

Stephen E Harding

List of Publications by Year in descending order

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334
papers

10,379
citations

28242

55
h-index

62565

80
g-index

346
all docs

346
docs citations

346
times ranked

9589
citing authors

#	ARTICLE	IF	CITATIONS
1	The intrinsic viscosity of biological macromolecules. Progress in measurement, interpretation and application to structure in dilute solution. <i>Progress in Biophysics and Molecular Biology</i> , 1997, 68, 207-262.	1.4	299
2	Genetic improvement of tomato by targeted control of fruit softening. <i>Nature Biotechnology</i> , 2016, 34, 950-952.	9.4	251
3	The CRF1 receptor antagonist antalarmin attenuates yohimbine-induced increases in operant alcohol self-administration and reinstatement of alcohol seeking in rats. <i>Psychopharmacology</i> , 2007, 195, 345-355.	1.5	179
4	Polysaccharide drug delivery systems based on pectin and chitosan. <i>Biotechnology and Genetic Engineering Reviews</i> , 2010, 27, 257-284.	2.4	174
5	On the hydrodynamic analysis of macromolecular conformation. <i>Biophysical Chemistry</i> , 1995, 55, 69-93.	1.5	163
6	Dynamic light scattering as a relative tool for assessing the molecular integrity and stability of monoclonal antibodies. <i>Biotechnology and Genetic Engineering Reviews</i> , 2007, 24, 117-128.	2.4	161
7	Hydrodynamic characterization of chitosans varying in degree of acetylation. <i>International Journal of Biological Macromolecules</i> , 1993, 15, 113-117.	3.6	134
8	The effect of the degree of esterification on the hydrodynamic properties of citrus pectin. <i>Food Hydrocolloids</i> , 2000, 14, 227-235.	5.6	130
9	Atomic force microscopy of gastric mucin and chitosan mucoadhesive systems. <i>Biochemical Journal</i> , 2000, 348, 557-563.	1.7	128
10	The hypoglycaemic effect of pumpkins as anti-diabetic and functional medicines. <i>Food Research International</i> , 2011, 44, 862-867.	2.9	124
11	Some observations on a new type of point average molecular weight. <i>Journal of Proteomics</i> , 1982, 7, 25-34.	2.4	119
12	The effect of prolonged storage at different temperatures on the particle size distribution of tripolyphosphate (TPP) chitosan nanoparticles. <i>Carbohydrate Polymers</i> , 2011, 84, 1430-1434.	5.1	106
13	Xanthan/locust bean gum interactions at room temperature. <i>Carbohydrate Polymers</i> , 1992, 19, 91-97.	5.1	103
14	Pressure Cell Assisted Solution Characterization of Polysaccharides. 1. Guar Gum. <i>Biomacromolecules</i> , 2001, 2, 1301-1309.	2.6	102
15	Excavating Past Population Structures by Surname-Based Sampling: The Genetic Legacy of the Vikings in Northwest England. <i>Molecular Biology and Evolution</i> , 2008, 25, 301-309.	3.5	101
16	Physical characterisation of the rhamnogalacturonan and homogalacturonan fractions of sugar beet (<i>Beta vulgaris</i>) pectin. <i>Carbohydrate Polymers</i> , 2010, 82, 1161-1167.	5.1	100
17	A comparison between the hot and cold water soluble fractions of two locust bean gum samples. <i>Carbohydrate Polymers</i> , 1986, 6, 423-442.	5.1	99
18	Pressure Cell Assisted Solubilization of Xyloglucans: Tamarind Seed Polysaccharide and Detarium Gum. <i>Biomacromolecules</i> , 2003, 4, 799-807.	2.6	99

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19	Water-soluble polysaccharides with pharmaceutical importance from Durian rinds (<i>Durio zibethinus</i>) Tj ETQq1 1 0.784314 rgBT /Overbo 471-481.	5.1	97
20	Pressure Cell Assisted Solution Characterization of Polysaccharides. 2. Locust Bean Gum and Tara Gum. <i>Biomacromolecules</i> , 2002, 3, 761-767.	2.6	95
21	Cyanobacterial Exopolysaccharides: Their Nature and Potential Biotechnological Applications. <i>Biotechnology and Genetic Engineering Reviews</i> , 2001, 18, 375-404.	2.4	94
22	Macromolecular conformation of chitosan in dilute solution: A new global hydrodynamic approach. <i>Carbohydrate Polymers</i> , 2009, 76, 616-621.	5.1	91
23	Transmission electron microscopy studies on pig gastric mucin and its interactions with chitosan. <i>Carbohydrate Polymers</i> , 1995, 28, 239-244.	5.1	90
24	Structural and immunological studies of a pectin and a pectic arabinogalactan from <i>Vernonia kotschyana</i> Sch. Bip. ex Walp. (Asteraceae). <i>Carbohydrate Research</i> , 2005, 340, 115-130.	1.1	90
25	Structure and Mucoadhesion of Mussel Glue Protein in Dilute Solution. <i>Biochemistry</i> , 1998, 37, 14108-14112.	1.2	89
26	Polyuronide solubilization during ripening of normal and mutant tomato fruit. <i>Phytochemistry</i> , 1987, 26, 1871-1875.	1.4	87
27	Simultaneous determinations of the molecular weight distributions of amyloses and the fine structures of amylopectins of native starches. <i>Carbohydrate Research</i> , 1994, 260, 99-117.	1.1	87
28	SEDFIT. MSTAR: molecular weight and molecular weight distribution analysis of polymers by sedimentation equilibrium in the ultracentrifuge. <i>Analyst, The</i> , 2014, 139, 79-92.	1.7	83
29	The molecular weight distribution and conformation of citrus pectins in solution studied by hydrodynamics. <i>Carbohydrate Polymers</i> , 1991, 16, 1-15.	5.1	81
30	Laser Reshaping of Cartilage. <i>Biotechnology and Genetic Engineering Reviews</i> , 2000, 17, 553-578.	2.4	80
31	Molecular flexibility of citrus pectins by combined sedimentation and viscosity analysis. <i>Food Hydrocolloids</i> , 2008, 22, 1435-1442.	5.6	78
32	Immunological and Structural Properties of a Pectic Polymer from <i>Glinus Oppositifolius</i> . <i>Glycobiology</i> , 2007, 17, 1299-1310.	1.3	77
33	MSTARA and MSTAR: interactive PC algorithms for simple, model independent evaluation of sedimentation equilibrium data. <i>European Biophysics Journal</i> , 1997, 25, 333-346.	1.2	76
34	SOLPRO: theory and computer program for the prediction of SOLUTION PROPERTIES of rigid macromolecules and bioparticles. <i>European Biophysics Journal</i> , 1997, 25, 361-372.	1.2	76
35	Materials for Encapsulation. , 2010, , 31-100.		74
36	A novel global hydrodynamic analysis of the molecular flexibility of the dietary fibre polysaccharide konjac glucomannan. <i>Food Hydrocolloids</i> , 2009, 23, 1910-1917.	5.6	73

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37	Rapid size distribution and purity analysis of gastric mucus glycoproteins by size exclusion chromatography/multi angle laser light scattering. <i>International Journal of Biological Macromolecules</i> , 1996, 18, 133-139.	3.6	72
38	In vitro cytostatic and immunomodulatory properties of the medicinal mushroom <i>Lentinula edodes</i> . <i>Phytomedicine</i> , 2008, 15, 512-519.	2.3	71
39	A Multilaboratory Comparison of Calibration Accuracy and the Performance of External References in Analytical Ultracentrifugation. <i>PLoS ONE</i> , 2015, 10, e0126420.	1.1	71
40	Bioactive pectic polysaccharides from <i>Glinus oppositifolius</i> (L.) Aug. DC., a Malian medicinal plant, isolation and partial characterization. <i>Journal of Ethnopharmacology</i> , 2005, 101, 204-214.	2.0	70
41	Negative second virial coefficients as predictors of protein crystal growth: Evidence from sedimentation equilibrium studies that refutes the designation of those light scattering parameters as osmotic virial coefficients. <i>Biophysical Chemistry</i> , 2006, 120, 106-113.	1.5	69
42	Characterization of pig colonic mucins. <i>Biochemical Journal</i> , 1996, 316, 937-942.	1.7	65
43	Crystallohydrodynamics for solving the hydration problem for multi-domain proteins: open physiological conformations for human IgG. <i>Biophysical Chemistry</i> , 2001, 93, 181-196.	1.5	65
44	Hydrodynamic characterisation of chemically degraded hyaluronic acid. <i>Carbohydrate Polymers</i> , 2003, 52, 111-117.	5.1	64
45	The Macrostructure of Mucus Glycoproteins in Solution. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 1989, 47, 345-381.	0.4	63
46	Evidence of noncovalent dimerization of calmodulin. <i>FEBS Journal</i> , 1999, 261, 337-344.	0.2	62
47	Nonequivalence of second virial coefficients from sedimentation equilibrium and static light scattering studies of protein solutions. <i>Biophysical Chemistry</i> , 2007, 128, 46-55.	1.5	62
48	Inversion Formulas for Ellipsoid of Revolution Macromolecular Shape Functions. <i>Analytical Biochemistry</i> , 1995, 228, 131-142.	1.1	61
49	Bioactive polysaccharides from the stems of the Thai medicinal plant <i>Acanthus ebracteatus</i> : their chemical and physical features. <i>Carbohydrate Research</i> , 2004, 339, 753-762.	1.1	61
50	On hydrodynamic methods for the analysis of the sizes and shapes of polysaccharides in dilute solution: A short review. <i>Food Hydrocolloids</i> , 2014, 42, 318-334.	5.6	60
51	Characterization of pullulans produced from agro-industrial wastes. <i>Carbohydrate Polymers</i> , 1994, 25, 203-209.	5.1	59
52	Solution Conformation of Wild-Type and Mutant IgG3 and IgG4 Immunoglobulins Using Crystallohydrodynamics: Possible Implications for Complement Activation. <i>Biophysical Journal</i> , 2007, 93, 3733-3744.	0.2	59
53	Pectic polysaccharides from <i>Biophytum petersianum</i> Klotzsch, and their activation of macrophages and dendritic cells. <i>Glycobiology</i> , 2008, 18, 1074-1084.	1.3	58
54	Sodium alginate decreases the permeability of intestinal mucus. <i>Food Hydrocolloids</i> , 2016, 52, 749-755.	5.6	58

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55	Biopolymer Mucoadhesives. <i>Biotechnology and Genetic Engineering Reviews</i> , 1999, 16, 41-86.	2.4	57
56	Mucoadhesive interactions. <i>Biochemical Society Transactions</i> , 2003, 31, 1036-1041.	1.6	57
57	Roles of opioid receptor subtypes in mediating alcohol-seeking induced by discrete cues and context. <i>European Journal of Neuroscience</i> , 2009, 30, 671-678.	1.2	57
58	A comparison of molecular mass determination of hyaluronic acid using SEC/MALLS and sedimentation equilibrium. <i>European Biophysics Journal</i> , 2003, 32, 450-456.	1.2	56
59	The ELLIPS suite of macromolecular conformation algorithms. <i>European Biophysics Journal</i> , 1997, 25, 347-359.	1.2	55
60	Effect of PEGylation on the Solution Conformation of Antibody Fragments. <i>Journal of Pharmaceutical Sciences</i> , 2008, 97, 2062-2079.	1.6	55
61	Coadministration of intravenous nicotine and oral alcohol in rats. <i>Psychopharmacology</i> , 2010, 208, 475-486.	1.5	54
62	COVOL: An Interactive Program for Evaluating Second Virial Coefficients from the Triaxial Shape or Dimensions of Rigid Macromolecules. <i>Biophysical Journal</i> , 1999, 76, 2432-2438.	0.2	53
63	Binding of G-quadruplexes to the N-terminal Recognition Domain of the RNA Helicase Associated with AU-rich Element (RHAU). <i>Journal of Biological Chemistry</i> , 2013, 288, 35014-35027.	1.6	53
64	Stabilisation of oil-in-water emulsions with non-chemical modified gelatinised starch. <i>Food Hydrocolloids</i> , 2018, 81, 409-418.	5.6	53
65	Static Light Scattering Studies on Xanthan in Aqueous Solutions. <i>Macromolecules</i> , 1996, 29, 3491-3498.	2.2	52
66	Further observations on the size, shape and hydration of kappa-carrageenan in dilute solution. <i>Carbohydrate Polymers</i> , 1997, 32, 81-87.	5.1	52
67	The Effectiveness of Lifestyle Adaptation for the Prevention of Prediabetes in Adults: A Systematic Review. <i>Journal of Diabetes Research</i> , 2017, 2017, 1-20.	1.0	52
68	Identification of Oligomerization and Drug-binding Domains of the Membrane Fusion Protein EmrA. <i>Journal of Biological Chemistry</i> , 2003, 278, 12903-12912.	1.6	51
69	Effect of gamma irradiation on the macromolecular integrity of guar gum. <i>Carbohydrate Research</i> , 1996, 282, 223-236.	1.1	50
70	Weak Self-Association in a Carbohydrate System. <i>Biophysical Journal</i> , 2007, 93, 741-749.	0.2	50
71	Calculation of NMR relaxation, covolume, and scattering-related properties of bead models using the SOLPRO computer program. <i>European Biophysics Journal</i> , 1999, 28, 119-132.	1.2	49
72	Global conformation analysis of irradiated xyloglucans. <i>Carbohydrate Polymers</i> , 2008, 74, 845-851.	5.1	49

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73	Insight into protein-protein interactions from analytical ultracentrifugation. <i>Biochemical Society Transactions</i> , 2010, 38, 901-907.	1.6	49
74	Studies on macromolecular interactions in ternary mixtures of konjac glucomannan, xanthan gum and sodium alginate. <i>Carbohydrate Polymers</i> , 2011, 83, 329-338.	5.1	49
75	Trends in muco-adhesive analysis. <i>Trends in Food Science and Technology</i> , 2006, 17, 255-262.	7.8	48
76	The role of noradrenaline and 5-hydroxytryptamine in yohimbine-induced increases in alcohol-seeking in rats. <i>Psychopharmacology</i> , 2009, 204, 477-488.	1.5	48
77	Effects of dexfenfluramine and 5-HT ₃ receptor antagonists on stress-induced reinstatement of alcohol seeking in rats. <i>Psychopharmacology</i> , 2006, 186, 82-92.	1.5	47
78	Conformation zoning of large molecules using the analytical ultracentrifuge. <i>TrAC - Trends in Analytical Chemistry</i> , 1997, 16, 401-405.	5.8	46
79	Thermodynamic stability and folding of GroEL minichaperones 1 Edited by P. E. Wright. <i>Journal of Molecular Biology</i> , 1998, 276, 505-515.	2.0	46
80	A hydrodynamic study of the depolymerisation of a high methoxy pectin at elevated temperatures. <i>Carbohydrate Polymers</i> , 2002, 48, 361-367.	5.1	46
81	Extended Fujita approach to the molecular weight distribution of polysaccharides and other polymeric systems. <i>Methods</i> , 2011, 54, 136-144.	1.9	45
82	Global hydrodynamic analysis of the molecular flexibility of galactomannans. <i>Carbohydrate Polymers</i> , 2008, 72, 356-360.	5.1	44
83	Structure and heterogeneity of gliadin: a hydrodynamic evaluation. <i>European Biophysics Journal</i> , 2010, 39, 255-261.	1.2	44
84	Activation of 2 ⁵ -Oligoadenylate Synthetase by Stem Loops at the 5'-End of the West Nile Virus Genome. <i>PLoS ONE</i> , 2014, 9, e92545.	1.1	43
85	Excluded volume for pairs of triaxial ellipsoids at dominant brownian motion. <i>Journal of Colloid and Interface Science</i> , 1985, 103, 284-289.	5.0	42
86	Amylose Content of Rice Starch. <i>Starch/Staerke</i> , 1999, 51, 311-313.	1.1	42
87	Protein-like Oligomerization of Carbohydrates. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8602-8604.	7.2	41
88	Physico-chemical studies on a commercial food-grade xanthan I. Characterisation by sedimentation velocity, sedimentation equilibrium and viscometry. <i>Carbohydrate Polymers</i> , 1995, 27, 93-99.	5.1	40
89	Challenges for the modern analytical ultracentrifuge analysis of polysaccharides. <i>Carbohydrate Research</i> , 2005, 340, 811-826.	1.1	39
90	Extraction, isolation and characterisation of oil bodies from pumpkin seeds for therapeutic use. <i>Food Chemistry</i> , 2012, 134, 1919-1925.	4.2	39

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91	Ligand-mediated Dimerization of a Carbohydrate-binding Module Reveals a Novel Mechanism for Proteinâ€“Carbohydrate Recognition. <i>Journal of Molecular Biology</i> , 2004, 337, 417-426.	2.0	37
92	Intra-median raphe nucleus (MRN) infusions of muscimol, a GABA-A receptor agonist, reinstate alcohol seeking in rats: role of impulsivity and reward. <i>Psychopharmacology</i> , 2008, 195, 605-615.	1.5	37
93	The Hypoglycemic Effect of Pumpkin Seeds, Trigonelline (TRG), Nicotinic Acid (NA), andâˆ“Chiro-inositol (DCI) in Controlling Glycemic Levels in Diabetes Mellitus. <i>Critical Reviews in Food Science and Nutrition</i> , 2014, 54, 1322-1329.	5.4	35
94	Atomic force microscopy of gastric mucin and chitosan mucoadhesive systems. <i>Biochemical Journal</i> , 2000, 348, 557.	1.7	34
95	Nano-structure of the laminin Î³-1 short arm reveals an extended and curved multidomain assembly. <i>Matrix Biology</i> , 2010, 29, 565-572.	1.5	34
96	Hydrodynamic characterisation of the exopolysaccharide from the halophilic cyanobacterium <i>Aphanothece halophytica</i> GR02: a comparison with xanthan. <i>Carbohydrate Polymers</i> , 2001, 44, 261-268.	5.1	33
97	A physico-chemical comparative study on extracellular carbohydrate polymers from five desert algae. <i>Carbohydrate Polymers</i> , 2003, 54, 27-32.	5.1	33
98	Molecular Flexibility of Methylcelluloses of Differing Degree of Substitution by Combined Sedimentation and Viscosity Analysis. <i>Macromolecular Bioscience</i> , 2008, 8, 1108-1115.	2.1	33
99	Thermal degradation of guar gum. <i>Carbohydrate Polymers</i> , 1989, 10, 205-214.	5.1	32
100	In situ polymerisation of isoeugenol as a green consolidation method for waterlogged archaeological wood. <i>Scientific Reports</i> , 2017, 7, 46481.	1.6	32
101	Antimicrobial resistance (AMR) nanomachinesâ€“mechanisms for fluoroquinolone and glycopeptide recognition, efflux and/or deactivation. <i>Biophysical Reviews</i> , 2018, 10, 347-362.	1.5	32
102	Analysis of thermodynamic non-ideality in terms of protein solvation. <i>Biophysical Chemistry</i> , 2001, 93, 231-240.	1.5	31
103	Correlation of SEC/MALLS with ultracentrifuge and viscometric data for chitosans. <i>European Biophysics Journal</i> , 2003, 32, 457-464.	1.2	31
104	Glycoconjugate vaccines: some observations on carrier and production methods. <i>Biotechnology and Genetic Engineering Reviews</i> , 2019, 35, 93-125.	2.4	31
105	MultiSig: a new high-precision approach to the analysis of complex biomolecular systems. <i>European Biophysics Journal</i> , 2013, 42, 777-786.	1.2	30
106	Novel Size-Independent Modeling of the Dilute Solution Conformation of the Immunoglobulin IgG Fabâ€“2 Domain Using SOLPRO and ELLIPS. <i>Biophysical Journal</i> , 1999, 77, 2902-2910.	0.2	29
107	Hydrodynamic modelling of protein conformation in solution: ELLIPS and HYDRO. <i>Biophysical Reviews</i> , 2013, 5, 195-206.	1.5	29
108	Modelling biological macromolecules in solution: 1. The ellipsoid of revolution. <i>International Journal of Biological Macromolecules</i> , 1982, 4, 160-164.	3.6	28

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109	A General Method for Modeling Macromolecular Shape in Solution. <i>Biophysical Journal</i> , 1987, 51, 673-680.	0.2	28
110	A model for the solution conformation of rat IgE. <i>Biochemical Society Transactions</i> , 1990, 18, 935-936.	1.6	28
111	Probing Activation of the Prokaryotic Arginine Transcriptional Regulator Using Chimeric Proteins. <i>Journal of Molecular Biology</i> , 1999, 289, 707-727.	2.0	28
112	The Electron Transfer Complexes of Cytochrome c Peroxidase from <i>Paracoccus denitrificans</i> . <i>Biochemistry</i> , 2003, 42, 2046-2055.	1.2	28
113	Determination of protein charge by capillary zone electrophoresis. <i>Analytical Biochemistry</i> , 2004, 333, 225-229.	1.1	28
114	An Introduction to Polysaccharide Biotechnology. , 0, , .		28
115	Some observations on the nature of heated mixtures of bovine serum albumin with an alginate and a pectin. <i>Carbohydrate Polymers</i> , 1994, 23, 115-120.	5.1	27
116	Characterisation of the low affinity interaction between rat cell adhesion molecules CD2 and CD48 by analytical ultracentrifugation. <i>European Biophysics Journal</i> , 1997, 25, 455-462.	1.2	27
117	A polydisperse linear random coil model for the quaternary structure of pig colonic mucin. <i>European Biophysics Journal</i> , 1997, 25, 477-480.	1.2	27
118	Formation and Biochemical Characterization of Tube/Pelle Death Domain Complexes: Critical Regulators of Postreceptor Signaling by the <i>Drosophila</i> Toll Receptor. <i>Biochemistry</i> , 1999, 38, 11722-11733.	1.2	27
119	Pressure Cell Assisted Solution Characterization of Galactomannans. 3. Application of Analytical Ultracentrifugation Techniques. <i>Biomacromolecules</i> , 2006, 7, 3513-3520.	2.6	27
120	Concentration dependence of translational diffusion coefficients for globular proteins. <i>Analyst</i> , 2014, 139, 6242-6248.	1.7	27
121	Synthesis and characterisation of lignin-like oligomers as a bio-inspired consolidant for waterlogged archaeological wood. <i>Pure and Applied Chemistry</i> , 2016, 88, 969-977.	0.9	27
122	Modeling biological macromolecules in solution: 3. The \hat{r} -R intersection method for triaxial ellipsoids. <i>International Journal of Biological Macromolecules</i> , 1982, 4, 357-361.	3.6	26
123	A Copper Protein and a Cytochrome Bind at the Same Site on Bacterial Cytochrome c Peroxidase. <i>Biochemistry</i> , 2004, 43, 14566-14576.	1.2	26
124	Application and use of Inulin as a tool for therapeutic drug delivery. <i>Biotechnology and Genetic Engineering Reviews</i> , 2012, 28, 33-46.	2.4	26
125	Combined low speed sedimentation equilibrium/gel permeation chromatography approach to molecular weight distribution analysis: application to a sodium alginate. <i>International Journal of Biological Macromolecules</i> , 1988, 10, 259-264.	3.6	25
126	Ultracentrifugal studies of the effect of molecular crowding by trimethylamine N-oxide on the self-association of muscle glycogen phosphorylase. <i>FEBS Journal</i> , 2001, 268, 506-513.	0.2	25

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127	Dilute solution properties of lactosylated polyamidoamine dendrimers and their structural characteristics. <i>Polymer</i> , 2001, 42, 3671-3678.	1.8	25
128	Partial fractionation of wheat starch amylose and amylopectin using zonal ultracentrifugation. <i>Carbohydrate Polymers</i> , 2003, 52, 269-274.	5.1	25
129	Assembly of the Yeast Exoribonuclease Rrp6 with Its Associated Cofactor Rrp47 Occurs in the Nucleus and Is Critical for the Controlled Expression of Rrp47. <i>Journal of Biological Chemistry</i> , 2013, 288, 15959-15970.	1.6	25
130	Molar mass and viscometric characterisation of hydroxypropylmethyl cellulose. <i>Carbohydrate Polymers</i> , 1996, 29, 105-109.	5.1	24
131	An analytical ultracentrifuge study on ternary mixtures of konjac glucomannan supplemented with sodium alginate and xanthan gum. <i>Carbohydrate Polymers</i> , 2010, 81, 145-148.	5.1	24
132	On the hydrodynamic analysis of conformation in mixed biopolymer systems. <i>Polymer International</i> , 2011, 60, 2-8.	1.6	24
133	Protein-like fully reversible tetramerisation and super-association of an aminocellulose. <i>Scientific Reports</i> , 2014, 4, 3861.	1.6	24
134	Location dependent coordination chemistry and MRI relaxivity, in de novo designed lanthanide coiled coils. <i>Chemical Science</i> , 2016, 7, 2207-2216.	3.7	24
135	Hydrodynamic Properties of Human Erythrocyte Band 3 Solubilized in Reduced Triton X-100. <i>Biophysical Journal</i> , 1999, 76, 2043-2055.	0.2	23
136	Modification of pectin with UV-absorbing substituents and its effect on the structural and hydrodynamic properties of the water-soluble derivatives. <i>Carbohydrate Polymers</i> , 2002, 48, 351-359.	5.1	23
137	Molar mass and solution conformation of branched $\alpha(1\rightarrow4)$, $\alpha(1\rightarrow6)$ Glucans. Part I: Glycogens in water. <i>Carbohydrate Polymers</i> , 2008, 71, 101-108.	5.1	23
138	Hydrodynamic and mass spectrometry analysis of nearly-intact human fibrinogen, chicken fibrinogen, and of a substantially monodisperse human fibrinogen fragment X. <i>Archives of Biochemistry and Biophysics</i> , 2010, 493, 157-168.	1.4	23
139	Ultracentrifuge Methods for the Analysis of Polysaccharides, Glycoconjugates, and Lignins. <i>Methods in Enzymology</i> , 2015, 562, 391-439.	0.4	23
140	The discovery of hydrogen bonds in DNA and a re-evaluation of the 1948 Creeth two-chain model for its structure. <i>Biochemical Society Transactions</i> , 2018, 46, 1171-1182.	1.6	23
141	Understanding the influence of processing conditions on the extraction of rhamnogalacturonan-I α -xylopectin from sugar beet pulp. <i>Food Chemistry: X</i> , 2019, 2, 100026.	1.8	23
142	The antibiotic vancomycin induces complexation and aggregation of gastrointestinal and submaxillary mucins. <i>Scientific Reports</i> , 2020, 10, 960.	1.6	23
143	Thermodynamic non-ideality of dilute solutions of sodium alginate studied by sedimentation equilibrium ultracentrifugation. <i>Food Hydrocolloids</i> , 1991, 5, 125-127.	5.6	22
144	An Ultracentrifugal Approach to Quantitative Characterization of the Molecular Assembly of a Physiological Electron-Transfer Complex. The Interaction of Electron-Transferring Flavoprotein with Trimethylamine Dehydrogenase. <i>FEBS Journal</i> , 1997, 243, 393-399.	0.2	22

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145	Water-soluble p-carboxybenzylated beechwood 4-O-methylglucuronoxylan: structural features and properties. <i>Carbohydrate Polymers</i> , 2000, 42, 123-131.	5.1	22
146	Ca ²⁺ and the bacterial peroxidases: the cytochrome c peroxidase from <i>Pseudomonas stutzeri</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2003, 8, 29-37.	1.1	22
147	Studies on the molecular flexibility of novel dendronized carboxymethyl cellulose derivatives. <i>European Polymer Journal</i> , 2009, 45, 1098-1110.	2.6	22
148	The effect of different storage temperatures on the physical properties of pectin solutions and gels. <i>Polymer Degradation and Stability</i> , 2010, 95, 2670-2673.	2.7	22
149	Hydrodynamics of the VanA-type VanS histidine kinase: an extended solution conformation and first evidence for interactions with vancomycin. <i>Scientific Reports</i> , 2017, 7, 46180.	1.6	22
150	Investigating the influence of pectin content and structure on its functionality in bio-flocculant extracted from okra. <i>Carbohydrate Polymers</i> , 2020, 241, 116414.	5.1	22
151	A compound hydrodynamic shape function derived from viscosity and molecular volume measurements. <i>International Journal of Biological Macromolecules</i> , 1981, 3, 340-341.	3.6	21
152	Some recent developments in the size and shape analysis of industrial polysaccharides in solution using sedimentation analysis in the analytical ultracentrifuge. <i>Carbohydrate Polymers</i> , 1995, 28, 227-237.	5.1	21
153	Analysis of Polysaccharides by Ultracentrifugation. <i>Size, Conformation and Interactions in Solution</i> , 0, 211-254.		21
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