David A Brant

List of Publications by Citations

22 papers	1,073 citations	17 h-index	22 g-index
22 ext. papers	1,107 ext. citations	4.3 avg, IF	3.85 L-index

#	Paper	IF	Citations
22	Observations of the (1-β)-D-Glucan Linear Triple Helix to Macrocycle Interconversion Using Noncontact Atomic Force Microscopy. *Journal of the American Chemical Society*, **1998**, 120, 6909-6919	16.4	136
21	Light scattering study of a series of xanthan fractions in aqueous solution. *Macromolecules*, **1982**, 15, 874-879	5.5	126
20	Comparative flexibility, extension, and conformation of some simple polysaccharide chains. *Biopolymers*, **1983**, 22, 1769-1792	2.2	106
19	A Monte Carlo study of the amylosic chain conformation. *Biopolymers*, **1978**, 17, 2617-2632	2.2	101
18	Imaging of individual biopolymers and supramolecular assemblies using noncontact atomic force microscopy. *Biopolymers*, **1997**, 42, 133-46	2.2	88
17	Conformational theory applied to polysaccharide structure. *Quarterly Reviews of Biophysics*, **1976**, 9, 527-96	7	72
16	Rheology of Concentrated Isotropic and Anisotropic Xanthan Solutions. 1. A Rodlike Low Molecular Weight Sample. *Macromolecules*, **2002**, 35, 2212-2222	5.5	69
15	Rheology of Concentrated Isotropic and Anisotropic Xanthan Solutions. 2. A Semiflexible Wormlike Intermediate Molecular Weight Sample. *Macromolecules*, **2002**, 35, 2223-2234	5.5	52
14	Light-scattering investigation of the temperature-driven conformation change in xanthan. *Macromolecules*, **1987**, 20, 2179-2187	5.5	51
13	An investigation of pectin and pectic acid in dilute aqueous solution. *Biopolymers*, **1978**, 17, 2885-2895	2.2	49
12	Viscoelastic Behavior of Thermally Treated Aqueous Xanthan Solutions in the Semidilute Concentration Regime. *Macromolecules*, **1994**, 27, 2402-2408	5.5	35
11	Rheology of concentrated isotropic and anisotropic xanthan solutions: 3. Temperature dependence. *Biomacromolecules*, **2002**, 3, 742-53	6.9	31
10	Thermal treatment of semi-dilute aqueous xanthan solutions yields weak gels with properties resembling hyaluronic acid. *International Journal of Biological Macromolecules*, **1993**, 15, 3-10	7.9	29
9	Comparison of the conformational dynamics of the (1----4)- and (1----6)-linked alpha-D-glucans using 13C-NMR relaxation. *Biopolymers*, **1991**, 31, 1581-92	2.2	27
8	Realistic Conformational Modeling of Carbohydrates. *ACS Symposium Series*, **1990**, 42-68	0.4	27
7	Local Dynamics of Carbohydrates. 1. Dynamics of Simple Glycans with Different Chain Linkages. *Journal of Physical Chemistry B*, **1999**, 103, 8162-8171	3.4	26
6	The interaction of carboxymethylamylose and diethylaminoethylamylose with iodine. *Biopolymers*, **1977**, 16, 983-1006	2.2	19

5	Measurement of preferential solvation of some glucans in mixed solvent systems by gel-permeation chromatography. *Biopolymers*, **1980**, 19, 639-653	2.2	13
4	The Configurational Statistics of Pullulan and Some Related Glucans. *ACS Symposium Series*, **1981**, 81-99	0.4	12
3	A Model for Amylose-Iodine Binding. *ACS Symposium Series*, **1981**, 477-490	0.4	2
2	Imaging of individual biopolymers and supramolecular assemblies using noncontact atomic force microscopy **1997**, 42, 133		2
1	Model for the Temperature-Induced Conformational Change in Xanthan Polysaccharide. *Biomacromolecules*, **2021**, 22, 4691-4700	6.9	0