Peter Ulvskov

List of Publications by Year in Descending Order

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	Plant Protein -Arabinosylation. *Frontiers in Plant Science*, **2021**, 12, 645219	6.2	7
110	Ancient origin of fucosylated xyloglucan in charophycean green algae. *Communications Biology*, **2021**, 4, 754	6.7	4
109	Analytical implications of different methods for preparing plant cell wall material. *Carbohydrate Polymers*, **2021**, 261, 117866	10.3	0
108	Amylose/cellulose nanofiber composites for all-natural, fully biodegradable and flexible bioplastics. *Carbohydrate Polymers*, **2021**, 253, 117277	10.3	14
107	Selective Enzymatic Release and Gel Formation by Cross-Linking of Feruloylated Glucurono-Arabinoxylan from Corn Bran. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 8164-8174	8.3	9
106	Golgi-localized exo-β1,3-galactosidases involved in cell expansion and root growth in. *Journal of Biological Chemistry*, **2020**, 295, 10581-10592	5.4	8
105	Cellulose Nanofibrils as Assay Substrates for Cellulases and Lytic Polysaccharide Monooxygenases. *ACS Applied Nano Materials*, **2020**, 3, 6729-6736	5.6	1
104	Phenolic cross-links: building and de-constructing the plant cell wall. *Natural Product Reports*, **2020**, 37, 919-961	15.1	53
103	Sustainable production of cellulose nanofiber gels and paper from sugar beet waste using enzymatic pre-treatment. *Carbohydrate Polymers*, **2020**, 230, 115581	10.3	21
102	Array-based microfibril surface assessment (AMSA): a method for probing surface-exposed polysaccharides on cellulose nanofibres. *Cellulose*, **2020**, 27, 8635-8651	5.5	1
101	Metabolism of polysaccharides in dynamic middle lamellae during cotton fibre development. *Planta* , **2019**, 249, 1565-1581	4.7	4
100	Extensin arabinoside chain length is modulated in elongating cotton fibre. *Cell Surface*, **2019**, 5, 100033	4.8	5
99	Nanofibers Produced from Agro-Industrial Plant Waste Using Entirely Enzymatic Pretreatments. *Biomacromolecules*, **2019**, 20, 443-453	6.9	16
98	Identification of an algal xylan synthase indicates that there is functional orthology between algal and plant cell wall biosynthesis. *New Phytologist*, **2018**, 218, 1049-1060	9.8	35
97	Cell walls have a new family. *Nature Plants*, **2018**, 4, 635-636	11.5	
96	The Chara Genome: Secondary Complexity and Implications for Plant Terrestrialization. *Cell*, **2018**, 174, 448-464.e24	56.2	213
95	Glycosyltransferases of the GT77 Family **2018**, 305-320		1

94	Dehiscence **2018**, 137-163		
93	Pea Border Cell Maturation and Release Involve Complex Cell Wall Structural Dynamics. *Plant Physiology*, **2017**, 174, 1051-1066	6.6	21
92	Chemical Synthesis of L-Fucose Derivatives for Acceptor Specificity Characterisation of Plant Cell Wall Glycosyltransferases. *ChemistrySelect*, **2017**, 2, 997-1007	1.8	
91	Identification and evolution of a plant cell wall specific glycoprotein glycosyl transferase, ExAD. *Scientific Reports*, **2017**, 7, 45341	4.9	22
90	Degradation of lignin β-aryl ether units in Arabidopsis thaliana expressing LigD, LigF and LigG from Sphingomonas paucimobilis SYK-6. *Plant Biotechnology Journal*, **2017**, 15, 581-593	11.6	20
89	Why Plants Were Terrestrial from the Beginning. *Trends in Plant Science*, **2016**, 21, 96-101	13.1	88
88	Rhamnogalacturonan-I Based Microcapsules for Targeted Drug Release. *PLoS ONE*, **2016**, 11, e0168050	3.7	9
87	Penium margaritaceum as a model organism for cell wall analysis of expanding plant cells. *Methods in Molecular Biology*, **2015**, 1242, 1-21	1.4	6
86	Pectic arabinan side chains are essential for pollen cell wall integrity during pollen development. *Plant Biotechnology Journal*, **2014**, 12, 492-502	11.6	22
85	Evidence for land plant cell wall biosynthetic mechanisms in charophyte green algae. *Annals of Botany*, **2014**, 114, 1217-36	4.1	55
84	The structurally effect of surface coated rhamnogalacturonan I on response of the osteoblast-like cell line SaOS-2. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 1961-71	5.4	7
83	The Amborella genome and the evolution of flowering plants. *Science*, **2013**, 342, 1241089	33.3	546
82	A β-glucuronosyltransferase from Arabidopsis thaliana involved in biosynthesis of type II arabinogalactan has a role in cell elongation during seedling growth. *Plant Journal*, **2013**, 76, 1016-29	6.9	60
81	Classification, naming and evolutionary history of glycosyltransferases from sequenced green and red algal genomes. *PLoS ONE*, **2013**, 8, e76511	3.7	25
80	Affecting osteoblastic responses with in vivo engineered potato pectin fragments. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 111-9	5.4	15
79	Effect of nanocoating with rhamnogalacturonan-I on surface properties and osteoblasts response. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 654-64	5.4	17
78	Toward stable genetic engineering of human O-glycosylation in plants. *Plant Physiology*, **2012**, 160, 450-63	6.6	29
77	XAX1 from glycosyltransferase family 61 mediates xylosyltransfer to rice xylan. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 17117-22	11.5	140

76	Engineering mammalian mucin-type O-glycosylation in plants. *Journal of Biological Chemistry*, **2012**, 287, 11911-23	5.4	47
75	The glycosyltransferase repertoire of the spikemoss Selaginella moellendorffii and a comparative study of its cell wall. *PLoS ONE*, **2012**, 7, e35846	3.7	52
74	Expression of mung bean pectin acetyl esterase in potato tubers: effect on acetylation of cell wall polymers and tuber mechanical properties. *Planta*, **2012**, 236, 185-96	4.7	34
73	Large-scale extraction of rhamnogalacturonan I from industrial potato waste. *Food Chemistry*, **2012**, 131, 1207-1216	8.5	34
72	The Cell Walls of Green Algae: A Journey through Evolution and Diversity. *Frontiers in Plant Science*, **2012**, 3, 82	6.2	234
71	Cell wall evolution and diversity. *Frontiers in Plant Science*, **2012**, 3, 152	6.2	75
70	Residue specific hydration of primary cell wall potato pectin identified by solid-state 13C single-pulse MAS and CP/MAS NMR spectroscopy. *Biomacromolecules*, **2011**, 12, 1844-50	6.9	45
69	The Selaginella genome identifies genetic changes associated with the evolution of vascular plants. *Science*, **2011**, 332, 960-3	33.3	622
68	O-glycosylated cell wall proteins are essential in root hair growth. *Science*, **2011**, 332, 1401-3	33.3	220
67	Characterisation of the arabinose-rich carbohydrate composition of immature and mature marama beans (Tylosema esculentum). *Phytochemistry*, **2011**, 72, 1466-72	4	12
66	Mechanical properties of plant cell walls probed by relaxation spectra. *Plant Physiology*, **2011**, 155, 246-58	6.6	31
65	Genome sequencing and analysis of the model grass Brachypodium distachyon. *Nature*, **2010**, 463, 763-8	50.4	1399
64	Autohydrolysis of plant xylans by apoplastic expression of thermophilic bacterial endo-xylanases. *Plant Biotechnology Journal*, **2010**, 8, 363-74	11.6	37
63	Glycosyltransferases of the GT47 Family **2010**, 265-283		4
62	Metabolomic, transcriptional, hormonal, and signaling cross-talk in superroot2. *Molecular Plant*, **2010**, 3, 192-211	14.4	29
61	Annotating Carbohydrate-Active Enzymes in Plant Genomes: Present Challenges **2010**, 93-107		
60	Plant Cell Wall Biology: Polysaccharides in Architectural and Developmental Contexts **2010**, 343-366		3
59	Biosynthesis of Plant Cell Wall and Related Polysaccharides by Enzymes of the GT2 and GT48 Families **2010**, 109-165		5

58	Glycosyltransferases of the GT8 Family **2010**, 167-211		7
57	Hemicelluloses. *Annual Review of Plant Biology*, **2010**, 61, 263-89	30.7	1698
56	Cell Wall Polysaccharide Composition and Covalent Crosslinking **2010**, 1-42		9
55	Assay and heterologous expression in Pichia pastoris of plant cell wall type-II membrane anchored glycosyltransferases. *Glycoconjugate Journal*, **2009**, 26, 1235-46	3	21
54	Simultaneous in vivo truncation of pectic side chains. *Transgenic Research*, **2009**, 18, 961-9	3.3	20
53	Functional characterisation of a putative rhamnogalacturonan II specific xylosyltransferase. *FEBS Letters*, **2008**, 582, 3217-22	3.8	38
52	High-throughput screening of monoclonal antibodies against plant cell wall glycans by hierarchical clustering of their carbohydrate microarray binding profiles. *Glycoconjugate Journal*, **2008**, 25, 37-48	3	138
51	Molecular characterization of two Arabidopsis thaliana glycosyltransferase mutants, rra1 and rra2, which have a reduced residual arabinose content in a polymer tightly associated with the cellulosic wall residue. *Plant Molecular Biology*, **2007**, 64, 439-51	4.6	76
50	Arabidopsis thaliana RGXT1 and RGXT2 encode Golgi-localized (1,3)-alpha-D-xylosyltransferases involved in the synthesis of pectic rhamnogalacturonan-II. *Plant Cell*, **2006**, 18, 2593-607	11.6	106
49	Expression of a fungal endo-1,5-l-arabinanase during stolon differentiation in potato inhibits tuber formation and results in accumulation of starch and tuber-specific transcripts in the stem. *Plant Science*, **2005**, 169, 872-881	5.3	8
48	Biophysical consequences of remodeling the neutral side chains of rhamnogalacturonan I in tubers of transgenic potatoes. *Planta*, **2005**, 220, 609-20	4.7	105
47	A complementary bioinformatics approach to identify potential plant cell wall glycosyltransferase-encoding genes. *Plant Physiology*, **2004**, 136, 2609-20	6.6	61
46	Subcellular localization and topology of beta(1-->4)galactosyltransferase that elongates beta(1-->4)galactan side chains in rhamnogalacturonan I in potato. *Planta*, **2004**, 218, 862-8	4.7	18
45	Effects on interfacial properties and cell adhesion of surface modification by pectic hairy regions. *Biomacromolecules*, **2004**, 5, 2094-104	6.9	68
44	If homogalacturonan were a side chain of rhamnogalacturonan I. Implications for cell wall architecture. *Plant Physiology*, **2003**, 132, 1781-9	6.6	474
43	Towards Unravelling the Biological Significance of the Individual Components of Pectic Hairy Regions in Plants **2003**, 15-34		4
42	Solubilization of galactosyltransferase that synthesizes 1,4-beta-galactan side chains in pectic rhamnogalacturonan I. *Physiologia Plantarum*, **2002**, 114, 540-548	4.6	17
41	Examination of the dehiscence zone in soybean pods and isolation of a dehiscence-related endopolygalacturonase gene. *Plant, Cell and Environment*, **2002**, 25, 479-490	8.4	26

40	In muro fragmentation of the rhamnogalacturonan I backbone in potato (Solanum tuberosum L.) results in a reduction and altered location of the galactan and arabinan side-chains and abnormal periderm development. *Plant Journal*, **2002**, 30, 403-13	6.9	83
39	Direct interference with rhamnogalacturonan I biosynthesis in Golgi vesicles. *Plant Physiology*, **2002**, 129, 95-102	6.6	57
38	Efficacy of an intron-containing kanamycin resistance gene as a selectable marker in plant transformation. *Plant Cell Reports*, **2001**, 20, 610-615	5.1	17
37	Approaches to understanding the functional architecture of the plant cell wall. *Phytochemistry*, **2001**, 57, 811-21	4	78
36	Analysis of a dehiscence zone endo-polygalacturonase in oilseed rape (Brassica napus) and Arabidopsis thaliana: evidence for roles in cell separation in dehiscence and abscission zones, and in stylar tissues during pollen tube growth. *Plant Molecular Biology*, **2001**, 46, 469-79	4.6	59
35	Two Arabidopsis thaliana 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. *Plant Molecular Biology*, **2001**, 46, 263-75	4.6	31
34	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. *Plant Molecular Biology*, **2001**, 45, 93-105	4.6	14
33	The cleavable N-terminal domain of plant endopolygalacturonases from clade B may be involved in a regulated secretion mechanism. *Journal of Biological Chemistry*, **2001**, 276, 35297-304	5.4	32
32	Characterization of a functional soluble form of a Brassica napus membrane-anchored endo-1,4-beta-glucanase heterologously expressed in Pichia pastoris. *Plant Physiology*, **2001**, 127, 674-84	6.6	80
31	In vitro biosynthesis of 1,4-beta-galactan attached to rhamnogalacturonan I. *Planta*, **2000**, 210, 622-9	4.7	32
30	Remodelling Pectin Structure In Potato. *Developments in Plant Genetics and Breeding*, **2000**, 6, 245-256		8
29	Pectin engineering: modification of potato pectin by in vivo expression of an endo-1,4-beta-D-galactanase. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 7639-44	11.5	144
28	Ethylene biosynthesis in oilseed rape pods in relation to pod shatter. *Journal of Experimental Botany*, **1998**, 49, 829-838	7	57
27	The role of auxin in cell separation in the dehiscence zone of oilseed rape pods. *Journal of Experimental Botany*, **1997**, 48, 1423-1429	7	35
26	Isolation and characterisation of a pod dehiscence zone-specific polygalacturonase from Brassica napus. *Plant Molecular Biology*, **1996**, 31, 517-27	4.6	73
25	The role of cellulase in hormonal regulation of shoot morphogenesis in tobacco callus. *Planta*, **1995**, 196, 727-731	4.7	5
24	Cytokinins and leaf development in sweet pepper (Capsicum annuum L.) : I. Spatial distribution of endogenous cytokinins in relation to leaf growth. *Planta*, **1992**, 188, 70-7	4.7	6
23	Cytokinins and leaf development in sweet pepper (Capsicum annuum L.) : II. Sink metabolism in relation to cytokinin-promoted leaf expansion. *Planta*, **1992**, 188, 78-84	4.7	2

22	Immunoaffinity purification using monoclonal antibodies for the isolation of indole auxins from elongation zones of epicotyls of red-light-grown Alaska peas. *Planta*, **1992**, 188, 182-9	4.7	13
21	Cytokinins and leaf development in sweet pepper (Capsicum annuum L.). *Planta*, **1992**, 188, 70-77	4.7	36
20	Cytokinins and leaf development in sweet pepper (Capsicum annuum L.). *Planta*, **1992**, 188, 78-84	4.7	16
19	Effect of detergents on the H(+)-ATPase activity of inside-out and right-side-out plant plasma membrane vesicles. *Biochimica Et Biophysica Acta - Biomembranes*, **1990**, 1021, 133-40	3.8	79
18	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. *Plant Physiology*, **1989**, 89, 1071-8	6.6	16
17	Modulation of plasma membrane H+-ATPase from oat roots by lysophosphatidylcholine, free fatty acids and phospholipase A2. *Physiologia Plantarum*, **1988**, 74, 11-19	4.6	122
16	Immunoaffinity Purification of Indole-3-acetamide Using Monoclonal Antibodies. *Plant and Cell Physiology*, **1987**, 28, 937-945	4.9	13
15	Hormonal and Phenolic Changes Accompanying and Following UV-C Induced Stress in Spathiphyllum leaves. *Journal of Plant Physiology*, **1987**, 130, 291-306	3.6	3
14	Dehiscence137-163		1
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