

Stephen E Harding

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329
papers

8,663
citations

51
h-index

72
g-index

346
ext. papers

9,581
ext. citations

5.3
avg, IF

5.99
L-index

#	Paper	IF	Citations
329	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, 207-62	4.7	259
328	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, 345-55	4.7	160
327	Genetic improvement of tomato by targeted control of fruit softening. <i>Nature Biotechnology</i> , 2016 , 34, 950-2	44.5	155
326	On the hydrodynamic analysis of macromolecular conformation. <i>Biophysical Chemistry</i> , 1995 , 55, 69-93	3.5	144
325	Polysaccharide drug delivery systems based on pectin and chitosan. <i>Biotechnology and Genetic Engineering Reviews</i> , 2010 , 27, 257-84	4.1	137
324	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, 117-28	4.1	135
323	Hydrodynamic characterization of chitosans varying in degree of acetylation. <i>International Journal of Biological Macromolecules</i> , 1993 , 15, 113-7	7.9	127
322	The effect of the degree of esterification on the hydrodynamic properties of citrus pectin. <i>Food Hydrocolloids</i> , 2000 , 14, 227-235	10.6	107
321	Atomic force microscopy of gastric mucin and chitosan mucoadhesive systems. <i>Biochemical Journal</i> , 2000 , 348, 557-563	3.8	105
320	Some observations on a new type of point average molecular weight. <i>Journal of Proteomics</i> , 1982 , 7, 25-34		101
319	Xanthan/locust bean gum interactions at room temperature. <i>Carbohydrate Polymers</i> , 1992 , 19, 91-97	10.3	97
318	Pressure cell assisted solution characterization of polysaccharides. 1. Guar gum. <i>Biomacromolecules</i> , 2001 , 2, 1301-9	6.9	95
317	The hypoglycaemic effect of pumpkins as anti-diabetic and functional medicines. <i>Food Research International</i> , 2011 , 44, 862-867	7	93
316	Pressure cell assisted solubilization of xyloglucans: tamarind seed polysaccharide and detarium gum. <i>Biomacromolecules</i> , 2003 , 4, 799-807	6.9	92
315	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	10.3	91
314	A comparison between the hot and cold water soluble fractions of two locust bean gum samples. <i>Carbohydrate Polymers</i> , 1986 , 6, 423-442	10.3	85
313	Pressure cell assisted solution characterization of polysaccharides. 2. Locust bean gum and tara gum. <i>Biomacromolecules</i> , 2002 , 3, 761-7	6.9	84

312	Macromolecular conformation of chitosan in dilute solution: A new global hydrodynamic approach. <i>Carbohydrate Polymers</i> , 2009 , 76, 616-621	10.3	81
311	Transmission electron microscopy studies on pig gastric mucin and its interactions with chitosan. <i>Carbohydrate Polymers</i> , 1995 , 28, 239-244	10.3	81
310	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	2.9	81
309	Structure and mucoadhesion of mussel glue protein in dilute solution. <i>Biochemistry</i> , 1998 , 37, 14108-12	3.2	80
308	Physical characterisation of the rhamnogalacturonan and homogalacturonan fractions of sugar beet (<i>Beta vulgaris</i>) pectin. <i>Carbohydrate Polymers</i> , 2010 , 82, 1161-1167	10.3	79
307	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, 301-9	8.3	79
306	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, 115-30	2.9	79
305	Water-soluble polysaccharides with pharmaceutical importance from Durian rinds (<i>Durio zibethinus</i> Murr.): isolation, fractionation, characterisation and bioactivity. <i>Carbohydrate Polymers</i> , 2004 , 56, 471-481	10.3	78
304	Cyanobacterial exopolysaccharides: their nature and potential biotechnological applications. <i>Biotechnology and Genetic Engineering Reviews</i> , 2001 , 18, 375-404	4.1	78
303	Polyuronide solubilization during ripening of normal and mutant tomato fruit. <i>Phytochemistry</i> , 1987 , 26, 1871-1875	4	77
302	Molecular flexibility of citrus pectins by combined sedimentation and viscosity analysis. <i>Food Hydrocolloids</i> , 2008 , 22, 1435-1442	10.6	72
301	Immunological and structural properties of a pectic polymer from <i>Glinus oppositifolius</i> . <i>Glycobiology</i> , 2007 , 17, 1299-310	5.8	71
300	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, 133-9	7.9	71
299	The molecular weight distribution and conformation of citrus pectins in solution studied by hydrodynamics. <i>Carbohydrate Polymers</i> , 1991 , 16, 1-15	10.3	71
298	MSTARA and MSTARI: interactive PC algorithms for simple, model independent evaluation of sedimentation equilibrium data. <i>European Biophysics Journal</i> , 1997 , 25, 333-346	1.9	69
297	SEDFIT-MSTAR: molecular weight and molecular weight distribution analysis of polymers by sedimentation equilibrium in the ultracentrifuge. <i>Analyst</i> , 2014 , 139, 79-92	5	68
296	A novel global hydrodynamic analysis of the molecular flexibility of the dietary fibre polysaccharide konjac glucomannan. <i>Food Hydrocolloids</i> , 2009 , 23, 1910-1917	10.6	64
295	SOLPRO: theory and computer program for the prediction of SOLution PROPERTIES of rigid macromolecules and bioparticles. <i>European Biophysics Journal</i> , 1997 , 25, 361-72	1.9	63

294	Laser reshaping of cartilage. <i>Biotechnology and Genetic Engineering Reviews</i> , 2000 , 17, 553-78	4.1	61
293	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, 204-14	5	60
292	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, 106-13	3.5	60
291	In vitro cytostatic and immunomodulatory properties of the medicinal mushroom <i>Lentinula edodes</i> . <i>Phytomedicine</i> , 2008 , 15, 512-9	6.5	59
290	Hydrodynamic characterisation of chemically degraded hyaluronic acid. <i>Carbohydrate Polymers</i> , 2003 , 52, 111-117	10.3	58
289	Characterization of pig colonic mucins. <i>Biochemical Journal</i> , 1996 , 316 (Pt 3), 937-42	3.8	57
288	Characterization of pullulans produced from agro-industrial wastes. <i>Carbohydrate Polymers</i> , 1994 , 25, 203-209	10.3	57
287	The macrostructure of mucus glycoproteins in solution. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 1989 , 47, 345-81	3.7	56
286	Nonequivalence of second virial coefficients from sedimentation equilibrium and static light scattering studies of protein solutions. <i>Biophysical Chemistry</i> , 2007 , 128, 46-55	3.5	55
285	Mucoadhesive interactions. <i>Biochemical Society Transactions</i> , 2003 , 31, 1036-41	5.1	55
284	A multilaboratory comparison of calibration accuracy and the performance of external references in analytical ultracentrifugation. <i>PLoS ONE</i> , 2015 , 10, e0126420	3.7	55
283	Materials for Encapsulation 2010 , 31-100		53
282	Evidence of noncovalent dimerization of calmodulin. <i>FEBS Journal</i> , 1999 , 261, 337-44		53
281	Roles of opioid receptor subtypes in mediating alcohol-seeking induced by discrete cues and context. <i>European Journal of Neuroscience</i> , 2009 , 30, 671-8	3.5	52
280	Inversion formulae for ellipsoid of revolution macromolecular shape functions. <i>Analytical Biochemistry</i> , 1995 , 228, 131-42	3.1	52
279	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, 753-62	2.9	51
278	Crystallohydrodynamics for solving the hydration problem for multi-domain proteins: open physiological conformations for human IgG. <i>Biophysical Chemistry</i> , 2001 , 93, 181-96	3.5	51
277	Identification of oligomerization and drug-binding domains of the membrane fusion protein EmrA. <i>Journal of Biological Chemistry</i> , 2003 , 278, 12903-12	5.4	50

276	Static Light Scattering Studies on Xanthan in Aqueous Solutions. <i>Macromolecules</i> , 1996 , 29, 3491-3498	5.5	50
275	A comparison of molecular mass determination of hyaluronic acid using SEC/MALLS and sedimentation equilibrium. <i>European Biophysics Journal</i> , 2003 , 32, 450-6	1.9	49
274	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	10.6	48
273	Coadministration of intravenous nicotine and oral alcohol in rats. <i>Psychopharmacology</i> , 2010 , 208, 475-86	4.7	48
272	Pectic polysaccharides from <i>Biophytum petersianum</i> Klotzsch, and their activation of macrophages and dendritic cells. <i>Glycobiology</i> , 2008 , 18, 1074-84	5.8	48
271	Biopolymer mucoadhesives. <i>Biotechnology and Genetic Engineering Reviews</i> , 1999 , 16, 41-86	4.1	48
270	Effect of gamma irradiation on the macromolecular integrity of guar gum. <i>Carbohydrate Research</i> , 1996 , 282, 223-236	2.9	47
269	Effect of PEGylation on the solution conformation of antibody fragments. <i>Journal of Pharmaceutical Sciences</i> , 2008 , 97, 2062-79	3.9	46
268	The role of noradrenaline and 5-hydroxytryptamine in yohimbine-induced increases in alcohol-seeking in rats. <i>Psychopharmacology</i> , 2009 , 204, 477-88	4.7	45
267	Further observations on the size, shape and hydration of kappa-carrageenan in dilute solution. <i>Carbohydrate Polymers</i> , 1997 , 32, 81-87	10.3	45
266	Weak self-association in a carbohydrate system. <i>Biophysical Journal</i> , 2007 , 93, 741-9	2.9	45
265	Insight into protein-protein interactions from analytical ultracentrifugation. <i>Biochemical Society Transactions</i> , 2010 , 38, 901-7	5.1	44
264	Conformation zoning of large molecules using the analytical ultracentrifuge. <i>TrAC - Trends in Analytical Chemistry</i> , 1997 , 16, 401-405	14.6	44
263	The ELLIPS suite of macromolecular conformation algorithms. <i>European Biophysics Journal</i> , 1997 , 25, 347-59	1.9	43
262	Global conformation analysis of irradiated xyloglucans. <i>Carbohydrate Polymers</i> , 2008 , 74, 845-851	10.3	43
261	A hydrodynamic study of the depolymerisation of a high methoxy pectin at elevated temperatures. <i>Carbohydrate Polymers</i> , 2002 , 48, 361-367	10.3	43
260	Sodium alginate decreases the permeability of intestinal mucus. <i>Food Hydrocolloids</i> , 2016 , 52, 749-755	10.6	42
259	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	4.7	42

258	Trends in muco-adhesive analysis. <i>Trends in Food Science and Technology</i> , 2006 , 17, 255-262	15.3	42
257	Thermodynamic stability and folding of GroEL minichaperones. <i>Journal of Molecular Biology</i> , 1998 , 276, 505-15	6.5	42
256	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, 35014-27	5.4	41
255	Studies on macromolecular interactions in ternary mixtures of konjac glucomannan, xanthan gum and sodium alginate. <i>Carbohydrate Polymers</i> , 2011 , 83, 329-338	10.3	41
254	Solution conformation of wild-type and mutant IgG3 and IgG4 immunoglobulins using crystallography: possible implications for complement activation. <i>Biophysical Journal</i> , 2007 , 93, 3733-44	2.9	41
253	COVOL: an interactive program for evaluating second virial coefficients from the triaxial shape or dimensions of rigid macromolecules. <i>Biophysical Journal</i> , 1999 , 76, 2432-8	2.9	41
252	Extended Fujita approach to the molecular weight distribution of polysaccharides and other polymeric systems. <i>Methods</i> , 2011 , 54, 136-44	4.6	40
251	Calculation of NMR relaxation, covolume, and scattering-related properties of bead models using the SOLPRO computer program. <i>European Biophysics Journal</i> , 1999 , 28, 119-32	1.9	40
250	Protein-like oligomerization of carbohydrates. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8602-4	4.4	37
249	Challenges for the modern analytical ultracentrifuge analysis of polysaccharides. <i>Carbohydrate Research</i> , 2005 , 340, 811-26	2.9	37
248	Physico-chemical studies on a commercial food-grade xanthan II. Characterisation by sedimentation velocity, sedimentation equilibrium and viscometry. <i>Carbohydrate Polymers</i> , 1995 , 27, 93-99	10.3	37
247	The Effectiveness of Lifestyle Adaptation for the Prevention of Prediabetes in Adults: A Systematic Review. <i>Journal of Diabetes Research</i> , 2017 , 2017, 8493145	3.9	36
246	Structure and heterogeneity of gliadin: a hydrodynamic evaluation. <i>European Biophysics Journal</i> , 2010 , 39, 255-61	1.9	35
245	Ligand-mediated dimerization of a carbohydrate-binding molecule reveals a novel mechanism for protein-carbohydrate recognition. <i>Journal of Molecular Biology</i> , 2004 , 337, 417-26	6.5	35
244	Global hydrodynamic analysis of the molecular flexibility of galactomannans. <i>Carbohydrate Polymers</i> , 2008 , 72, 356-360	10.3	34
243	Amylose Content of Rice Starch. <i>Starch/Staerke</i> , 1999 , 51, 311-313	2.3	34
242	Stabilisation of oil-in-water emulsions with non-chemical modified gelatinised starch. <i>Food Hydrocolloids</i> , 2018 , 81, 409-418	10.6	33
241	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, 605-15	4.7	32

240	Atomic force microscopy of gastric mucin and chitosan mucoadhesive systems. <i>Biochemical Journal</i> , 2000 , 348, 557	3.8	32
239	Activation of 2Q5Qoligoadenylate synthetase by stem loops at the 5Qend of the West Nile virus genome. <i>PLoS ONE</i> , 2014 , 9, e92545	3.7	32
238	Extraction, isolation and characterisation of oil bodies from pumpkin seeds for therapeutic use. <i>Food Chemistry</i> , 2012 , 134, 1919-25	8.5	31
237	Nano-structure of the laminin E1 short arm reveals an extended and curved multidomain assembly. <i>Matrix Biology</i> , 2010 , 29, 565-72	11.4	31
236	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	10.3	31
235	Excluded volume for pairs of triaxial ellipsoids at dominant brownian motion. <i>Journal of Colloid and Interface Science</i> , 1985 , 103, 284-289	9.3	30
234	Molecular flexibility of methylcelluloses of differing degree of substitution by combined sedimentation and viscosity analysis. <i>Macromolecular Bioscience</i> , 2008 , 8, 1108-15	5.5	29
233	Correlation of SEC/MALLS with ultracentrifuge and viscometric data for chitosans. <i>European Biophysics Journal</i> , 2003 , 32, 457-64	1.9	29
232	A physico-chemical comparative study on extracellular carbohydrate polymers from five desert algae. <i>Carbohydrate Polymers</i> , 2003 , 54, 27-32	10.3	29
231	Pressure cell assisted solution characterization of galactomannans. 3. Application of analytical ultracentrifugation techniques. <i>Biomacromolecules</i> , 2006 , 7, 3513-20	6.9	27
230	Probing activation of the prokaryotic arginine transcriptional regulator using chimeric proteins. <i>Journal of Molecular Biology</i> , 1999 , 289, 707-27	6.5	27
229	Thermal degradation of guar gum. <i>Carbohydrate Polymers</i> , 1989 , 10, 205-214	10.3	27
228	Characterisation of the low affinity interaction between rat cell adhesion molecules CD2 and CD48 by analytical ultracentrifugation. <i>European Biophysics Journal</i> , 1997 , 25, 455-62	1.9	26
227	A polydisperse linear random coil model for the quaternary structure of pig colonic mucin. <i>European Biophysics Journal</i> , 1997 , 25, 477-80	1.9	26
226	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	10.3	26
225	Modelling biological macromolecules in solution: 1. The ellipsoid of revolution. <i>International Journal of Biological Macromolecules</i> , 1982 , 4, 160-164	7.9	26
224	In situ polymerisation of isoeugenol as a green consolidation method for waterlogged archaeological wood. <i>Scientific Reports</i> , 2017 , 7, 46481	4.9	25
223	The hypoglycemic effect of pumpkin seeds, Trigonelline (TRG), Nicotinic acid (NA), and D-Chiro-inositol (DCI) in controlling glycemic levels in diabetes mellitus. <i>Critical Reviews in Food Science and Nutrition</i> , 2014 , 54, 1322-9	11.5	25

222	MultiSig: a new high-precision approach to the analysis of complex biomolecular systems. <i>European Biophysics Journal</i> , 2013 , 42, 777-86	1.9	25
221	Determination of protein charge by capillary zone electrophoresis. <i>Analytical Biochemistry</i> , 2004 , 333, 225-9	3.1	25
220	The electron transfer complexes of cytochrome c peroxidase from <i>Paracoccus denitrificans</i> . <i>Biochemistry</i> , 2003 , 42, 2046-55	3.2	25
219	Novel size-independent modeling of the dilute solution conformation of the immunoglobulin IgG FabQ domain using SOLPRO and ELLIPS. <i>Biophysical Journal</i> , 1999 , 77, 2902-10	2.9	25
218	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, 11722-33	3.2	24
217	Molar mass and viscometric characterisation of hydroxypropylmethyl cellulose. <i>Carbohydrate Polymers</i> , 1996 , 29, 105-109	10.3	24
216	A General Method for Modeling Macromolecular Shape in Solution: A Graphical (II-G) Intersection Procedure for Triaxial Ellipsoids. <i>Biophysical Journal</i> , 1987 , 51, 673-80	2.9	24
215	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	7.9	24
214	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, 15959-70	5.4	23
213	A copper protein and a cytochrome bind at the same site on bacterial cytochrome c peroxidase. <i>Biochemistry</i> , 2004 , 43, 14566-76	3.2	23
212	Partial fractionation of wheat starch amylose and amylopectin using zonal ultracentrifugation. <i>Carbohydrate Polymers</i> , 2003 , 52, 269-274	10.3	23
211	Analysis of thermodynamic non-ideality in terms of protein solvation. <i>Biophysical Chemistry</i> , 2001 , 93, 231-40	3.5	23
210	Concentration dependence of translational diffusion coefficients for globular proteins. <i>Analyst, The</i> , 2014 , 139, 6242-8	5	22
209	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	10.3	22
208	Ultracentrifugal studies of the effect of molecular crowding by trimethylamine N-oxide on the self-association of muscle glycogen phosphorylase b. <i>FEBS Journal</i> , 2001 , 268, 506-13		22
207	A model for the solution conformation of rat IgE. <i>Biochemical Society Transactions</i> , 1990 , 18, 935-6	5.1	22
206	Application and use of Inulin as a tool for therapeutic drug delivery. <i>Biotechnology and Genetic Engineering Reviews</i> , 2012 , 28, 33-45	4.1	21
205	Molar mass and solution conformation of branched (1-4), (1-6) Glucans. Part I: Glycogens in water. <i>Carbohydrate Polymers</i> , 2008 , 71, 101-108	10.3	21

204	Dilute solution properties of lactosylated polyamidoamine dendrimers and their structural characteristics. <i>Polymer</i> , 2001 , 42, 3671-3678	3.9	21
203	Water-soluble p-carboxybenzylated beechwood 4-O-methylglucuronoxylan: structural features and properties. <i>Carbohydrate Polymers</i> , 2000 , 42, 123-131	10.3	21
202	Thermodynamic non-ideality of dilute solutions of sodium alginate studied by sedimentation equilibrium ultracentrifugation. <i>Food Hydrocolloids</i> , 1991 , 5, 125-127	10.6	21
201	Location dependent coordination chemistry and MRI relaxivity, in designed lanthanide coiled coils. <i>Chemical Science</i> , 2016 , 7, 2207-2216	9.4	20
200	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, 157-68	4.1	20
199	Studies on the molecular flexibility of novel dendronized carboxymethyl cellulose derivatives. <i>European Polymer Journal</i> , 2009 , 45, 1098-1110	5.2	20
198	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	10.3	20
197	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, 393-9		20
196	Analysis of Polysaccharides by Ultracentrifugation. Size, Conformation and Interactions in Solution	211-254	20
195	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	3.7	20
194	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	10.3	20
193	A compound hydrodynamic shape function derived from viscosity and molecular covolume measurements. <i>International Journal of Biological Macromolecules</i> , 1981 , 3, 340-341	7.9	20
192	Glycoconjugate vaccines: some observations on carrier and production methods. <i>Biotechnology and Genetic Engineering Reviews</i> , 2019 , 35, 93-125	4.1	20
191	Ultracentrifuge Methods for the Analysis of Polysaccharides, Glycoconjugates, and Lignins. <i>Methods in Enzymology</i> , 2015 , 562, 391-439	1.7	19
190	Both Reversible Self-Association and Structural Changes Underpin Molecular Viscoelasticity of mAb Solutions. <i>Journal of Pharmaceutical Sciences</i> , 2016 , 105, 3496-3506	3.9	19
189	An asymmetric and slightly dimerized structure for the tetanus toxoid protein used in glycoconjugate vaccines. <i>Carbohydrate Polymers</i> , 2012 , 90, 1831-5	10.3	19
188	An analytical ultracentrifugation based study on the conformation of lambda carrageenan in aqueous solution. <i>Carbohydrate Polymers</i> , 2013 , 97, 203-9	10.3	19
187	On the hydrodynamic analysis of conformation in mixed biopolymer systems. <i>Polymer International</i> , 2011 , 60, 2-8	3.3	19

186	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
185	Damaged starch characterisation by ultracentrifugation. <i>Carbohydrate Research</i> , 2006 , 341, 130-7	2.9	19
184	Solution studies of the SH2 domain from the fyn tyrosine kinase: secondary structure, backbone dynamics and protein association. <i>European Biophysics Journal</i> , 1996 , 24, 371-80	1.9	19
183	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	2.1	19
182	Protein-like fully reversible tetramerisation and super-association of an aminocellulose. <i>Scientific Reports</i> , 2014 , 4, 3861	4.9	18
181	Starch-modified magnetite nanoparticles for impregnation into cartilage. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	18
180	Solution conformation of adenovirus virus associated RNA-I and its interaction with PKR. <i>Journal of Structural Biology</i> , 2014 , 185, 48-57	3.4	18
179	Hydrodynamic modelling of protein conformation in solution: ELLIPS and HYDRO. <i>Biophysical Reviews</i> , 2013 , 5, 195-206	3.7	18
178	Molecular weight distribution evaluation of polysaccharides and glycoconjugates using analytical ultracentrifugation. <i>Macromolecular Bioscience</i> , 2010 , 10, 714-20	5.5	18
177	Characterization of <i>Medicago truncatula</i> (barrel medic) hydroperoxide lyase (CYP74C3), a water-soluble detergent-free cytochrome P450 monomer whose biological activity is defined by monomer-micelle association. <i>Biochemical Journal</i> , 2006 , 395, 641-52	3.8	18
176	Mycobacterium tuberculosis chaperonin 10 is secreted in the macrophage phagosome: is secretion due to dissociation and adoption of a partially helical structure at the membrane?. <i>Journal of Bacteriology</i> , 2003 , 185, 4256-67	3.5	18
175	Hydrodynamic properties of human erythrocyte band 3 solubilized in reduced Triton X-100. <i>Biophysical Journal</i> , 1999 , 76, 2043-55	2.9	18
174	Modeling biological macromolecules in solution: 3. The ER intersection method for triaxial ellipsoids. <i>International Journal of Biological Macromolecules</i> , 1982 , 4, 357-361	7.9	18
173	Antimicrobial resistance (AMR) nanomachines-mechanisms for fluoroquinolone and glycopeptide recognition, efflux and/or deactivation. <i>Biophysical Reviews</i> , 2018 , 10, 347-362	3.7	17
172	Solution properties of capsular polysaccharides from <i>Streptococcus pneumoniae</i> . <i>Carbohydrate Polymers</i> , 2012 , 90, 237-42	10.3	17
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