL ALCOHOL DEHYDROGENASE-C and -D Are the Primary Genes Involved in Lignin Biosynthesis in the Floral Stem of Arabidopsis. Plant Cell, 2005, 17, 2059-2076.	6.6	346
2	Both caffeoyl Coenzyme A 3-O-methyltransferase 1 and caffeic acid O-methyltransferase 1 are involved in redundant functions for lignin, flavonoids and sinapoyl malate biosynthesis in Arabidopsis. Planta, 2007, 226, 1117-1129.	3.2	252
3	Brachypodium as a Model for the Grasses: Today and the Future Â. Plant Physiology, 2011, 157, 3-13.	4.8	243
4	Plant cell wall lignification and monolignol metabolism. Frontiers in Plant Science, 2013, 4, 220.	3.6	239
5	Mobile Gibberellin Directly Stimulates<i>Arabidopsis</i>Hypocotyl Xylem Expansion Â. Plant Cell, 2011, 23, 1322-1336.	6.6	196
6	Opposite Root Growth Phenotypes of hy5 versus hy5 hyh Mutants Correlate with Increased Constitutive Auxin Signaling. PLoS Genetics, 2006, 2, e202.	3.5	186
7	A new Arabidopsis thaliana mutant deficient in the expression of O-methyltransferase impacts lignins and sinapoyl esters. Plant Molecular Biology, 2003, 51, 973-989.	3.9	181
8	<i>p</i>â€Coumaroylâ€«<scp>C</scp>o<scp>A</scp>:monolignol transferase (<scp>PMT</scp>) acts specifically in the lignin biosynthetic pathway in <i><scp>B</scp>rachypodium distachyon</i>. Plant Journal, 2014, 77, 713-726.	5.7	175
9	Monolignol ferulate conjugates are naturally incorporated into plant lignins. Science Advances, 2016, 2, e1600393.	10.3	147
10	<i>FRIZZY PANICLE</i> Drives Supernumerary Spikelets in Bread Wheat. Plant Physiology, 2014, 167, 189-199.	4.8	131
11	Expression Pattern of Two Paralogs Encoding Cinnamyl Alcohol Dehydrogenases in Arabidopsis. Isolation and Characterization of the Corresponding Mutants. Plant Physiology, 2003, 132, 848-860.	4.8	124
12	Disrupting the <i>cinnamyl alcohol dehydrogenase 1</i> gene (<i>Bd<scp>CAD</scp>1</i>) leads to altered lignification and improved saccharification in <i>Brachypodium distachyon</i>. Plant Journal, 2013, 73, 496-508.	5.7	118
13	Genes involved in the biosynthesis of lignin precursors in Arabidopsis thaliana. Plant Physiology and Biochemistry, 2003, 41, 677-687.	5.8	115
14	Expression atlas and comparative coexpression network analyses reveal important genes involved in the formation of lignified cell wall in <i>Brachypodium distachyon</i>. New Phytologist, 2017, 215, 1009-1025.	7.3	108
15	Phytohormones and the cell wall in Arabidopsis during seedling growth. Trends in Plant Science, 2010, 15, 291-301.	8.8	107
16	Unequal genetic redundancies in Arabidopsis â€" a neglected phenomenon?. Trends in Plant Science, 2006, 11, 492-498.	8.8	103
17	Flowering as a Condition for Xylem Expansion in Arabidopsis Hypocotyl and Root. Current Biology, 2008, 18, 458-463.	3.9	102
18	Phytohormone collaboration: zooming in on auxinâ€"brassinosteroid interactions. Trends in Cell Biology, 2007, 17, 485-492.	7.9	96

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19	Structural Redesigning Arabidopsis Lignins into Alkali-Soluble Lignins through the Expression of <i>p-</i>Coumaroyl-CoA:Monolignol Transferase PMT. Plant Physiology, 2016, 170, 1358-1366.	4.8	89
20	Brachypodium: a promising hub between model species and cereals. Journal of Experimental Botany, 2014, 65, 5683-5696.	4.8	87
21	Lignification: different mechanisms for a versatile polymer. Current Opinion in Plant Biology, 2015, 23, 83-90.	7.1	86
22	Evidence for a role of AtCAD 1 in lignification of elongating stems of Arabidopsis thaliana. Planta, 2006, 225, 23-39.	3.2	84
23	A TILLING Platform for Functional Genomics in Brachypodium distachyon. PLoS ONE, 2013, 8, e65503.	2.5	76
24	LACCASE5 Is Required for Lignification of the <i>Brachypodium distachyon</i> Culm. Plant Physiology, 2015, 168, 192-204.	4.8	71
25	Distribution, mobility, and anchoring of lignin-related oxidative enzymes in Arabidopsis secondary cell walls. Journal of Experimental Botany, 2018, 69, 1849-1859.	4.8	71
26	Range of cell-wall alterations enhance saccharification in <i>Brachypodium distachyon</i> mutants. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14601-14606.	7.1	53
27	Mutation in<i>Brachypodium</i>caffeic acid<i>O</i>-methyltransferase 6 alters stem and grain lignins and improves straw saccharification without deteriorating grain quality. Journal of Experimental Botany, 2016, 67, 227-237.	4.8	49
28	Plant Cell Biology: The ABC of Monolignol Transport. Current Biology, 2012, 22, R533-R535.	3.9	41
29	Grass secondary cell walls, <i>Brachypodium distachyon</i> as a model for discovery. New Phytologist, 2020, 227, 1649-1667.	7.3	40
30	COMPOSITUM 1 contributes to the architectural simplification of barley inflorescence via meristem identity signals. Nature Communications, 2020, 11, 5138.	12.8	37
31	Expression of a poplar cDNA encoding a ferulate-5-hydroxylase/coniferaldehyde 5-hydroxylase increases S lignin deposition in Arabidopsis thaliana. Plant Physiology and Biochemistry, 2002, 40, 1087-1096.	5.8	35
32	Altered lignification in mur1-1 a mutant deficient in GDP-L-fucose synthesis with reduced RG-II cross linking. PLoS ONE, 2017, 12, e0184820.	2.5	28
33	Cell wall proteomic of <i>Brachypodium distachyon</i> grains: A focus on cell wall remodeling proteins. Proteomics, 2015, 15, 2296-2306.	2.2	26
34	Solute incompatibility with glutamine synthetase in water-stressed Populus nigra. Environmental and Experimental Botany, 1998, 40, 173-178.	4.2	23
35	Inactivation of LACCASE8 and LACCASE5 genes in Brachypodium distachyon leads to severe decrease in lignin content and high increase in saccharification yield without impacting plant integrity. Biotechnology for Biofuels, 2019, 12, 181.	6.2	22
36	Dwarfism of highâ€monolignol Arabidopsis plants is rescued by ectopic LACCASE overexpression. Plant Direct, 2020, 4, e00265.	1.9	17

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37	Brachypodium Cell Wall Mutant with Enhanced Saccharification Potential Despite Increased Lignin Content. Bioenergy Research, 2015, 8, 53-67.	3.9	15
38	<i>p</i>-Coumaroylation of poplar lignins impacts lignin structure and improves wood saccharification. Plant Physiology, 2021, 187, 1374-1386.	4.8	15
39	<scp><i>KARRIKIN INSENSITIVE2</i></scp> regulates leaf development, root system architecture and arbuscularâ€mycorrhizal symbiosis in <i>Brachypodium distachyon</i>. Plant Journal, 2022, 109, 1559-1574.	5.7	15
40	Roles of <i>BdUNICULME4</i> and <i>BdLAXATUMâ€A</i> in the nonâ€domesticated grass <i>Brachypodium distachyon</i>. Plant Journal, 2020, 103, 645-659.	5.7	11
41	BdERECTA controls vasculature patterning and phloem-xylem organization in Brachypodium distachyon. BMC Plant Biology, 2021, 21, 196.	3.6	7
42	Chemical and Radiation Mutagenesis: Induction and Detection by Whole Genome Sequencing. Plant Genetics and Genomics: Crops and Models, 2015, , 155-170.	0.3	5
43	Brachypodium distachyon UNICULME4 and LAXATUM-A are redundantly required for development. Plant Physiology, 2021, , .	4.8	4