

Bjrn T Stokke

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144
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6,014
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avg, IF

5.56
L-index

#	Paper	IF	Citations
144	Evidence for egg-box-compatible interactions in calcium-alginate gels from fiber X-ray diffraction. <i>Biomacromolecules</i> , 2007 , 8, 2098-103	6.9	330
143	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
142	Small-Angle X-ray Scattering and Rheological Characterization of Alginate Gels. 1. Ca ²⁺ Alginate Gels. <i>Macromolecules</i> , 2000 , 33, 1853-1863	5.5	278
141	The molecular basis of erythrocyte shape. <i>Science</i> , 1986 , 234, 1217-23	33.3	270
140	Polyelectrolyte complex formation using alginate and chitosan. <i>Carbohydrate Polymers</i> , 2008 , 74, 813-821	10.3	255
139	The cytokine stimulating activity of (1 \rightarrow 3)-beta-D-glucans is dependent on the triple helix conformation. <i>Carbohydrate Research</i> , 2000 , 329, 587-96	2.9	186
138	Higher order structure of (1,3)-beta-D-glucans and its influence on their biological activities and complexation abilities. <i>Biopolymers</i> , 2008 , 89, 310-21	2.2	134
137	Distribution of uronate residues in alginate chains in relation to alginate gelling properties. <i>Macromolecules</i> , 1991 , 24, 4637-4645	5.5	131
136	Structural analysis of chitosan mediated DNA condensation by AFM: influence of chitosan molecular parameters. <i>Biomacromolecules</i> , 2004 , 5, 928-36	6.9	121
135	Similarities and differences between alginic acid gels and ionically crosslinked alginate gels. <i>Food Hydrocolloids</i> , 2006 , 20, 170-175	10.6	97
134	Determination of glucose levels using a functionalized hydrogel-optical fiber biosensor: toward continuous monitoring of blood glucose in vivo. <i>Analytical Chemistry</i> , 2009 , 81, 3630-6	7.8	95
133	Effects of molecular weight and elastic segment flexibility on syneresis in Ca-alginate gels. <i>Food Hydrocolloids</i> , 2001 , 15, 485-490	10.6	81
132	Biochemical analysis of the processive mechanism for epimerization of alginate by mannanuronic C-5 epimerase AlgE4. <i>Biochemical Journal</i> , 2004 , 381, 155-64	3.8	78
131	Small-angle X-ray scattering and rheological characterization of alginate gels. 3. Alginic acid gels. <i>Biomacromolecules</i> , 2003 , 4, 1661-8	6.9	78
130	Nanoparticle-Hydrogel Composites: From Molecular Interactions to Macroscopic Behavior. <i>Polymers</i> , 2019 , 11,	4.5	74
129	Glucose sensors based on a responsive gel incorporated as a Fabry-Perot cavity on a fiber-optic readout platform. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2034-9	11.8	74
128	An antitumor, branched (1 \rightarrow 3)-beta-D-glucan from a water extract of fruiting bodies of <i>Cryptopus volvatus</i> . <i>Carbohydrate Research</i> , 1994 , 263, 111-21	2.9	74

127	The recombinant <i>Azotobacter vinelandii</i> mannuronan C-5-epimerase AlgE4 epimerizes alginate by a nonrandom attack mechanism. <i>Journal of Biological Chemistry</i> , 1999 , 274, 12316-22	5.4	69
126	The molecular size and shape of xanthan, xylinan, bronchial mucin, alginate, and amylose as revealed by electron microscopy. <i>Carbohydrate Research</i> , 1987 , 160, 13-28	2.9	67
125	Responsive hydrogels for label-free signal transduction within biosensors. <i>Sensors</i> , 2010 , 10, 4381-409	3.8	66
124	Glycosaminoglycan destabilization of DNA-chitosan polyplexes for gene delivery depends on chitosan chain length and GAG properties. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005 , 1721, 44-54	4	65
123	Influence of oligoguluronates on alginate gelation, kinetics, and polymer organization. <i>Biomacromolecules</i> , 2007 , 8, 2388-97	6.9	64
122	Analysis of Compacted Semiflexible Polyanions Visualized by Atomic Force Microscopy: Influence of Chain Stiffness on the Morphologies of Polyelectrolyte Complexes \square <i>Journal of Physical Chemistry B</i> , 2003 , 107, 8172-8180	3.4	64
121	Evidence for age-dependent in vivo conformational rearrangement within $\text{A}\beta$ amyloid deposits. <i>ACS Chemical Biology</i> , 2013 , 8, 1128-33	4.9	63
120	The human erythrocyte membrane skeleton may be an ionic gel. I. Membrane mechanochemical properties. <i>European Biophysics Journal</i> , 1986 , 13, 203-18	1.9	63
119	Supercoiling in circular triple-helical polysaccharides. <i>Macromolecules</i> , 1991 , 24, 6349-6351	5.5	60
118	Distribution of uronate residues in alginate chains in relation to alginate gelling properties \square : Enrichment of β -mannuronic acid and depletion of β -guluronic acid in sol fraction. <i>Carbohydrate Polymers</i> , 1993 , 21, 39-46	10.3	58
117	Electron microscopic study of single-and double-stranded xanthan. <i>International Journal of Biological Macromolecules</i> , 1986 , 8, 217-225	7.9	55
116	The relation of apple texture with cell wall nanostructure studied using an atomic force microscope. <i>Carbohydrate Polymers</i> , 2013 , 92, 128-37	10.3	54
115	Determination of swelling of responsive gels with nanometer resolution. Fiber-optic based platform for hydrogels as signal transducers. <i>Analytical Chemistry</i> , 2008 , 80, 5086-93	7.8	54
114	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
113	DNA-polycation complexation and polyplex stability in the presence of competing polyanions. <i>Biopolymers</i> , 2005 , 77, 86-97	2.2	53
112	Gelation of xanthan with trivalent metal ions. <i>Carbohydrate Polymers</i> , 1992 , 18, 243-251	10.3	52
111	Macrocyclization of polysaccharides visualized by electron microscopy. <i>International Journal of Biological Macromolecules</i> , 1993 , 15, 63-8	7.9	51
110	Conformation dependent depolymerisation kinetics of polysaccharides studied by viscosity measurements. <i>Carbohydrate Polymers</i> , 1994 , 24, 265-275	10.3	51

109	Metastable and stable states of xanthan polyelectrolyte complexes studied by atomic force microscopy. <i>Biopolymers</i> , 2004 , 74, 199-213	2.2	46
108	Mode of action of recombinant <i>Azotobacter vinelandii</i> mannuronan C-5 epimerases AlgE2 and AlgE4. <i>Biopolymers</i> , 2002 , 63, 77-88	2.2	46
107	Mode of action of chitin deacetylase from <i>Mucor rouxii</i> on partially N-acetylated chitosans. <i>Carbohydrate Research</i> , 1998 , 311, 71-78	2.9	45
106	Characterisation of bacterial polysaccharides: steps towards single-molecular studies. <i>Carbohydrate Research</i> , 2003 , 338, 2459-75	2.9	45
105	Small-angle X-ray scattering and rheological characterization of alginate gels. 2. Time-resolved studies on ionotropic gels. <i>Journal of Molecular Structure</i> , 2000 , 554, 21-34	3.4	43
104	Single-molecular pair unbinding studies of Mannuronan C-5 epimerase AlgE4 and its polymer substrate. <i>Biomacromolecules</i> , 2004 , 5, 1288-95	6.9	42
103	Versatile, cell and chip friendly method to gel alginate in microfluidic devices. <i>Lab on A Chip</i> , 2016 , 16, 3718-27	7.2	42
102	Acid Hydrolysis of β and γ 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
101	The influence of charge density of chitosan in the compaction of the polyanions DNA and xanthan. <i>Biomacromolecules</i> , 2007 , 8, 1124-30	6.9	40
100	Polyelectrolyte and antipolyelectrolyte effects in swelling of polyampholyte and polyzwitterionic charge balanced and charge offset hydrogels. <i>European Polymer Journal</i> , 2014 , 53, 65-74	5.2	39
99	Development of an oligonucleotide functionalized hydrogel integrated on a high resolution interferometric readout platform as a label-free macromolecule sensing device. <i>Biomacromolecules</i> , 2009 , 10, 1619-26	6.9	39
98	Crystal Structure of Cellulose Triacetate I. <i>Macromolecules</i> , 2004 , 37, 4547-4553	5.5	39
97	Toehold of dsDNA exchange affects the hydrogel swelling kinetics of a polymer-dsDNA hybrid hydrogel. <i>Soft Matter</i> , 2011 , 7, 1741-1746	3.6	38
96	Rheology of xanthan and scleroglucan in synthetic seawater. <i>Carbohydrate Polymers</i> , 1992 , 17, 209-220	10.3	36
95	Spectrin, human erythrocyte shapes, and mechanochemical properties. <i>Biophysical Journal</i> , 1986 , 49, 319-27	2.9	36
94	Logic swelling response of DNA-polymer hybrid hydrogel. <i>Soft Matter</i> , 2011 , 7, 4615	3.6	35
93	In vitro single-cell dissection revealing the interior structure of cable bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 8517-8522	11.5	30
92	Polyelectrolyte layer interpenetration and swelling of alginate-chitosan multilayers studied by dual wavelength reflection interference contrast microscopy. <i>Carbohydrate Polymers</i> , 2008 , 71, 672-681	10.3	29

91	Sequence specificities for lysozyme depolymerization of partially N-acetylated chitosans. <i>Canadian Journal of Chemistry</i> , 1995 , 73, 1972-1981	0.9	29
90	Free-radical degradation of triple-stranded scleroglucan by hydrogen peroxide and ferrous ions. <i>Carbohydrate Polymers</i> , 1998 , 37, 41-48	10.3	28
89	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
88	CD14, TLR4 and TRAM Show Different Trafficking Dynamics During LPS Stimulation. <i>Traffic</i> , 2015 , 16, 677-90	5.7	27
87	Development and application of a model for chitosan hydrolysis by a family 18 chitinase. <i>Biopolymers</i> , 2005 , 77, 273-85	2.2	27
86	Comparison of scanning tunnelling microscopy and transmission electron microscopy image data of a microbial polysaccharide. <i>Ultramicroscopy</i> , 1993 , 48, 197-201	3.1	27
85	Oligogulonate induced competitive displacement of mucin–alginate interactions: relevance for mucolytic function. <i>Soft Matter</i> , 2012 , 8, 8413	3.6	26
84	Gelation kinetics of scleraldehyde–chitosan co-gels. <i>Polymer Gels and Networks</i> , 1998 , 6, 113-135		26
83	Competitive ligand exchange of crosslinking ions for ionotropic hydrogel formation. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 6175-6182	7.3	25
82	Single-molecule pair studies of the interactions of the alpha-GalNAc (Tn-antigen) form of porcine submaxillary mucin with soybean agglutinin. <i>Biopolymers</i> , 2009 , 91, 719-28	2.2	24
81	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
80	Structural stability of (1→3)-D-glucan macrocycles. <i>Carbohydrate Polymers</i> , 2001 , 44, 113-121	10.3	24
79	Toroids of stiff polyelectrolytes. <i>Current Opinion in Colloid and Interface Science</i> , 2005 , 10, 16-21	7.6	23
78	Direct Determination of Chitosan–Mucin Interactions Using a Single-Molecule Strategy: Comparison to Alginate–Mucin Interactions. <i>Polymers</i> , 2015 , 7, 161-185	4.5	22
77	Predicted influence of monomer sequence distribution and acetylation on the extension of naturally occurring alginates. <i>Carbohydrate Polymers</i> , 1993 , 22, 57-66	10.3	22
76	Single molecule investigation of the onset and minimum size of the calcium-mediated junction zone in alginate. <i>Carbohydrate Polymers</i> , 2016 , 148, 52-60	10.3	22
75	PEGylated chitosan complexes DNA while improving polyplex colloidal stability and gene transfection efficiency. <i>Carbohydrate Polymers</i> , 2013 , 94, 436-43	10.3	21
74	Higher order structure of short immunostimulatory oligonucleotides studied by atomic force microscopy. <i>Ultramicroscopy</i> , 2010 , 110, 689-93	3.1	21

73	Controlled gelation of xanthan by trivalent chronic ions. <i>Carbohydrate Polymers</i> , 1988 , 8, 245-256	10.3	21
72	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
71	Thermal stability and chain conformational studies of xanthan at different ionic strengths. <i>Carbohydrate Polymers</i> , 1987 , 7, 421-433	10.3	20
70	Colloidal gold and colloidal gold labelled wheat germ agglutinin as molecular probes for identification in mucin/chitosan complexes. <i>Carbohydrate Polymers</i> , 1997 , 33, 91-99	10.3	19
69	Gelation of periodate oxidised scleroglucan (scleraldehyde). <i>Carbohydrate Polymers</i> , 2001 , 46, 241-248	10.3	19
68	Conformation of (2-->1)-beta-D-fructan in aqueous solution. <i>International Journal of Biological Macromolecules</i> , 1994 , 16, 313-7	7.9	19
67	Determination of molecular parameters of linear and circular scleroglucan coexisting in ternary mixtures using light scattering. <i>Biomacromolecules</i> , 2006 , 7, 858-65	6.9	18
66	Carboxylation of scleroglucan for controlled crosslinking by heavy metal ions. <i>Carbohydrate Polymers</i> , 1995 , 27, 5-11	10.3	18
65	Self-Coacervation of a Silk-Like Protein and Its Use As an Adhesive for Cellulosic Materials. <i>ACS Macro Letters</i> , 2018 , 7, 1120-1125	6.6	18
64	Enhanced self-association of mucins possessing the T and Tn carbohydrate cancer antigens at the single-molecule level. <i>Biomacromolecules</i> , 2012 , 13, 1400-9	6.9	17
63	Potentialiation of histamine release by Microfungal (1-->3)- and (1-->6)-beta-D-glucans. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2007 , 101, 455-8	3.1	17
62	Scleroglucan gelation by in situ neutralization of the alkaline solution. <i>Biomacromolecules</i> , 2003 , 4, 914-219	17	
61	The human erythrocyte membrane skeleton may be an ionic gel. III. Micropipette aspiration of unswollen erythrocytes. <i>Journal of Theoretical Biology</i> , 1986 , 123, 205-11	2.3	16
60	Mapping enzymatic functionalities of mannanuronic C-5 epimerases and their modular units by dynamic force spectroscopy. <i>Carbohydrate Research</i> , 2005 , 340, 2782-95	2.9	15
59	Bioresponsive DNA-co-polymer hydrogels for fabrication of sensors. <i>Current Opinion in Colloid and Interface Science</i> , 2016 , 26, 1-8	7.6	15
58	Single molecular pair interactions between hydrophobically modified hydroxyethyl cellulose and amylose determined by dynamic force spectroscopy. <i>Langmuir</i> , 2009 , 25, 10174-82	4	14
57	Small-angle X-ray scattering and rheological characterization of alginate gels. <i>Macromolecular Symposia</i> , 1997 , 120, 91-101	0.8	14
56	Local structure of Ca(2+) induced hydrogels of alginate-oligogulonate blends determined by small-angle-X-ray scattering. <i>Carbohydrate Polymers</i> , 2016 , 152, 532-540	10.3	14

55	Release of disordered xanthan oligomers upon partial acid hydrolysis of double-stranded xanthan. <i>Food Hydrocolloids</i> , 1996 , 10, 83-89	10.6	13
54	Isothermal titration calorimetry study of the polyelectrolyte complexation of xanthan and chitosan samples of different degree of polymerization. <i>Biopolymers</i> , 2012 , 97, 1-10	2.2	12
53	Structure-function relationships in glycopolymers: effects of residue sequences, duplex, and triplex organization. <i>Biopolymers</i> , 2013 , 99, 757-71	2.2	11
52	Structure and stability of polynucleotide-(1,3)- β -D-glucan complexes. <i>Carbohydrate Polymers</i> , 2009 , 76, 389-399	10.3	11
51	Numerical model for alginate block specificity of mannuronate lyase from <i>Haliotis</i> . <i>Carbohydrate Research</i> , 1994 , 260, 83-98	2.9	11
50	Pregel cluster formation in gelling polysaccharides visualized by electron microscopy. <i>Polymer Gels and Networks</i> , 1994 , 2, 173-190		11
49	Tn and STn are members of a family of carbohydrate tumor antigens that possess carbohydrate-carbohydrate interactions. <i>Glycobiology</i> , 2018 , 28, 437-442	5.8	10
48	Higher order structures of a bioactive, water-soluble (1 \rightarrow 3)- β -D-glucan derived from <i>Saccharomyces cerevisiae</i> . <i>Carbohydrate Polymers</i> , 2013 , 92, 1026-32	10.3	10
47	Impregnation of weakly charged anionic microhydrogels with cationic polyelectrolytes and their swelling properties monitored by a high resolution interferometric technique. Transformation from a polyelectrolyte to polyampholyte hydrogel. <i>European Polymer Journal</i> , 2012 , 48, 1949-1959	5.2	10
46	Cyclodextrin triggered dimensional changes of polysaccharide nanogel integrated hydrogels at nanometer resolution. <i>Soft Matter</i> , 2013 , 9, 5178	3.6	10
45	Alginate Oligoguluronates as a Tool for Tailoring Properties of Ca-Alginate Gels. <i>Macromolecular Symposia</i> , 2010 , 291-292, 345-353	0.8	9
44	Nanosopic and photonic ultrastructural characterization of two distinct insulin amyloid states. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 1461-80	6.3	9
43	Interferometric characterization of swelling of covalently crosslinked alginate gel and changes associated with polymer impregnation. <i>Carbohydrate Polymers</i> , 2010 , 80, 828-832	10.3	9
42	Quantitative analysis of atomic force microscopy topographs of biopolymer multilayers: Surface structure and polymer assembly modes. <i>Thin Solid Films</i> , 2008 , 516, 7770-7776	2.2	9
41	Electrostatically Self-Assembled Multilayers of Chitosan and Xanthan Studied by Atomic Force Microscopy and Micro-Interferometry. <i>Macromolecular Symposia</i> , 2005 , 227, 161-172	0.8	9
40	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
39	Nanoindentation and finite element modelling of chitosan-alginate multilayer coated hydrogels. <i>Soft Matter</i> , 2016 , 12, 7338-49	3.6	9
38	Novel imaging technologies for characterization of microbial extracellular polysaccharides. <i>Frontiers in Microbiology</i> , 2015 , 6, 525	5.7	8

37	Interactions of mucins with the Tn or Sialyl Tn cancer antigens including MUC1 are due to GalNAc-GalNAc interactions. <i>Glycobiology</i> , 2016 , 26, 1338-1350	5.8	8
36	Swelling Dynamics of a DNA-Polymer Hybrid Hydrogel Prepared Using Polyethylene Glycol as a Porogen. <i>Gels</i> , 2015 , 1, 219-234	4.2	8
35	Metastable, Partially Depolymerized Xanthans and Rearrangements toward Perfectly Matched Duplex Structures. <i>Macromolecules</i> , 1996 , 29, 2939-2944	5.5	8
34	P265 the potential of chitosan as mucoadhesive drug carrier: Studies on its interaction with pig gastric mucin on a molecular level. <i>European Journal of Pharmaceutical Sciences</i> , 1994 , 2, 185	5.1	8
33	Microarrays for the study of compartmentalized microorganisms in alginate microbeads and (W/O/W) double emulsions. <i>RSC Advances</i> , 2016 , 6, 114830-114842	3.7	8
32	Effects of added oligoguluronate on mechanical properties of Ca - alginate - oligoguluronate hydrogels depend on chain length of the alginate. <i>Carbohydrate Polymers</i> , 2016 , 147, 234-242	10.3	8
31	Delaying cluster growth of ionotropic induced alginate gelation by oligoguluronate. <i>Carbohydrate Polymers</i> , 2015 , 133, 126-34	10.3	7
30	Myeloma-derived extracellular vesicles mediate HGF/c-Met signaling in osteoblast-like cells. <i>Experimental Cell Research</i> , 2019 , 383, 111490	4.2	7
29	Potentials of bionanotechnology in the study and manufacturing of self-assembled biopolymer complexes and gels. <i>Food Hydrocolloids</i> , 2008 , 22, 2-11	10.6	7
28	Scleroglucan gel volume changes in dimethylsulphoxide/water and alkaline solutions are partly caused by polymer chain conformational transitions. <i>Carbohydrate Polymers</i> , 1999 , 39, 249-255	10.3	7
27	Interactions between the breast cancer-associated MUC1 mucins and C-type lectin characterized by optical tweezers. <i>PLoS ONE</i> , 2017 , 12, e0175323	3.7	7
26	Small angle x-ray scattering study of local structure and collapse transition of (1,3)-beta-D-glucan-chitosan gels. <i>Journal of Chemical Physics</i> , 2006 , 125, 054908	3.9	6
25	Influence of Aqueous Solvation on Side Chain-Backbone Interaction in Comblike Branched Bacterial Polysaccharides. <i>Macromolecules</i> , 1994 , 27, 1124-1135	5.5	6
24	Energy Landscape of Alginate-Epimerase Interactions Assessed by Optical Tweezers and Atomic Force Microscopy. <i>PLoS ONE</i> , 2015 , 10, e0141237	3.7	6
23	Fabrication of monodisperse alginate microgel beads by microfluidic picoinjection: a chelate free approach. <i>Lab on A Chip</i> , 2021 , 21, 2232-2243	7.2	6
22	The Characterisation and Quantification of Immobilised Concanavalin A on Quartz Surfaces Based on The Competitive Binding to Glucose and Fluorescent Labelled Dextran. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 318	2.6	5
21	Single molecule study of heterotypic interactions between mucins possessing the Tn cancer antigen. <i>Glycobiology</i> , 2015 , 25, 524-34	5.8	5
20	Swelling of a hemi-ellipsoidal ionic hydrogel for determination of material properties of deposited thin polymer films: an inverse finite element approach. <i>Soft Matter</i> , 2013 , 9, 5815	3.6	5

19	Direct measurement of the interaction force between immunostimulatory CpG-DNA and TLR9 fusion protein. <i>Journal of Molecular Recognition</i> , 2012 , 25, 74-81	2.6	5
18	High resolution interferometry as a tool for characterization of swelling of weakly charged hydrogels subjected to amphiphile and cyclodextrin exposure. <i>Journal of Colloid and Interface Science</i> , 2013 , 390, 282-90	9.3	5
17	The fluid phase of morsellized bone: characterization of viscosity and chemical composition. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2008 , 1, 199-205	4.1	5
16	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
15	A practical, high-resolution, microcomputer-based method for the analysis of relaxation data exhibiting multicomponent exponential decays. <i>International Journal of Bio-medical Computing</i> , 1985 , 16, 35-57		5
14	Impact of Silanization Parameters and Antibody Immobilization Strategy on Binding Capacity of Photonic Ring Resonators. <i>Sensors</i> , 2020 , 20,	3.8	4
13	Donnan Contribution and Specific Ion Effects in Swelling of Cationic Hydrogels are Additive: Combined High-Resolution Experiments and Finite Element Modeling. <i>Gels</i> , 2020 , 6,	4.2	4
12	Sliding Contact Dynamic Force Spectroscopy Method for Interrogating Slowly Forming Polymer Cross-Links. <i>Langmuir</i> , 2016 , 32, 12814-12822	4	4
11	Optical rotation of dilute aqueous xanthan solutions at elevated hydrostatic pressure. <i>Journal of Applied Polymer Science</i> , 1991 , 42, 2063-2071	2.9	3
10	A computerized low-shear pendulum viscoelastometer, stress-relaxation, shear creep, and dynamic elastic moduli measurements of soft biogels. <i>International Journal of Bio-medical Computing</i> , 1985 , 17, 215-26		3
9	Swelling, mechanical properties and effect of annealing of scleroglucan gels. <i>Carbohydrate Polymers</i> , 2005 , 60, 363-378	10.3	2
8	Transient electric birefringence study of rod-like triple-helical polysaccharide schizophyllan. <i>Carbohydrate Polymers</i> , 1996 , 29, 277-283	10.3	2
7	Toehold Length of Target ssDNA Affects Its Reaction-Diffusion Behavior in DNA-Responsive DNA-Acrylamide Hydrogels. <i>Biomacromolecules</i> , 2020 , 21, 1687-1699	6.9	2
6	On the Determination of Mechanical Properties of Aqueous Microgels-Towards High-Throughput Characterization. <i>Gels</i> , 2021 , 7,	4.2	2
5	Recovering fluorophore concentration profiles from confocal images near lateral refractive index step changes. <i>Journal of Biomedical Optics</i> , 2016 , 21, 126014	3.5	2
4	An electrophoretic device concentrating charged macromolecules to a predetermined final solution volume. <i>Analytical Biochemistry</i> , 1985 , 148, 527-32	3.1	1
3	Signal Amplification of a Gravimetric Glucose Biosensor Based on the Concanavalin A-Dextran Affinity Assay. <i>IEEE Sensors Journal</i> , 2021 , 21, 4391-4404	4	1
2	A Titratable Cell Lysis-on-Demand System for Droplet-Compartmentalized Ultrahigh-Throughput Screening in Functional Metagenomics and Directed Evolution. <i>ACS Synthetic Biology</i> , 2021 , 10, 1882-1894	5.7	0

- 1 Polymer sequencing by molecular machines: a framework for predicting the resolving power of a sliding contact force spectroscopy sequencing method. *Nanoscale*, **2017**, 9, 15089-15097

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