

Peter Ulvskov

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111
papers

8,483
citations

36
h-index

92
g-index

118
ext. papers

10,001
ext. citations

8.4
avg, IF

6.47
L-index

#	Paper	IF	Citations
111	Hemicelluloses. <i>Annual Review of Plant Biology</i> , 2010 , 61, 263-89	30.7	1698
110	Genome sequencing and analysis of the model grass <i>Brachypodium distachyon</i> . <i>Nature</i> , 2010 , 463, 763-850.4	50.4	1399
109	The <i>Selaginella</i> genome identifies genetic changes associated with the evolution of vascular plants. <i>Science</i> , 2011 , 332, 960-3	33.3	622
108	The <i>Amborella</i> genome and the evolution of flowering plants. <i>Science</i> , 2013 , 342, 1241089	33.3	546
107	If homogalacturonan were a side chain of rhamnogalacturonan I. Implications for cell wall architecture. <i>Plant Physiology</i> , 2003 , 132, 1781-9	6.6	474
106	The Cell Walls of Green Algae: A Journey through Evolution and Diversity. <i>Frontiers in Plant Science</i> , 2012 , 3, 82	6.2	234
105	O-glycosylated cell wall proteins are essential in root hair growth. <i>Science</i> , 2011 , 332, 1401-3	33.3	220
104	The <i>Chara</i> Genome: Secondary Complexity and Implications for Plant Terrestrialization. <i>Cell</i> , 2018 , 174, 448-464.e24	56.2	213
103	Pectin engineering: modification of potato pectin by in vivo expression of an endo-1,4-beta-D-galactanase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 7639-44	11.5	144
102	XAX1 from glycosyltransferase family 61 mediates xylosyltransfer to rice xylan. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 17117-22	11.5	140
101	High-throughput screening of monoclonal antibodies against plant cell wall glycans by hierarchical clustering of their carbohydrate microarray binding profiles. <i>Glycoconjugate Journal</i> , 2008 , 25, 37-48	3	138
100	Modulation of plasma membrane H ⁺ -ATPase from oat roots by lysophosphatidylcholine, free fatty acids and phospholipase A2. <i>Physiologia Plantarum</i> , 1988 , 74, 11-19	4.6	122
99	<i>Arabidopsis thaliana</i> RGXT1 and RGXT2 encode Golgi-localized (1,3)-alpha-D-xylosyltransferases involved in the synthesis of pectic rhamnogalacturonan-II. <i>Plant Cell</i> , 2006 , 18, 2593-607	11.6	106
98	Biophysical consequences of remodeling the neutral side chains of rhamnogalacturonan I in tubers of transgenic potatoes. <i>Planta</i> , 2005 , 220, 609-20	4.7	105
97	Why Plants Were Terrestrial from the Beginning. <i>Trends in Plant Science</i> , 2016 , 21, 96-101	13.1	88
96	In muro fragmentation of the rhamnogalacturonan I backbone in potato (<i>Solanum tuberosum</i> L.) results in a reduction and altered location of the galactan and arabinan side-chains and abnormal periderm development. <i>Plant Journal</i> , 2002 , 30, 403-13	6.9	83
95	Characterization of a functional soluble form of a <i>Brassica napus</i> membrane-anchored endo-1,4-beta-glucanase heterologously expressed in <i>Pichia pastoris</i> . <i>Plant Physiology</i> , 2001 , 127, 674-84	6.6	80

94	Effect of detergents on the H(+)-ATPase activity of inside-out and right-side-out plant plasma membrane vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1990 , 1021, 133-40	3.8	79
93	Approaches to understanding the functional architecture of the plant cell wall. <i>Phytochemistry</i> , 2001 , 57, 811-21	4	78
92	Molecular characterization of two <i>Arabidopsis thaliana</i> glycosyltransferase mutants, rra1 and rra2, which have a reduced residual arabinose content in a polymer tightly associated with the cellulosic wall residue. <i>Plant Molecular Biology</i> , 2007 , 64, 439-51	4.6	76
91	Cell wall evolution and diversity. <i>Frontiers in Plant Science</i> , 2012 , 3, 152	6.2	75
90	Isolation and characterisation of a pod dehiscence zone-specific polygalacturonase from <i>Brassica napus</i> . <i>Plant Molecular Biology</i> , 1996 , 31, 517-27	4.6	73
89	Effects on interfacial properties and cell adhesion of surface modification by pectic hairy regions. <i>Biomacromolecules</i> , 2004 , 5, 2094-104	6.9	68
88	A complementary bioinformatics approach to identify potential plant cell wall glycosyltransferase-encoding genes. <i>Plant Physiology</i> , 2004 , 136, 2609-20	6.6	61
87	A β -glucuronosyltransferase from <i>Arabidopsis thaliana</i> involved in biosynthesis of type II arabinogalactan has a role in cell elongation during seedling growth. <i>Plant Journal</i> , 2013 , 76, 1016-29	6.9	60
86	Analysis of a dehiscence zone endo-polygalacturonase in oilseed rape (<i>Brassica napus</i>) and <i>Arabidopsis thaliana</i> : evidence for roles in cell separation in dehiscence and abscission zones, and in stylar tissues during pollen tube growth. <i>Plant Molecular Biology</i> , 2001 , 46, 469-79	4.6	59
85	Direct interference with rhamnogalacturonan I biosynthesis in Golgi vesicles. <i>Plant Physiology</i> , 2002 , 129, 95-102	6.6	57
84	Ethylene biosynthesis in oilseed rape pods in relation to pod shatter. <i>Journal of Experimental Botany</i> , 1998 , 49, 829-838	7	57
83	Evidence for land plant cell wall biosynthetic mechanisms in charophyte green algae. <i>Annals of Botany</i> , 2014 , 114, 1217-36	4.1	55
82	Phenolic cross-links: building and de-constructing the plant cell wall. <i>Natural Product Reports</i> , 2020 , 37, 919-961	15.1	53
81	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	3.7	52
80	Engineering mammalian mucin-type O-glycosylation in plants. <i>Journal of Biological Chemistry</i> , 2012 , 287, 11911-23	5.4	47
79	Residue specific hydration of primary cell wall potato pectin identified by solid-state ^{13}C single-pulse MAS and CP/MAS NMR spectroscopy. <i>Biomacromolecules</i> , 2011 , 12, 1844-50	6.9	45
78	Functional characterisation of a putative rhamnogalacturonan II specific xylosyltransferase. <i>FEBS Letters</i> , 2008 , 582, 3217-22	3.8	38
77	Autohydrolysis of plant xylans by apoplastic expression of thermophilic bacterial endo-xylanases. <i>Plant Biotechnology Journal</i> , 2010 , 8, 363-74	11.6	37

76	Cytokinins and leaf development in sweet pepper (<i>Capsicum annuum</i> L.). <i>Planta</i> , 1992 , 188, 70-77	4.7	36
75	Identification of an algal xylan synthase indicates that there is functional orthology between algal and plant cell wall biosynthesis. <i>New Phytologist</i> , 2018 , 218, 1049-1060	9.8	35
74	The role of auxin in cell separation in the dehiscence zone of oilseed rape pods. <i>Journal of Experimental Botany</i> , 1997 , 48, 1423-1429	7	35
73	Expression of mung bean pectin acetyl esterase in potato tubers: effect on acetylation of cell wall polymers and tuber mechanical properties. <i>Planta</i> , 2012 , 236, 185-96	4.7	34
72	Large-scale extraction of rhamnogalacturonan I from industrial potato waste. <i>Food Chemistry</i> , 2012 , 131, 1207-1216	8.5	34
71	The cleavable N-terminal domain of plant endopolygalacturonases from clade B may be involved in a regulated secretion mechanism. <i>Journal of Biological Chemistry</i> , 2001 , 276, 35297-304	5.4	32
70	In vitro biosynthesis of 1,4-beta-galactan attached to rhamnogalacturonan I. <i>Planta</i> , 2000 , 210, 622-9	4.7	32
69	Mechanical properties of plant cell walls probed by relaxation spectra. <i>Plant Physiology</i> , 2011 , 155, 246-586		31
68	Two <i>Arabidopsis thaliana</i> genes, KOR2 and KOR3, which encode membrane-anchored endo-1,4-beta-D-glucanases, are differentially expressed in developing leaf trichomes and their support cells. <i>Plant Molecular Biology</i> , 2001 , 46, 263-75	4.6	31
67	Toward stable genetic engineering of human O-glycosylation in plants. <i>Plant Physiology</i> , 2012 , 160, 450-636		29
66	Metabolomic, transcriptional, hormonal, and signaling cross-talk in superroot2. <i>Molecular Plant</i> , 2010 , 3, 192-211	14.4	29
65	Examination of the dehiscence zone in soybean pods and isolation of a dehiscence-related endopolygalacturonase gene. <i>Plant, Cell and Environment</i> , 2002 , 25, 479-490	8.4	26
64	Classification, naming and evolutionary history of glycosyltransferases from sequenced green and red algal genomes. <i>PLoS ONE</i> , 2013 , 8, e76511	3.7	25
63	Identification and evolution of a plant cell wall specific glycoprotein glycosyl transferase, ExAD. <i>Scientific Reports</i> , 2017 , 7, 45341	4.9	22
62	Pectic arabinan side chains are essential for pollen cell wall integrity during pollen development. <i>Plant Biotechnology Journal</i> , 2014 , 12, 492-502	11.6	22
61	Pea Border Cell Maturation and Release Involve Complex Cell Wall Structural Dynamics. <i>Plant Physiology</i> , 2017 , 174, 1051-1066	6.6	21
60	Assay and heterologous expression in <i>Pichia pastoris</i> of plant cell wall type-II membrane anchored glycosyltransferases. <i>Glycoconjugate Journal</i> , 2009 , 26, 1235-46	3	21
59	Sustainable production of cellulose nanofiber gels and paper from sugar beet waste using enzymatic pre-treatment. <i>Carbohydrate Polymers</i> , 2020 , 230, 115581	10.3	21

58	Degradation of lignin Earyl ether units in Arabidopsis thaliana expressing LigD, LigF and LigG from Sphingomonas paucimobilis SYK-6. <i>Plant Biotechnology Journal</i> , 2017 , 15, 581-593	11.6	20
57	Simultaneous in vivo truncation of pectic side chains. <i>Transgenic Research</i> , 2009 , 18, 961-9	3.3	20
56	Subcellular localization and topology of beta(1-->4)galactosyltransferase that elongates beta(1-->4)galactan side chains in rhamnogalacturonan I in potato. <i>Planta</i> , 2004 , 218, 862-8	4.7	18
55	Effect of nanocoating with rhamnogalacturonan-I on surface properties and osteoblasts response. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 654-64	5.4	17
54	Solubilization of galactosyltransferase that synthesizes 1,4-beta-galactan side chains in pectic rhamnogalacturonan I. <i>Physiologia Plantarum</i> , 2002 , 114, 540-548	4.6	17
53	Efficacy of an intron-containing kanamycin resistance gene as a selectable marker in plant transformation. <i>Plant Cell Reports</i> , 2001 , 20, 610-615	5.1	17
52	Cytokinins and leaf development in sweet pepper (<i>Capsicum annuum</i> L.). <i>Planta</i> , 1992 , 188, 78-84	4.7	16
51	Preparation and Properties of Antibodies against Indoleacetic Acid (IAA)-C5-BSA, a Novel Ring-Coupled IAA Antigen, as Compared to Two Other Types of IAA-Specific Antibodies. <i>Plant Physiology</i> , 1989 , 89, 1071-8	6.6	16
50	Nanofibers Produced from Agro-Industrial Plant Waste Using Entirely Enzymatic Pretreatments. <i>Biomacromolecules</i> , 2019 , 20, 443-453	6.9	16
49	Affecting osteoblastic responses with in vivo engineered potato pectin fragments. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 111-9	5.4	15
48	Hydroxyproline-Rich Glycoproteins: Form and Function321-342		15
47	Expression of a membrane-anchored endo-1,4-beta-glucanase from Brassica napus, orthologous to KOR from Arabidopsis thaliana, is inversely correlated to elongation in light-grown plants. <i>Plant Molecular Biology</i> , 2001 , 45, 93-105	4.6	14
46	Amylose/cellulose nanofiber composites for all-natural, fully biodegradable and flexible bioplastics. <i>Carbohydrate Polymers</i> , 2021 , 253, 117277	10.3	14
45	Immunoaffinity purification using monoclonal antibodies for the isolation of indole auxins from elongation zones of epicotyls of red-light-grown Alaska peas. <i>Planta</i> , 1992 , 188, 182-9	4.7	13
44	Immunoaffinity Purification of Indole-3-acetamide Using Monoclonal Antibodies. <i>Plant and Cell Physiology</i> , 1987 , 28, 937-945	4.9	13
43	Characterisation of the arabinose-rich carbohydrate composition of immature and mature marama beans (<i>Tylosema esculentum</i>). <i>Phytochemistry</i> , 2011 , 72, 1466-72	4	12
42	Selective Enzymatic Release and Gel Formation by Cross-Linking of Feruloylated Glucurono-Arabinoxylan from Corn Bran. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 8164-8174	8.3	9
41	Cell Wall Polysaccharide Composition and Covalent Crosslinking 2010 , 1-42		9

40	Rhamnogalacturonan-I Based Microcapsules for Targeted Drug Release. <i>PLoS ONE</i> , 2016 , 11, e0168050	3.7	9
39	Golgi-localized exo- β ,3-galactosidases involved in cell expansion and root growth in. <i>Journal of Biological Chemistry</i> , 2020 , 295, 10581-10592	5.4	8
38	Expression of a fungal endo- β ,5-l-arabinanase during stolon differentiation in potato inhibits tuber formation and results in accumulation of starch and tuber-specific transcripts in the stem. <i>Plant Science</i> , 2005 , 169, 872-881	5.3	8
37	Remodelling Pectin Structure In Potato. <i>Developments in Plant Genetics and Breeding</i> , 2000 , 6, 245-256		8
36	The structurally effect of surface coated rhamnogalacturonan I on response of the osteoblast-like cell line SaOS-2. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 1961-71	5.4	7
35	Glycosyltransferases of the GT8 Family 2010 , 167-211		7
34	Plant Protein -Arabinosylation. <i>Frontiers in Plant Science</i> , 2021 , 12, 645219	6.2	7
33	Cytokinins and leaf development in sweet pepper (<i>Capsicum annuum</i> L.) : I. Spatial distribution of endogenous cytokinins in relation to leaf growth. <i>Planta</i> , 1992 , 188, 70-7	4.7	6
32	<i>Penium margaritaceum</i> as a model organism for cell wall analysis of expanding plant cells. <i>Methods in Molecular Biology</i> , 2015 , 1242, 1-21	1.4	6
31	Genes and Enzymes of the GT31 Family: Towards Unravelling the Function(s) of the Plant Glycosyltransferase Family Members 213-234		6
30	Biosynthesis of Plant Cell Wall and Related Polysaccharides by Enzymes of the GT2 and GT48 Families 2010 , 109-165		5
29	The role of cellulase in hormonal regulation of shoot morphogenesis in tobacco callus. <i>Planta</i> , 1995 , 196, 727-731	4.7	5
28	Extensin arabinoside chain length is modulated in elongating cotton fibre. <i>Cell Surface</i> , 2019 , 5, 100033	4.8	5
27	Metabolism of polysaccharides in dynamic middle lamellae during cotton fibre development. <i>Planta</i> , 2019 , 249, 1565-1581	4.7	4
26	Glycosyltransferases of the GT47 Family 2010 , 265-283		4
25	Towards Unravelling the Biological Significance of the Individual Components of Pectic Hairly Regions in Plants 2003 , 15-34		4
24	Ancient origin of fucosylated xyloglucan in charophycean green algae. <i>Communications Biology</i> , 2021 , 4, 754	6.7	4
23	Approaches to Chemical Synthesis of Pectic Oligosaccharides 65-92		4

22	Plant Cell Wall Biology: Polysaccharides in Architectural and Developmental Contexts 2010 , 343-366		3
21	Hormonal and Phenolic Changes Accompanying and Following UV-C Induced Stress in <i>Spathiphyllum</i> leaves. <i>Journal of Plant Physiology</i> , 1987 , 130, 291-306	3.6	3
20	Glycosyltransferases of the GT77 Family 305-320		3
19	Glycosyltransferases of the GT34 and GT37 Families 235-249		3
18	Cytokinins and leaf development in sweet pepper (<i>Capsicum annuum</i> L.) : II. Sink metabolism in relation to cytokinin-promoted leaf expansion. <i>Planta</i> , 1992 , 188, 78-84	4.7	2
17	Enzymatic Modification of Plant Cell Wall Polysaccharides 367-387		2
16	Glycan Engineering in Transgenic Plants 409-424		2
15	Cellulose Nanofibrils as Assay Substrates for Cellulases and Lytic Polysaccharide Monooxygenases. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6729-6736	5.6	1
14	Glycosyltransferases of the GT77 Family 2018 , 305-320		1
13	Dehiscence 137-163		1
12	Array-based microfibril surface assessment (AMSA): a method for probing surface-exposed polysaccharides on cellulose nanofibres. <i>Cellulose</i> , 2020 , 27, 8635-8651	5.5	1
11	Production of Heterologous Storage Polysaccharides in Potato Plants 389-408		1
10	Dissection of Plant Cell Walls by High-Throughput Methods 43-64		1
9	The Plant Glycosyltransferase Family GT64: In Search of a Function 285-303		0
8	Analytical implications of different methods for preparing plant cell wall material. <i>Carbohydrate Polymers</i> , 2021 , 261, 117866	10.3	0
7	Chemical Synthesis of L-Fucose Derivatives for Acceptor Specificity Characterisation of Plant Cell Wall Glycosyltransferases. <i>ChemistrySelect</i> , 2017 , 2, 997-1007	1.8	
6	Cell walls have a new family. <i>Nature Plants</i> , 2018 , 4, 635-636	11.5	
5	Annotating Carbohydrate-Active Enzymes in Plant Genomes: Present Challenges 2010 , 93-107		

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- 2 Glycosyltransferases of the GT43 Family 251-263
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