Andrew Almond

List of Publications by Year
in descending order

57 papers	2,556 citations	136950 32 h-index	197818 49 g-index
58 all docs	58 docs citations	58 times ranked	2433 citing authors

#	Article	IF	Citations
1	Hyaluronan. Cellular and Molecular Life Sciences, 2007, 64, 1591-1596.	5.4	173
2	Structural characterisation of two forms of procyclic acidic repetitive protein expressed by procyclic forms of Trypanosoma brucei. Journal of Molecular Biology, 1997, 269, 529-547.	4.2	138
3	Hyaluronan: The Local Solution Conformation Determined by NMR and Computer Modeling is Close to a Contracted Left-handed 4-Fold Helix. Journal of Molecular Biology, 2006, 358, 1256-1269.	4.2	102
4	Towards understanding the interaction between oligosaccharides and water molecules. Carbohydrate Research, 2005, 340, 907-920.	2.3	90
5	Free Energy Landscapes of Iduronic Acid and Related Monosaccharides. Journal of the American Chemical Society, 2010, 132, 13132-13134.	13.7	86
6	Expression and Purification of Functionally Active Hyaluronan-binding Domains from Human Cartilage Link Protein, Aggrecan and Versican. Journal of Biological Chemistry, 2005, 280, 5435-5448.	3.4	82
7	The Link Module from Ovulation- and Inflammation-associated Protein TSG-6 Changes Conformation on Hyaluronan Binding. Journal of Biological Chemistry, 2003, 278, 49261-49270.	3.4	81
8	Physical Interpretation of Residual Dipolar Couplings in Neutral Aligned Media. Journal of the American Chemical Society, 2002, 124, 9986-9987.	13.7	78
9	Predicting the molecular shape of polysaccharides from dynamic interactions with water. Glycobiology, 2003, 13, 255-264.	2.5	78
10	Deducing polymeric structure from aqueous molecular dynamics simulations of oligosaccharides: predictions from simulations of hyaluronan tetrasaccharides compared with hydrodynamic and X-ray fibre diffraction data 1 1Edited by R. Huber. Journal of Molecular Biology, 1998, 284, 1425-1437.	4.2	72
11	Towards a Structure for a TSG-6Â·Hyaluronan Complex by Modeling and NMR Spectroscopy. Journal of Biological Chemistry, 2005, 280, 18189-18201.	3.4	69
12	Dynamic exchange between stabilized conformations predicted for hyaluronan tetrasaccharides: Comparison of molecular dynamics simulations with available NMR data. Glycobiology, 1998, 8, 973-980.	2.5	63
13	Glycosaminoglycan conformation: do aqueous molecular dynamics simulations agree with x-ray fiber diffraction?. Glycobiology, 2000, 10, 329-338.	2.5	58
14	Hyaluronan: the absence of amideâ€"carboxylate hydrogen bonds and the chain conformation in aqueous solution are incompatible with stable secondary and tertiary structure models. Biochemical Journal, 2006, 396, 487-498.	3.7	58
15	Molecular dynamics simulations of the two disaccharides of hyaluronan in aqueous solution. Glycobiology, 1997, 7, 597-604.	2.5	57
16	Use of 15N-NMR to resolve molecular details in isotopically-enriched carbohydrates: sequence-specific observations in hyaluronan oligomers up to decasaccharides. Glycobiology, 2004, 14, 999-1009.	2.5	56
17	Does Microsecond Sugar Ring Flexing Encode 3D-Shape and Bioactivity in the Heparanome?. Biomacromolecules, 2013, 14, 1149-1159.	5.4	56
18	Comparison of Aqueous Molecular Dynamics with NMR Relaxation and Residual Dipolar Couplings Favors Internal Motion in a Mannose Oligosaccharide. Journal of the American Chemical Society, 2001, 123, 4792-4802.	13.7	54

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19	Is N-acetyl-d-glucosamine a rigid 4C1 chair?. Glycobiology, 2011, 21, 1651-1662.	2.5	53
20	A 3D-structural model of unsulfated chondroitin from high-field NMR: 4-sulfation has little effect on backbone conformation. Carbohydrate Research, 2010, 345, 291-302.	2.3	51
21	Multiscale modeling of glycosaminoglycan structure and dynamics: current methods and challenges. Current Opinion in Structural Biology, 2018, 50, 58-64.	5.7	51
22	N-Acetylated amino sugars: the dependence of NMR 3J(HNH2)-couplings on conformation, dynamics and solvent. Organic and Biomolecular Chemistry, 2007, 5, 2243.	2.8	49
23	A Refined Model for the TSG-6 Link Module in Complex with Hyaluronan. Journal of Biological Chemistry, 2014, 289, 5619-5634.	3.4	46
24	A New Route to Carbohydrate Secondary and Tertiary Structure Using Raman Spectroscopy and Raman Optical Activity. Journal of the American Chemical Society, 2010, 132, 10654-10655.	13.7	45
25	Quantification of free ligand conformational preferences by NMR and their relationship to the bioactive conformation. Bioorganic and Medicinal Chemistry, 2013, 21, 4976-4987.	3.0	45
26	Oligosaccharides Implicated in Recognition Are Predicted to Have Relatively Ordered Structures. Biochemistry, 2004, 43, 5853-5863.	2.5	44
27	The structural plasticity of heparan sulfate NA-domains and hence their role in mediating multivalent interactions is confirmed by high-accuracy 15N-NMR relaxation studies. Glycoconjugate Journal, 2008, 25, 401-414.	2.7	40
28	Comparative pharmacology and computational modelling yield insights into allosteric modulation of human Î±7 nicotinic acetylcholine receptors. Biochemical Pharmacology, 2009, 78, 836-843.	4.4	40
29	Complete assignment of hyaluronan oligosaccharides up to hexasaccharides. Carbohydrate Research, 2006, 341, 2803-2815.	2.3	38
30	Preparation and application of biologically active fluorescent hyaluronan oligosaccharides. Glycobiology, 2005, 15, 303-312.	2.5	37
31	Dependence of Pyranose Ring Puckering on Anomeric Configuration: Methyl Idopyranosides. Journal of Physical Chemistry B, 2012, 116, 6380-6386.	2.6	35
32	Proteoglycans and Their Heterogeneous Glycosaminoglycans at the Atomic Scale. Biomacromolecules, 2015, 16, 951-961.	5.4	35
33	Pd(II)-Mediated Assembly of Porphyrin Channels in Bilayer Membranesâ€. Langmuir, 2011, 27, 1448-1456.	3.5	33
34	Dynamics of Hyaluronan Oligosaccharides Revealed by 15N Relaxation. Journal of the American Chemical Society, 2005, 127, 1086-1087.	13.7	32
35	Quantitative conformational analysis of the core region of N-glycans using residual dipolar couplings, aqueous molecular dynamics, and steric alignment. , 2001, 20, 351-363.		31
36	Determining the Molecular Basis for the pH-dependent Interaction between the Link Module of Human TSG-6 and Hyaluronan. Journal of Biological Chemistry, 2007, 282, 12976-12988.	3.4	31

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37	Heparosan-coated liposomes for drug delivery. Glycobiology, 2017, 27, 1062-1074.	2.5	31
38	Less is more when simulating unsulfated glycosaminoglycan 3Dâ€structure: Comparison of GLYCAM06/TIP3P, PM3â€CARB1/TIP3P, and SCCâ€DFTBâ€D/TIP3P predictions with experiment. Journal of Computational Chemistry, 2010, 31, 2932-2947.	3.3	28
39	Enzymatic and chemical methods for the generation of pure hyaluronan oligosaccharides with both odd and even numbers of monosaccharide units. Analytical Biochemistry, 2006, 353, 236-247.	2.4	26
40	Chemical polyglycosylation and nanolitre detection enables single-molecule recapitulation of bacterial sugar export. Nature Chemistry, 2016, 8, 461-469.	13.6	26
41	Defined megadalton hyaluronan polymer standards. Analytical Biochemistry, 2006, 355, 183-188.	2.4	22
42	The Conformational Properties of the Glc3Man Unit Suggest Conformational Biasing within the Chaperone-assisted Glycoprotein Folding Pathway. Journal of Molecular Biology, 2009, 387, 335-347.	4.2	22
43	Shaping up for structural glycomics: a predictive protocol for oligosaccharide conformational analysis applied to N-linked glycans. Carbohydrate Research, 2014, 383, 34-42.	2.3	22
44	Microsecond kinetics in model single- and double-stranded amylose polymers. Physical Chemistry Chemical Physics, 2014, 16, 8119-8126.	2.8	21
45	Temperature dependencies of amide1H- and15N-chemical shifts in hyaluronan oligosaccharides. Magnetic Resonance in Chemistry, 2007, 45, 430-433.	1.9	20
46	Investigating the Molecular Basis for the Virulence of <i>Escherichia coli</i> K5 by Nuclear Magnetic Resonance Analysis of the Capsule Polysaccharide. Journal of Molecular Microbiology and Biotechnology, 2009, 17, 71-82.	1.0	20
47	Synthesis and characterization of heparosan-granulocyte-colony stimulating factor conjugates: a natural sugar-based drug delivery system to treat neutropenia. Glycobiology, 2017, 27, 1052-1061.	2.5	20
48	Assigning kinetic 3D-signatures to glycocodes. Physical Chemistry Chemical Physics, 2012, 14, 5843.	2.8	19
49	NMR spectra of oligosaccharides at ultra-high field (900MHz) have better resolution than expected due to favourable molecular tumbling. Carbohydrate Research, 2006, 341, 1985-1991.	2.3	17
50	Using Molecular Dynamics Simulations To Provide New Insights into Protein Structure on the Nanosecond Timescale:â€‰ Comparison with Experimental Data and Biological Inferences for the Hyaluronan-Binding Link Module of TSG-6. Journal of Chemical Theory and Computation, 2007, 3, 1-16.	5.3	16
51	Fourier transform mass spectrometry to monitor hyaluronan-protein interactions: use of hydrogen/deuterium amide exchange. Rapid Communications in Mass Spectrometry, 2007, 21, 121-131.	1.5	14
52	Experimental evidence for all-or-none cooperative interactions between the G1-domain of versican and multivalent hyaluronan oligosaccharides. Matrix Biology, 2006, 25, 14-19.	3.6	13
53	Exploiting the carboxylate chemical shift to resolve degenerate resonances in spectra of13C-labelled glycosaminoglycans. Magnetic Resonance in Chemistry, 2005, 43, 805-815.	1.9	11
54	The importance of including local correlation times in the calculation of inter-proton distances from NMR measurements: ignoring local correlation times leads to significant errors in the conformational analysis of the GlcÎ±1â€“2GlcÎ± linkage by NMR spectroscopy. Organic and Biomolecular Chemistry, 2006, 4, 2241-2246.	2.8	9

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55	Deconvolution of conformational exchange from Raman spectra of aqueous RNA nucleosides. Communications Chemistry, 2020, 3, .	4.5	7
56	Biomolecular Dynamics: Testing Microscopic Predictions against Macroscopic Experiments. ACS Symposium Series, 2006, , 156-169.	0.5	3
57	Catechol-hydrazone conjugates for the rapid functionalization of magnetite nanoparticles with cell targeting groups. Materials Research Society Symposia Proceedings, 2014, 1688, 1.	0.1	2