

David A Brant

List of Publications by Year in descending order

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22
papers

1,177
citations

535685

17
h-index

799663

21
g-index

22
all docs

22
docs citations

22
times ranked

656
citing authors

#	ARTICLE	IF	CITATIONS
1	Model for the Temperature-Induced Conformational Change in Xanthan Polysaccharide. <i>Biomacromolecules</i> , 2021, 22, 4691-4700.	2.6	1
2	Rheology of Concentrated Isotropic and Anisotropic Xanthan Solutions. 2. A Semiflexible Wormlike Intermediate Molecular Weight Sample. <i>Macromolecules</i> , 2002, 35, 2223-2234.	2.2	56
3	Rheology of Concentrated Isotropic and Anisotropic Xanthan Solutions: 3. Temperature Dependence. <i>Biomacromolecules</i> , 2002, 3, 742-753.	2.6	35
4	Rheology of Concentrated Isotropic and Anisotropic Xanthan Solutions. 1. A Rodlike Low Molecular Weight Sample. <i>Macromolecules</i> , 2002, 35, 2212-2222.	2.2	73
5	Local Dynamics of Carbohydrates. 1. Dynamics of Simple Glycans with Different Chain Linkages. <i>Journal of Physical Chemistry B</i> , 1999, 103, 8162-8171.	1.2	27
6	Observations of the (1 \rightarrow 3)- β -D-Glucan Linear Triple Helix to Macrocycle Interconversion Using Noncontact Atomic Force Microscopy. <i>Journal of the American Chemical Society</i> , 1998, 120, 6909-6919.	6.6	151
7	Imaging of individual biopolymers and supramolecular assemblies using noncontact atomic force microscopy. <i>Biopolymers</i> , 1997, 42, 133-146.	1.2	95
8	Imaging of individual biopolymers and supramolecular assemblies using noncontact atomic force microscopy. , 1997, 42, 133.		2
9	Viscoelastic Behavior of Thermally Treated Aqueous Xanthan Solutions in the Semidilute Concentration Regime. <i>Macromolecules</i> , 1994, 27, 2402-2408.	2.2	40
10	Thermal treatment of semi-dilute aqueous xanthan solutions yields weak gels with properties resembling hyaluronic acid. <i>International Journal of Biological Macromolecules</i> , 1993, 15, 3-10.	3.6	31
11	Comparison of the conformational dynamics of the (1 \rightarrow 4)- and (1 \rightarrow 6)-linked β -D-glucans using ^{13}C -NMR relaxation. <i>Biopolymers</i> , 1991, 31, 1581-1592.	1.2	30
12	Realistic Conformational Modeling of Carbohydrates. <i>ACS Symposium Series</i> , 1990, , 42-68.	0.5	32
13	Light-scattering investigation of the temperature-driven conformation change in xanthan. <i>Macromolecules</i> , 1987, 20, 2179-2187.	2.2	59
14	Comparative flexibility, extension, and conformation of some simple polysaccharide chains. <i>Biopolymers</i> , 1983, 22, 1769-1792.	1.2	115
15	Light scattering study of a series of xanthan fractions in aqueous solution. <i>Macromolecules</i> , 1982, 15, 874-879.	2.2	137
16	A Model for Amylose-Iodine Binding. <i>ACS Symposium Series</i> , 1981, , 477-490.	0.5	2
17	The Configurational Statistics of Pullulan and Some Related Glucans. <i>ACS Symposium Series</i> , 1981, , 81-99.	0.5	14
18	Measurement of preferential solvation of some glucans in mixed solvent systems by gel-permeation chromatography. <i>Biopolymers</i> , 1980, 19, 639-653.	1.2	14

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19	A Monte Carlo study of the amylosic chain conformation. <i>Biopolymers</i> , 1978, 17, 2617-2632.	1.2	109
20	An investigation of pectin and pectic acid in dilute aqueous solution. <i>Biopolymers</i> , 1978, 17, 2885-2895.	1.2	54
21	The interaction of carboxymethylamylose and diethylaminoethylamylose with iodine. <i>Biopolymers</i> , 1977, 16, 983-1006.	1.2	21
22	Conformational theory applied to polysaccharide structure. <i>Quarterly Reviews of Biophysics</i> , 1976, 9, 527-596.	2.4	79