

Bjrn E Christensen

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87
papers

3,786
citations

34
h-index

59
g-index

87
ext. papers

4,051
ext. citations

6.2
avg, IF

5.12
L-index

#	Paper	IF	Citations
87	Improved chitosan-mediated gene delivery based on easily dissociated chitosan polyplexes of highly defined chitosan oligomers. <i>Gene Therapy</i> , 2004 , 11, 1441-52	4	327
86	Periodate oxidation of polysaccharides for modification of chemical and physical properties. <i>Carbohydrate Research</i> , 2010 , 345, 1264-71	2.9	196
85	A study of the chain stiffness and extension of alginates, in vitro epimerized alginates, and periodate-oxidized alginates using size-exclusion chromatography combined with light scattering and viscosity detectors. <i>Biomacromolecules</i> , 2006 , 7, 2136-46	6.9	156
84	The role of extracellular polysaccharides in biofilms. <i>Journal of Biotechnology</i> , 1989 , 10, 181-202	3.7	153
83	Influence of chitosan structure on the formation and stability of DNA-chitosan polyelectrolyte complexes. <i>Biomacromolecules</i> , 2005 , 6, 3357-66	6.9	149
82	Preparation and characterisation of oligosaccharides produced by nitrous acid depolymerisation of chitosans. <i>Carbohydrate Research</i> , 2001 , 333, 137-44	2.9	135
81	Molecular weight determination of lignosulfonates by size-exclusion chromatography and multi-angle laser light scattering. <i>Journal of Chromatography A</i> , 2002 , 942, 191-9	4.5	120
80	Chapter 9:Alginates as biomaterials in tissue engineering. <i>Carbohydrate Chemistry</i> , 2011 , 227-258	3	114
79	Polyelectrolyte Complexes: Interactions between Lignosulfonate and Chitosan. <i>Biomacromolecules</i> , 2003 , 4, 232-9	6.9	105
78	Periodate oxidation of chitosans with different chemical compositions. <i>Carbohydrate Research</i> , 2005 , 340, 679-84	2.9	104
77	Antibacterial activity of chemically defined chitosans: influence of molecular weight, degree of acetylation and test organism. <i>International Journal of Food Microbiology</i> , 2011 , 148, 48-54	5.8	101
76	Preparative and analytical size-exclusion chromatography of chitosans. <i>Carbohydrate Polymers</i> , 1996 , 31, 253-261	10.3	89
75	Targeted gene delivery with trisaccharide-substituted chitosan oligomers in vitro and after lung administration in vivo. <i>Journal of Controlled Release</i> , 2006 , 115, 103-12	11.7	83
74	Role of the <i>Pseudomonas fluorescens</i> alginate lyase (AlgL) in clearing the periplasm of alginates not exported to the extracellular environment. <i>Journal of Bacteriology</i> , 2005 , 187, 8375-84	3.5	72
73	Tailoring of chitosans for gene delivery: novel self-branched glycosylated chitosan oligomers with improved functional properties. <i>Biomacromolecules</i> , 2008 , 9, 3268-76	6.9	71
72	Preparation and characterisation of chitosans with oligosaccharide branches. <i>Carbohydrate Research</i> , 2002 , 337, 2455-62	2.9	71
71	Comparison of Molecular Weight and Molecular Weight Distributions of Softwood and Hardwood Lignosulfonates. <i>Journal of Wood Chemistry and Technology</i> , 2003 , 23, 197-215	2	70

70	Swelling and partial solubilization of alginic acid gel beads in acidic buffer. <i>Carbohydrate Polymers</i> , 1996 , 29, 209-215	10.3	62
69	Chain stiffness and extension of chitosans and periodate oxidised chitosans studied by size-exclusion chromatography combined with light scattering and viscosity detectors. <i>Carbohydrate Polymers</i> , 2008 , 74, 559-565	10.3	59
68	Depolymerization of double-stranded xanthan by acid hydrolysis: characterization of partially degraded double strands and single-stranded oligomers released from the ordered structures. <i>Macromolecules</i> , 1993 , 26, 6111-6120	5.5	54
67	Periodate oxidized alginates: Depolymerization kinetics. <i>Carbohydrate Polymers</i> , 2011 , 86, 1595-1601	10.3	53
66	Conformation dependent depolymerisation kinetics of polysaccharides studied by viscosity measurements. <i>Carbohydrate Polymers</i> , 1994 , 24, 265-275	10.3	51
65	Static Light Scattering Studies on Xanthan in Aqueous Solutions. <i>Macromolecules</i> , 1996 , 29, 3491-3498	5.5	50
64	Chemical and biological characterization of pectin-like polysaccharides from the bark of the Malian medicinal tree <i>Cola cordifolia</i> . <i>Carbohydrate Polymers</i> , 2012 , 89, 259-68	10.3	47
63	Molecular weight, structure, and shape of oat (1 \rightarrow 3),(1 \rightarrow 4)-beta-D-glucan fractions obtained by enzymatic degradation with lichenase. <i>Biomacromolecules</i> , 2000 , 1, 584-91	6.9	45
62	Macromolecular characterisation of three barley β -glucan standards by size-exclusion chromatography combined with light scattering and viscometry: an inter-laboratory study. <i>Carbohydrate Polymers</i> , 2001 , 45, 11-22	10.3	44
61	Ionic gelled alginate foams: physical properties controlled by operational and macromolecular parameters. <i>Biomacromolecules</i> , 2012 , 13, 3703-10	6.9	43
60	Sphagnum--a pectin-like polymer isolated from Sphagnum moss can inhibit the growth of some typical food spoilage and food poisoning bacteria by lowering the pH. <i>Journal of Applied Microbiology</i> , 2009 , 106, 967-76	4.7	43
59	Determination of average degree of polymerisation and distribution of oligosaccharides in a partially acid-hydrolysed homopolysaccharide: a comparison of four experimental methods applied to mannuronan. <i>Journal of Chromatography A</i> , 2004 , 1026, 271-81	4.5	43
58	Molecular weight, structure and shape of oat (1 \rightarrow 3),(1 \rightarrow 4)- β -D-glucan fractions obtained by enzymatic degradation with (1 \rightarrow 4)- β -D-glucan 4-glucanohydrolase from <i>Trichoderma reesei</i> . <i>Carbohydrate Polymers</i> , 2001 , 46, 275-285	10.3	42
57	Acid Hydrolysis of β -D and β -Carrageenan in the Disordered and Ordered Conformations: Characterization of Partially Hydrolyzed Samples and Single-Stranded Oligomers Released from the Ordered Structures. <i>Macromolecules</i> , 1998 , 31, 1842-1851	5.5	41
56	The influence of the conformational state of β -D and β -carrageenan on the rate of acid hydrolysis. <i>Carbohydrate Research</i> , 1996 , 288, 175-187	2.9	41
55	Analysis of the conformational properties of β -D and β -carrageenan by size-exclusion chromatography combined with low-angle laser light scattering. <i>Biopolymers</i> , 1999 , 49, 71-80	2.2	39
54	Hydrolysis of xanthan in dilute acid: Effects on chemical composition, conformation, and intrinsic viscosity. <i>Carbohydrate Research</i> , 1991 , 214, 55-69	2.9	37
53	Comparison of chitosans with different molecular weights as possible wood preservatives. <i>Journal of Wood Science</i> , 2005 , 51, 387-394	2.4	33

52	Novel alginates prepared by independent control of chain stiffness and distribution of G-residues: Structure and gelling properties. <i>Carbohydrate Polymers</i> , 2009 , 77, 725-735	10.3	32
51	Flexibility and length of human bronchial mucin studied using low-shear viscometry, birefringence relaxation analysis, and electron microscopy. <i>Biopolymers</i> , 1985 , 24, 1683-704	2.2	32
50	A re-examination and partial characterisation of polysaccharides released by mild acid hydrolysis from the chlorite-treated leaves of <i>Sphagnum papillosum</i> . <i>Carbohydrate Polymers</i> , 2007 , 67, 104-115	10.3	30
49	A re-investigation of the Mark-Houwink-Sakurada parameters for cellulose in Cuen: a study based on size-exclusion chromatography combined with multi-angle light scattering and viscometry. <i>Journal of Chromatography A</i> , 2013 , 1281, 32-7	4.5	29
48	The <i>Azotobacter vinelandii</i> AlgE mannuronan C-5-epimerase family is essential for the in vivo control of alginate monomer composition and for functional cyst formation. <i>Environmental Microbiology</i> , 2008 , 10, 1760-70	5.2	29
47	Identification and characterization of an <i>Azotobacter vinelandii</i> type I secretion system responsible for export of the AlgE-type mannuronan C-5-epimerases. <i>Journal of Bacteriology</i> , 2006 , 188, 5551-60	3.5	29
46	Free-radical degradation of triple-stranded scleroglucan by hydrogen peroxide and ferrous ions. <i>Carbohydrate Polymers</i> , 1998 , 37, 41-48	10.3	28
45	Application of high-performance anion-exchange chromatography with pulsed amperometric detection and statistical analysis to study oligosaccharide distributions—a complementary method to investigate the structure and some properties of alginates. <i>Journal of Chromatography A</i> , 2005 , 1099, 59-68	4.5	28
44	Probing macromolecular architectures of nanosized cyclic structures of (1→3)-beta-D-glucans by AFM and SEC-MALLS. <i>Carbohydrate Research</i> , 2005 , 340, 971-9	2.9	28
43	Ionically gelled alginate foams: physical properties controlled by type, amount and source of gelling ions. <i>Carbohydrate Polymers</i> , 2014 , 99, 249-56	10.3	27
42	Sclerox-chitosan co-gels: Effects of charge density on swelling of gels in ionic aqueous solution and in poor solvents, and on the rehydration of dried gels. <i>Polymer Gels and Networks</i> , 1998 , 6, 471-492		24
41	Degradation of double-stranded xanthan by hydrogen peroxide in the presence of ferrous ions: comparison to acid hydrolysis. <i>Carbohydrate Research</i> , 1996 , 280, 85-99	2.9	24
40	Inhibition of <i>Bacillus cereus</i> spore outgrowth and multiplication by chitosan. <i>International Journal of Food Microbiology</i> , 2011 , 149, 218-25	5.8	22
39	Preparation and characterization of branched chitosans. <i>Carbohydrate Polymers</i> , 2011 , 83, 1558-1564	10.3	22
38	Development of an artificial biofilm to study the effects of a single microcolony on mass transport. <i>Journal of Microbiological Methods</i> , 1996 , 26, 161-169	2.8	22
37	Temperature-induced conformational transition in xanthans with partially hydrolyzed side chains. <i>Biopolymers</i> , 1993 , 33, 151-61	2.2	22
36	Effect of mannuronate content and molecular weight of alginates on intestinal immunological activity through Peyer's patch cells of C3H/HeJ mice. <i>Carbohydrate Polymers</i> , 2011 , 83, 629-634	10.3	20
35	Degradation of multistranded polymers: effects of interstrand stabilization in xanthan and scleroglucan studied by a Monte Carlo method. <i>Macromolecules</i> , 1992 , 25, 2209-2214	5.5	20

34	Gelation of periodate oxidised scleroglucan (scleraldehyde). <i>Carbohydrate Polymers</i> , 2001 , 46, 241-248	10.3	19
33	Carboxylation of scleroglucan for controlled crosslinking by heavy metal ions. <i>Carbohydrate Polymers</i> , 1995 , 27, 5-11	10.3	18
32	The localisation of pectin in Sphagnum moss leaves and its role in preservation. <i>Carbohydrate Polymers</i> , 2012 , 87, 1326-1332	10.3	17
31	Degradation of cellulosic insulation in power transformers: a SEC/MALLS study of artificially aged transformer papers. <i>Cellulose</i> , 2013 , 20, 2003-2011	5.5	16
30	Macroporous, monodisperse particles and their application in aqueous size exclusion chromatography of high molecular weight polysaccharides. <i>Carbohydrate Polymers</i> , 1996 , 29, 217-223	10.3	16
29	An evaluation of tritium and fluorescence labelling combined with multi-detector SEC for the detection of carbonyl groups in polysaccharides. <i>Carbohydrate Polymers</i> , 2009 , 76, 196-205	10.3	15
28	Relationship between energetic stress and pro-apoptotic/cytoprotective kinase mechanisms in intestinal preservation. <i>Surgery</i> , 2007 , 141, 795-803	3.6	15
27	Resistance of biofilms containing alginate-producing bacteria to disintegration by an alginate degrading enzyme (Algl). <i>Biofouling</i> , 2001 , 17, 203-210	3.3	15
26	Polysaccharide research in Trondheim. <i>Carbohydrate Polymers</i> , 1990 , 13, 239-255	10.3	15
25	Inter-laboratory evaluation of SEC-post-column calcofluor for determination of the weight-average molar mass of cereal β -glucan. <i>Carbohydrate Polymers</i> , 2015 , 124, 254-64	10.3	14
24	Effects of physical and chemical treatments on the molecular weight and degradation of alginate-hydroxyapatite composites. <i>Macromolecular Bioscience</i> , 2014 , 14, 872-80	5.5	14
23	Study of oxidation and hydrolysis of oil impregnated paper insulation for transformers using a microcalorimeter. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2011 , 18, 2059-2068	2.3	14
22	Chemical characterization and complement fixation of pectins from <i>Cola cordifolia</i> leaves. <i>Carbohydrate Polymers</i> , 2014 , 102, 472-80	10.3	13
21	Release of disordered xanthan oligomers upon partial acid hydrolysis of double-stranded xanthan. <i>Food Hydrocolloids</i> , 1996 , 10, 83-89	10.6	13
20	Periodate oxidation and macromolecular compaction of hyaluronan. <i>Pure and Applied Chemistry</i> , 2013 , 85, 1893-1900	2.1	12
19	Calorimetric and light scattering study of interactions and macromolecular properties of native and hydrophobically modified hyaluronan. <i>Carbohydrate Polymers</i> , 2010 , 81, 855-863	10.3	12
18	Interactions of polysaccharides extracted by mild acid hydrolysis from the leaves of <i>Sphagnum papillosum</i> with either phenylhydrazine, o-phenylenediamine and its oxidation products or collagen. <i>Carbohydrate Polymers</i> , 2008 , 71, 550-558	10.3	12
17	In situ gelation for cell immobilization and culture in alginate foam scaffolds. <i>Tissue Engineering - Part A</i> , 2014 , 20, 600-10	3.9	11

16	Cross-linking and depolymerisation of gamma-irradiated fish gelatin and porcine gelatin studied by SEC-MALLS and SDS-PAGE: a comparative study. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010 , 21, 877-92	3.5	11
15	Higher order structures of a bioactive, water-soluble (1->3)-D-glucan derived from <i>Saccharomyces cerevisiae</i> . <i>Carbohydrate Polymers</i> , 2013 , 92, 1026-32	10.3	10
14	SIZE EXCLUSION CHROMATOGRAPHY OF CELLULOSE DISSOLVED IN LiCl/DMAC USING MACROPOROUS MONODISPERSE POLY(STYRENE-CO-DIVINYLBENZENE) PARTICLES. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2000 , 23, 2277-2288	1.3	9
13	Long-term storage of xanthan in seawater at elevated temperature: physical dimensions and chemical composition of degradation products. <i>International Journal of Biological Macromolecules</i> , 1989 , 11, 137-44	7.9	9
12	Transcriptional responses of <i>Bacillus cereus</i> towards challenges with the polysaccharide chitosan. <i>PLoS ONE</i> , 2011 , 6, e24304	3.7	9
11	Molecular weight dependency on the production of the TNF stimulated by fractions of rye (1->3),(1->4)-beta-D-glucan. <i>Scandinavian Journal of Immunology</i> , 2000 , 52, 584-7	3.4	9
10	Preparation of high purity monodisperse oligosaccharides derived from mannuronan by size-exclusion chromatography followed by semi-preparative high-performance anion-exchange chromatography with pulsed amperometric detection. <i>Carbohydrate Research</i> , 2009 , 344, 255-9	2.9	8
9	Metastable, Partially Depolymerized Xanthans and Rearrangements toward Perfectly Matched Duplex Structures. <i>Macromolecules</i> , 1996 , 29, 2939-2944	5.5	8
8	Dependence of the content of unsubstituted (cellulosic) regions in prehydrolysed xanthans on the rate of hydrolysis by <i>Trichoderma reesei</i> endoglucanase. <i>International Journal of Biological Macromolecules</i> , 1996 , 18, 93-9	7.9	7
7	A study of bioactive, branched (1->3)-D-glucans in dimethylacetamide/LiCl and dimethyl sulphoxide/LiCl using size-exclusion chromatography with multi-angle light scattering detection. <i>Journal of Chromatography A</i> , 2013 , 1305, 109-13	4.5	6
6	Physicochemical studies on xylinan (acetan). II. Characterization by static light scattering. <i>Biopolymers</i> , 1998 , 39, 721-728	2.2	6
5	Influence of amino acids, buffers, and pH on the irradiation-induced degradation of alginates. <i>Biomacromolecules</i> , 2014 , 15, 4590-7	6.9	5
4	Chain length distribution and aggregation of branched (1->3)-D-glucans from <i>Saccharomyces cerevisiae</i> . <i>Carbohydrate Polymers</i> , 2012 , 90, 1092-9	10.3	5
3	The role of side-chains in the Cr ³⁺ -induced gelation of xanthan and xylinan (acetan) variants. <i>Carbohydrate Polymers</i> , 1994 , 25, 25-29	10.3	5
2	Alginate-based diblock polymers: preparation, characterization and Ca-induced self-assembly. <i>Polymer Chemistry</i> ,	4.9	4
1	Comment on "conformational changes and aggregation of alginic acid as determined by fluorescence correlation spectroscopy". <i>Biomacromolecules</i> , 2007 , 8, 3279; discussion 3280	6.9	3