Andrew N Round

List of Publications by Year
in descending order

26	1,112	471061 17	552369 26
papers	citations	h-index	g-index

26	26	26	1393
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A new view of pectin structure revealed by acid hydrolysis and atomic force microscopy. Carbohydrate Research, 2010, 345, 487-497.	1.1	183
2	Investigating the nature of branching in pectin by atomic force microscopy and carbohydrate analysis. Carbohydrate Research, 2001, 331, 337-342.	1.1	97
3	Heterogeneity and Persistence Length in Human Ocular Mucins. Biophysical Journal, 2002, 83, 1661-1670.	0.2	95
4	Lamellar Structures of MUC2-Rich Mucin: A Potential Role in Governing the Barrier and Lubricating Functions of Intestinal Mucus. Biomacromolecules, 2012, 13, 3253-3261.	2.6	91
5	Unexpected branching in pectin observed by atomic force microscopy. Carbohydrate Research, 1997, 303, 251-253.	1.1	89
6	Atomic force microscopy of plant cell walls, plant cell wall polysaccharides and gels. International Journal of Biological Macromolecules, 1997, 21, 61-66.	3.6	74
7	The Influence of Water on the Nanomechanical Behavior of the Plant Biopolyester Cutin as Studied by AFM and Solid-State NMR. Biophysical Journal, 2000, 79, 2761-2767.	0.2	70
8	Enhanced imaging of DNA via active quality factor control. Surface Science, 2001, 491, 468-472.	0.8	51
9	Supramolecular Amino Acid Based Hydrogels: Probing the Contribution of Additive Molecules using NMR Spectroscopy. Chemistry - A European Journal, 2017, 23, 8014-8024.	1.7	49
10	Exploring the consequences of attractive and repulsive interaction regimes in tapping mode atomic force microscopy of DNA. Nanotechnology, 2004, 15, S176-S183.	1.3	47
11	Glycopolymer charge density determines conformation in human ocular mucin gene products: an atomic force microscope study. Journal of Structural Biology, 2004, 145, 246-253.	1.3	43
12	Characterising semi-refined iota-carrageenan networks by atomic force microscopy. Carbohydrate Polymers, 1998, 36, 67-72.	5.1	33
13	Mechanistic and Kinetic Insight into Spontaneous Cocrystallization of Isoniazid and Benzoic Acid. Molecular Pharmaceutics, 2015, 12, 2981-2992.	2.3	31
14	Comparison Between Shear Force and Tapping Mode AFM - High Resolution Imaging of DNA. Single Molecules, 2002, 3, 105-110.	1.7	30
15	Single molecule investigation of the onset and minimum size of the calcium-mediated junction zone in alginate. Carbohydrate Polymers, 2016, 148, 52-60.	5.1	28
16	The isolated MUC5AC gene product from human ocular mucin displays intramolecular conformational heterogeneity. Glycobiology, 2007, 17, 578-585.	1.3	24
17	The Role of the Mucus Barrier in Digestion. Food Digestion, 2012, 3, 8-15.	0.9	17
18	Mapping the positions of beads on a string: dethreading rotaxanes by molecular force spectroscopy. Nanotechnology, 2008, 19, 345706.	1.3	12

#	Article	IF	Citations
19	Nanoscale Thin Film Ordering Produced by Channel Formation in the Inclusion Complex of Î±-Cyclodextrin with a Polyurethane Composed of Polyethylene Oxide and Hexamethylene. Macromolecules, 2008, 41, 1393-1400.	2.2	10
20	Non-covalent duplex to duplex crosslinking of DNA in solution revealed by single molecule force spectroscopy. Organic and Biomolecular Chemistry, 2013, 11, 8340.	1.5	10
21	High Molecular Weight Mixed-Linkage Glucan as a Mechanical and Hydration Modulator of Bacterial Cellulose: Characterization by Advanced NMR Spectroscopy. Biomacromolecules, 2019, 20, 4180-4190.	2.6	10
22	The Development of Thermal Nanoprobe Methods as a Means of Characterizing and Mapping Plasticizer Incorporation into Ethylcellulose Films. Pharmaceutical Research, 2012, 29, 2128-2138.	1.7	7
23	Sliding Contact Dynamic Force Spectroscopy Method for Interrogating Slowly Forming Polymer Cross-Links. Langmuir, 2016, 32, 12814-12822.	1.6	6
24	A rapid screen for molecules that form duplex to duplex crosslinks in DNA. Chemical Communications, 2013, 49, 9113.	2.2	3
25	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.	2.8	1
26	Bridging the Gap Between Single-Molecule Unbinding Properties and Macromolecular Rheology. Soft and Biological Matter, 2017, , 3-37.	0.3	1