

Alison Roberts

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,545
citations

394421

19
h-index

501196

28
g-index

32
all docs

32
docs citations

32
times ranked

1812
citing authors

#	ARTICLE	IF	CITATIONS
1	High-throughput mapping of cell-wall polymers within and between plants using novel microarrays. <i>Plant Journal</i> , 2007, 50, 1118-1128.	5.7	286
2	Functional Genomic Analysis Supports Conservation of Function Among Cellulose Synthase-Like A Gene Family Members and Suggests Diverse Roles of Mannans in Plants. <i>Plant Physiology</i> , 2007, 143, 1881-1893.	4.8	201
3	Comparative Structural and Computational Analysis Supports Eighteen Cellulose Synthases in the Plant Cellulose Synthesis Complex. <i>Scientific Reports</i> , 2016, 6, 28696.	3.3	174
4	The cellulose synthase (CESA) gene superfamily of the moss <i>Physcomitrella patens</i> . <i>Plant Molecular Biology</i> , 2006, 63, 207-219.	3.9	92
5	Phylogenetically Distinct Cellulose Synthase Genes Support Secondary Wall Thickening in Arabidopsis Shoot Trichomes and Cotton Fiber. <i>Journal of Integrative Plant Biology</i> , 2010, 52, 205-220.	8.5	84
6	Moss cell walls: structure and biosynthesis. <i>Frontiers in Plant Science</i> , 2012, 3, 166.	3.6	81
7	The Glycosyltransferase Repertoire of the Spikemoss <i>Selaginella moellendorffii</i> and a Comparative Study of Its Cell Wall. <i>PLoS ONE</i> , 2012, 7, e35846.	2.5	68
8	The ability of land plants to synthesize glucuronoxylans predates the evolution of tracheophytes. <i>Glycobiology</i> , 2012, 22, 439-451.	2.5	63
9	Cellulose Synthase (CesA) Genes in the Green Alga <i>Mesotaenium caldariorum</i> . <i>Eukaryotic Cell</i> , 2002, 1, 847-855.	3.4	55
10	A CELLULOSE SYNTHASE (CESA) gene essential for gametophore morphogenesis in the moss <i>Physcomitrella patens</i> . <i>Planta</i> , 2012, 235, 1355-1367.	3.2	49
11	Preferred crystallographic orientation of cellulose in plant primary cell walls. <i>Nature Communications</i> , 2020, 11, 4720.	12.8	41
12	Functional Specialization of Cellulose Synthase Isoforms in a Moss Shows Parallels with Seed Plants. <i>Plant Physiology</i> , 2017, 175, 210-222.	4.8	34
13	Immuno and Affinity Cytochemical Analysis of Cell Wall Composition in the Moss <i>Physcomitrella patens</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 248.	3.6	33
14	Structure/function relationships in the rosette cellulose synthesis complex illuminated by an evolutionary perspective. <i>Cellulose</i> , 2019, 26, 227-247.	4.9	31
15	Cellulose synthase (CesA) genes in algae and seedless plants. <i>Cellulose</i> , 2004, 11, 419-435.	4.9	30
16	Knocking Out the Wall: Protocols for Gene Targeting in <i>Physcomitrella patens</i> . <i>Methods in Molecular Biology</i> , 2011, 715, 273-290.	0.9	30
17	A CELLULOSE SYNTHASE (<i>CESA</i>) GENE FROM THE RED ALGA <i>PORPHYRA YEZOENSIS</i> (RHODOPHYTA). <i>Journal of Phycology</i> , 2009, 45, 203-212.	2.3	27
18	A Complementation Assay for in Vivo Protein Structure/Function Analysis in <i>Physcomitrella patens</i> (Funariaceae). <i>Applications in Plant Sciences</i> , 2015, 3, 1500023.	2.1	24

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19	Cellulose synthase "class specific regions"™ are intrinsically disordered and functionally undifferentiated. <i>Journal of Integrative Plant Biology</i> , 2018, 60, 481-497.	8.5	23
20	Functional Characterization of a Glycosyltransferase from the Moss <i>Physcomitrella patens</i> Involved in the Biosynthesis of a Novel Cell Wall Arabinoglucan. <i>Plant Cell</i> , 2018, 30, 1293-1308.	6.6	22
21	Direct observation of the effects of cellulose synthesis inhibitors using live cell imaging of Cellulose Synthase (CESA) in <i>Physcomitrella patens</i> . <i>Scientific Reports</i> , 2018, 8, 735.	3.3	21
22	Cellulose synthase gene expression profiling of <i>Physcomitrella patens</i> . <i>Plant Biology</i> , 2016, 18, 362-368.	3.8	14
23	The valine and lysine residues in the conserved FxVTxK motif are important for the function of phylogenetically distant plant cellulose synthases. <i>Glycobiology</i> , 2016, 26, 509-519.	2.5	14
24	In silico structure prediction of full-length cotton cellulose synthase protein (GhCESA1) and its hierarchical complexes. <i>Cellulose</i> , 2020, 27, 5597-5616.	4.9	13
25	Domain swaps of Arabidopsis secondary wall cellulose synthases to elucidate their class specificity. <i>Plant Direct</i> , 2018, 2, e00061.	1.9	11
26	Convergent evolution of hetero-oligomeric cellulose synthesis complexes in mosses and seed plants. <i>Plant Journal</i> , 2019, 99, 862-876.	5.7	9
27	Phenotypic effects of changes in the FTVTxB region of an Arabidopsis secondary wall cellulose synthase compared with results from analogous mutations in other isoforms. <i>Plant Direct</i> , 2021, 5, e335.	1.9	6
28	Cellulose synthesis complexes are homo-oligomeric and hetero-oligomeric in <i>Physcomitrium patens</i> . <i>Plant Physiology</i> , 2022, 188, 2115-2130.	4.8	6
29	Cellulose microfibril structure: inspirations from plant diversity. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 130, 012001.	0.3	0
30	Knocking Out the Wall: Revised Protocols for Gene Targeting in <i>Physcomitrella patens</i> . <i>Methods in Molecular Biology</i> , 2020, 2149, 125-144.	0.9	0