Robert G Gilbert

List of Publications by Year
in descending order

431 papers	24,251 citations	8208 78 h-index	14779 131 g-index
440 all docs	440 docs citations	440 times ranked	10820 citing authors

#	Article	IF	Citations
1	Effect of processing on the solubility and molecular size of oat Î²-glucan and consequences for starch digestibility of oat-fortified noodles. Food Chemistry, 2022, 372, 131291.	4.2	13
2	Liver fibrosis alters the molecular structures of hepatic glycogen. Carbohydrate Polymers, 2022, 278, 118991.	5.1	3
3	The effect of high-amylose resistant starch on the glycogen structure of diabetic mice. International Journal of Biological Macromolecules, 2022, 200, 124-131.	3.6	8
4	Starch Molecular Structural Features and Volatile Compounds Affecting the Sensory Properties of Polished Australian Wild Rice. Foods, 2022, 11, 511.	1.9	2
5	The role of storage protein fractions in slowing starch digestion in chickpea seed. Food Hydrocolloids, 2022, 129, 107617.	5.6	7
6	A Review on the Structure and Anti-Diabetic (Type 2) Functions of Î²-Glucans. Foods, 2022, 11, 57.	1.9	5
7	Testing the Linearity Assumption for Starch Structure-Property Relationships in Rices. Frontiers in Nutrition, 2022, 9, .	1.6	2
8	Amylose Inter-Chain Entanglement and Inter-Chain Overlap Impact Rice Quality. Foods, 2022, 11, 1516.	1.9	5
9	Starch molecular structural differences between chalky and translucent parts of chalky rice grains. Food Chemistry, 2022, 394, 133471.	4.2	3
10	Amorphous packing of amylose and elongated branches linked to the enzymatic resistance of high-amylose wheat starch granules. Carbohydrate Polymers, 2022, 295, 119871.	5.1	9
11	Probiotic fermentation modifies the structures of pectic polysaccharides from carrot pulp. Carbohydrate Polymers, 2021, 251, 117116.	5.1	30
12	Effects of endogenous proteins on rice digestion during small intestine (in vitro) digestion. Food Chemistry, 2021, 344, 128687.	4.2	22
13	Characterization of the baking-induced changes in starch molecular and crystalline structures in sugar-snap cookies. Carbohydrate Polymers, 2021, 256, 117518.	5.1	18
14	The importance of glycogen molecular structure for blood glucose control. IScience, 2021, 24, 101953.	1.9	11
15	Identification of Structure-Controlling Rice Biosynthesis Enzymes. Biomacromolecules, 2021, 22, 2148-2159.	2.6	10
16	The dynamic changes of glycogen molecular structure in Escherichia coli BL21(DE3). Carbohydrate Polymers, 2021, 259, 117773.	5.1	7
17	Structural reasons for inhibitory effects of pectin on Î±-amylase enzyme activity and in-vitro digestibility of starch. Food Hydrocolloids, 2021, 114, 106581.	5.6	24
18	Optimization of liver glycogen extraction when considering the fine molecular structure. Carbohydrate Polymers, 2021, 261, 117887.	5.1	6

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19	Molecular-structure evolution during in vitro fermentation of granular high-amylose wheat starch is different to in vitro digestion. Food Chemistry, 2021, 362, 130188.	4.2	15
20	Starch structure-property relations in Australian wild rices compared to domesticated rices. Carbohydrate Polymers, 2021, 271, 118412.	5.1	15
21	Starch molecular fine structure is associated with protein composition in chickpea seed. Carbohydrate Polymers, 2021, 272, 118489.	5.1	6
22	Late-maturity Î±-amylase (LMA) testing and its methodological challenges. LWT - Food Science and Technology, 2021, 151, 112232.	2.5	3
23	Late-Maturity Alpha-Amylase in Wheat (Triticum aestivum) and Its Impact on Fresh White Sauce Qualities. Foods, 2021, 10, 201.	1.9	7
24	Understanding the Binding of Starch Fragments to Granule-Bound Starch Synthase. Biomacromolecules, 2021, 22, 4730-4737.	2.6	4
25	Malt protein inhibition of Î²-amylase alters starch molecular structure during barley mashing. Food Hydrocolloids, 2020, 100, 105423.	5.6	10
26	Some molecular structural features of glycogen in the kidneys of diabetic rats. Carbohydrate Polymers, 2020, 229, 115526.	5.1	3
27	Dendrobium officinale polysaccharide ameliorates diabetic hepatic glucose metabolism via glucagon-mediated signaling pathways and modifying liver-glycogen structure. Journal of Ethnopharmacology, 2020, 248, 112308.	2.0	91
28	The effects of the chain-length distributions of starch molecules on rheological and thermal properties of wheat flour paste. Food Hydrocolloids, 2020, 101, 105563.	5.6	44
29	New insights into amylose and amylopectin biosynthesis in rice endosperm. Carbohydrate Polymers, 2020, 230, 115656.	5.1	45
30	Metformin and Berberine suppress glycogenolysis by inhibiting glycogen phosphorylase and stabilizing the molecular structure of glycogen in db/db mice. Carbohydrate Polymers, 2020, 243, 116435.	5.1	12
31	Fecal microbiota responses to rice RS3 are specific to amylose molecular structure. Carbohydrate Polymers, 2020, 243, 116475.	5.1	52
32	High-amylose wheat starch: Structural basis for water absorption and pasting properties. Carbohydrate Polymers, 2020, 245, 116557.	5.1	61
33	Effects of fasting on liver glycogen structure in rats with type 2 diabetes. Carbohydrate Polymers, 2020, 237, 116144.	5.1	12
34	Effects of Nonstarch Genetic Modifications on Starch Structure and Properties. Foods, 2020, 9, 222.	1.9	6
35	Investigating cooked rice textural properties by instrumental measurements. Food Science and Human Wellness, 2020, 9, 130-135.	2.2	40
36	Using Molecular Fine Structure to Identify Optimal Methods of Extracting Starch. Starch/Staerke, 2020, 72, 1900214.	1.1	16

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37	The contribution of Î^{2}-glucan and starch fine structure to texture of oat-fortified wheat noodles. Food Chemistry, 2020, 324, 126858.	4.2	28
38	Characterization of glycogen molecular structure in the worm Caenorhabditis elegans. Carbohydrate Polymers, 2020, 237, 116181.	5.1	11
39	Relations between digestibility and structures of pumpkin starches and pectins. Food Hydrocolloids, 2020, 106, 105894.	5.6	36
40	Effects of amylose and amylopectin fine structure on sugar-snap cookie dough rheology and cookie quality. Carbohydrate Polymers, 2020, 241, 116371.	5.1	40
41	A molecular explanation of wheat starch physicochemical properties related to noodle eating quality. Food Hydrocolloids, 2020, 108, 106035.	5.6	38
42	Using starch molecular fine structure to understand biosynthesis-structure-property relations. Trends in Food Science and Technology, 2019, 86, 530-536.	7.8	86
43	The size dependence of the average number of branches in amylose. Carbohydrate Polymers, 2019, 223, 115134.	5.1	17
44	Relationship between the molecular structure of duckweed starch and its in vitro enzymatic degradation kinetics. International Journal of Biological Macromolecules, 2019, 139, 244-251.	3.6	9
45	Influence of heat treatment on starch structure and physicochemical properties of oats. Journal of Cereal Science, 2019, 89, 102805.	1.8	17
46	The Role of Pullulanase in Starch Biosynthesis, Structure, and Thermal Properties by Studying Sorghum with Increased Pullulanase Activity. Starch/Staerke, 2019, 71, 1900072.	1.1	9
47	Characterizing the impact of starch and gluten-induced alterations on gelatinization behavior of physically modified model dough. Food Chemistry, 2019, 301, 125276.	4.2	10
48	Starch branching enzymes contributing to amylose and amylopectin fine structure in wheat. Carbohydrate Polymers, 2019, 224, 115185.	5.1	31
49	A more general approach to fitting digestion kinetics of starch in food. Carbohydrate Polymers, 2019, 225, 115244.	5.1	53
50	Glycogen structure in type 1 diabetic mice: Towards understanding the origin of diabetic glycogen molecular fragility. International Journal of Biological Macromolecules, 2019, 128, 665-672.	3.6	23
51	Altering starch branching enzymes in wheat generates high-amylose starch with novel molecular structure and functional properties. Food Hydrocolloids, 2019, 92, 51-59.	5.6	75
52	Starch structure-property relations as a function of barley germination times. International Journal of Biological Macromolecules, 2019, 136, 1125-1132.	3.6	17
53	Molecular Structure of Glycogen in <i>Escherichia coli</i>. Biomacromolecules, 2019, 20, 2821-2829.	2.6	27
54	Relations between changes in starch molecular fine structure and in thermal properties during rice grain storage. Food Chemistry, 2019, 295, 484-492.	4.2	48

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55	Distribution of short to medium amylose chains are major controllers of in vitro digestion of retrograded rice starch. Food Hydrocolloids, 2019, 96, 634-643.	5.6	137
56	High-amylose rice: Starch molecular structural features controlling cooked rice texture and preference. Carbohydrate Polymers, 2019, 219, 251-260.	5.1	117
57	Modification of retrogradation property of rice starch by improved extrusion cooking technology. Carbohydrate Polymers, 2019, 213, 192-198.	5.1	38
58	Molecular structure-property relations controlling mashing performance of amylases as a function of barley grain size. Amylase, 2019, 3, 1-18.	0.7	4
59	Effects of active ingredients from traditional Chinese medicines on glycogen molecular structure in diabetic mice. European Polymer Journal, 2019, 112, 67-72.	2.6	13
60	The role of thermostable proteinaceous Î±-amylase inhibitors in slowing starch digestion in pasta. Food Hydrocolloids, 2019, 90, 241-247.	5.6	49
61	Colloid chemistry approach to understand the storage stability of fermented carrot juice. Food Hydrocolloids, 2019, 89, 623-630.	5.6	20
62	Characterizing Starch Molecular Structure of Rice. Methods in Molecular Biology, 2019, 1892, 169-185.	0.4	4
63	Molecular brewing: Molecular structural effects involved in barley malting and mashing. Carbohydrate Polymers, 2019, 206, 583-592.	5.1	38
64	How amylose molecular fine structure of rice starch affects functional properties. Carbohydrate Polymers, 2019, 204, 24-31.	5.1	167
65	Competition between Granule Bound Starch Synthase and Starch Branching Enzyme in Starch Biosynthesis. Rice, 2019, 12, 96.	1.7	25
66	Diurnal changes of glycogen molecular structure in healthy and diabetic mice. Carbohydrate Polymers, 2018, 185, 145-152.	5.1	32
67	Starch molecular structure: The basis for an improved understanding of cooked rice texture. Carbohydrate Polymers, 2018, 195, 9-17.	5.1	182
68	Proteomic Investigation of the Binding Agent between Liver Glycogen Î² Particles. ACS Omega, 2018, 3, 3640-3645.	1.6	35
69	Mechanisms of utilisation of arabinoxylans by a porcine faecal inoculum: competition and co-operation. Scientific Reports, 2018, 8, 4546.	1.6	25
70	The adsorption of Î±-amylase on barley proteins affects the in vitro digestion of starch in barley flour. Food Chemistry, 2018, 241, 493-501.	4.2	118
71	Mechanistic understanding of the relationships between molecular structure and emulsification properties of octenyl succinic anhydride (OSA) modified starches. Food Hydrocolloids, 2018, 74, 168-175.	5.6	48
72	Effects of the Starch Molecular Structures in Barley Malts and Rice Adjuncts on Brewing Performance. Fermentation, 2018, 4, 103.	1.4	33

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73	Improved methodology for analyzing relations between starch digestion kinetics and molecular structure. Food Chemistry, 2018, 264, 284-292.	4.2	87
74	Exploring glycogen biosynthesis through Monte Carlo simulation. International Journal of Biological Macromolecules, 2018, 116, 264-271.	3.6	17
75	Effects of pectin on molecular structural changes in starch during digestion. Food Hydrocolloids, 2017, 69, 10-18.	5.6	72
76	The molecular structural features controlling stickiness in cooked rice, a major palatability determinant. Scientific Reports, 2017, 7, 43713.	1.6	101
77	Implications for biological function of lobe dependence of the molecular structure of liver glycogen. European Polymer Journal, 2017, 90, 105-113.	2.6	9
78	Effect of pulsed electrical fields on the structural properties that affect french fry texture during processing. Trends in Food Science and Technology, 2017, 67, 1-11.	7.8	56
79	Molecular structures and properties of starches of Australian wild rice. Carbohydrate Polymers, 2017, 172, 213-222.	5.1	39
80	Molecular structural differences between maize leaf and endosperm starches. Carbohydrate Polymers, 2017, 161, 10-15.	5.1	13
81	Parameterizing amylose chain-length distributions for biosynthesis-structure-property relations. Analytical and Bioanalytical Chemistry, 2017, 409, 6813-6819.	1.9	84
82	On the Role of Catabolic Enzymes in Biosynthetic Models of Glycogen Molecular Weight Distributions. ACS Omega, 2017, 2, 5221-5227.	1.6	3
83	Physicochemical and structural properties of pregelatinized starch prepared by improved extrusion cooking technology. Carbohydrate Polymers, 2017, 175, 265-272.	5.1	138
84	Relationships between protein content, starch molecular structure and grain size in barley. Carbohydrate Polymers, 2017, 155, 271-279.	5.1	84
85	Recent progress toward understanding the role of starch biosynthetic enzymes in the cereal endosperm. Amylase, 2017, 1, .	0.7	32
86	Molecular-size dependence of glycogen enzymatic degradation and its importance for diabetes. European Polymer Journal, 2016, 82, 175-180.	2.6	32
87	Amylopectin chain length distribution in grains of japonica rice as affected by nitrogen fertilizer and genotype. Journal of Cereal Science, 2016, 71, 230-238.	1.8	39
88	Compact structure and proteins of pasta retard in vitro digestive evolution of branched starch molecular structure. Carbohydrate Polymers, 2016, 152, 441-449.	5.1	75
89	A new non-degradative method to purify glycogen. Carbohydrate Polymers, 2016, 147, 165-170.	5.1	13
90	Structural characterizations and in vitro digestibility of acidâ€treated wrinkled and smooth pea starch (<i>Pisum sativum</i> L.). Starch/Staerke, 2016, 68, 762-770.	1.1	14

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91	A broad-standard technique for correcting for band broadening in size-exclusion chromatography. Journal of Chromatography A, 2016, 1443, 267-271.	1.8	3
92	Instrumental measurement of cooked rice texture by dynamic rheological testing and its relation to the fine structure of rice starch. Carbohydrate Polymers, 2016, 146, 253-263.	5.1	108
93	Progress in controlling starch structure by modifying starch-branching enzymes. Planta, 2016, 243, 13-22.	1.6	41
94	Nanocomposites with functionalised polysaccharide nanocrystals through aqueous free radical polymerisation promoted by ozonolysis. Carbohydrate Polymers, 2016, 135, 256-266.	5.1	41
95	The importance of amylose and amylopectin fine structure for textural properties of cooked rice grains. Food Chemistry, 2016, 196, 702-711.	4.2	363
96	Relationships between amylopectin molecular structures andÂfunctional properties of different-sized fractions of normal andÂhigh-amylose maize starches. Food Hydrocolloids, 2016, 52, 359-368.	5.6	105
97	Molecular Structure of Human-Liver Glycogen. PLoS ONE, 2016, 11, e0150540.	1.1	29
98	The effects of variable nitrogen application on barley starch structure under drought stress. Journal of the Institute of Brewing, 2015, 121, 502-509.	0.8	39
99	Combined techniques for characterising pasta structure reveals how the gluten network slows enzymic digestion rate. Food Chemistry, 2015, 188, 559-568.	4.2	189
100	Improved understanding of rice amylose biosynthesis from advanced starch structural characterization. Rice, 2015, 8, 55.	1.7	29
101	Biodegradation of starch films: The roles of molecular and crystalline structure. Carbohydrate Polymers, 2015, 122, 115-122.	5.1	54
102	Drought-proofing barley (<i>Hordeum vulgare</i>) and its impact on grain quality: A review. Journal of the Institute of Brewing, 2015, 121, 19-27.	0.8	24
103	Diurnal changes in Sorghum leaf starch molecular structure. Plant Science, 2015, 239, 147-154.	1.7	29
104	The biosynthesis, structure and gelatinization properties of starches from wild and cultivated African rice species (Oryza barthii and Oryza glaberrima). Carbohydrate Polymers, 2015, 129, 92-100.	5.1	75
105	Binding of Starch Fragments to the Starch Branching Enzyme: Implications for Developing Slower-Digesting Starch. Biomacromolecules, 2015, 16, 2475-2481.	2.6	6
106	Characterization of the time evolution of starch structure from rice callus. Carbohydrate Polymers, 2015, 127, 116-123.	5.1	12
107	Roles of GBSSI and SSIIa in determining amylose fine structure. Carbohydrate Polymers, 2015, 127, 264-274.	5.1	59
108	Molecular structure of glycogen in diabetic liver. Glycoconjugate Journal, 2015, 32, 113-118.	1.4	46

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109	The Mechanism for Stopping Chain and Total-Molecule Growth in Complex Branched Polymers, Exemplified by Glycogen. Biomacromolecules, 2015, 16, 1870-1872.	2.6	21
110	SEC Analysis of Poly(Acrylic Acid) and Poly(Methacrylic Acid). Macromolecular Chemistry and Physics, 2015, 216, 23-37.	1.1	46
111	A rapid extraction method for glycogen from formalin-fixed liver. Carbohydrate Polymers, 2015, 118, 9-15.	5.1	26
112	Establishing whether the structural feature controlling the mechanical properties of starch films is molecular or crystalline. Carbohydrate Polymers, 2015, 117, 262-270.	5.1	28
113	Acid Hydrolysis and Molecular Density of Phytoglycogen and Liver Glycogen Helps Understand the Bonding in Glycogen Î± (Composite) Particles. PLoS ONE, 2015, 10, e0121337.	1.1	44
114	The Characterization of Modified Starch Branching Enzymes: Toward the Control of Starch Chain-Length Distributions. PLoS ONE, 2015, 10, e0125507.	1.1	20
115	Impairment of Liver Glycogen Storage in the db/db Animal Model of Type 2 Diabetes: A Potential Target for Future Therapeutics?. Current Drug Targets, 2015, 16, 1088-1093.	1.0	21
116	New Perspectives on the Role of Î±- and Î²-Amylases in Transient Starch Synthesis. PLoS ONE, 2014, 9, e100498.	1.1	25
117	Effects of Rice Variety and Growth Location in Cambodia on Grain Composition and Starch Structure. Rice Science, 2014, 21, 47-58.	1.7	14
118	Changes in Glycogen Structure over Feeding Cycle Sheds New Light on Blood-Glucose Control. Biomacromolecules, 2014, 15, 660-665.	2.6	45
119	Structural Changes of Starch Molecules in Barley Grains During Germination. Cereal Chemistry, 2014, 91, 431-437.	1.1	27
120	Exploring extraction/dissolution procedures for analysis of starch chain-length distributions. Carbohydrate Polymers, 2014, 114, 36-42.	5.1	169
121	Variation in Amylose Fine Structure of Starches from Different Botanical Sources. Journal of Agricultural and Food Chemistry, 2014, 62, 4443-4453.	2.4	134
122	Two-dimensional macromolecular distributions reveal detailed architectural features in high-amylose starches. Carbohydrate Polymers, 2014, 113, 539-551.	5.1	43
123	Causal Relations Among Starch Biosynthesis, Structure, and Properties. Springer Science Reviews, 2014, 2, 15-33.	1.3	49
124	Causal Relations between Structural Features of Amylopectin, a Semicrystalline Hyperbranched Polymer. Biomacromolecules, 2014, 15, 2501-2511.	2.6	33
125	Shear degradation of molecular, crystalline, and granular structures of starch during extrusion. Starch/Staerke, 2014, 66, 595-605.	1.1	109
126	Aggregate and emulsion properties of enzymatically-modified octenylsuccinylated waxy starches. Carbohydrate Polymers, 2014, 111, 918-927.	5.1	21

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127	Improving size-exclusion chromatography separation for glycogen. Journal of Chromatography A, 2014, 1332, 21-29.	1.8	32
128	Extraction, isolation and characterisation of phytoglycogen from su-1 maize leaves and grain. Carbohydrate Polymers, 2014, 101, 423-431.	5.1	38
129	Pea starch (Pisum sativum L.) with slow digestion property produced using Î²-amylase and transglucosidase. Food Chemistry, 2014, 164, 317-323.	4.2	41
130	Structures of octenylsuccinylated starches: Effects on emulsions containing Î²-carotene. Carbohydrate Polymers, 2014, 112, 85-93.	5.1	42
131	The Molecular Size Distribution of Glycogen and its Relevance to Diabetes. Australian Journal of Chemistry, 2014, 67, 538.	0.5	15
132	Improving human health through understanding the complex structure of glucose polymers. Analytical and Bioanalytical Chemistry, 2013, 405, 8969-8980.	1.9	38
133	Molecular structure of starch in grains is not affected by common dwarfing genes in rice (<i>sd1</i>) and sorghum (<i>dw3</i>). Starch/Staerke, 2013, 65, 822-830.	1.1	3
134	Barley genotype expressing â€œstay-greenâ€•like characteristics maintains starch quality of the grain during water stress condition. Journal of Cereal Science, 2013, 58, 414-419.	1.8	38
135	Structure and physicochemical properties of octenyl succinic anhydride modified starches: A review. Carbohydrate Polymers, 2013, 92, 905-920.	5.1	484
136	The importance of amylose and amylopectin fine structures for starch digestibility in cooked rice grains. Food Chemistry, 2013, 136, 742-749.	4.2	287
137	Effect of octenylsuccinic anhydride modification on Î²-amylolysis of starch. Carbohydrate Polymers, 2013, 97, 9-17.	5.1	30
138	The influence of macromolecular architecture on the critical aggregation concentration of large amphiphilic starch derivatives. Food Hydrocolloids, 2013, 31, 365-374.	5.6	47
139	Insights into Sorghum Starch Biosynthesis from Structure Changes Induced by Different Growth Temperatures. Cereal Chemistry, 2013, 90, 223-230.	1.1	24
140	Characterization Methods for Starch-Based Materials: State of the Art and Perspectives. Australian Journal of Chemistry, 2013, 66, 1550.	0.5	56
141	What Is Being Learned About Starch Properties from Multipleâ€Level Characterization. Cereal Chemistry, 2013, 90, 312-325.	1.1	59
142	A Parameterized Model of Amylopectin Synthesis Provides Key Insights into the Synthesis of Granular Starch. PLoS ONE, 2013, 8, e65768.	1.1	126
143	Household Rice Choice and Consumption Behavior Across Agro-Climatic Zones of Cambodia. Journal of Hunger and Environmental Nutrition, 2012, 7, 333-346.	1.1	12
144	Molecular Insights into Glycogen Î±-Particle Formation. Biomacromolecules, 2012, 13, 3805-3813.	2.6	42

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145	Relations between Molecular, Crystalline, and Lamellar Structures of Amylopectin. Biomacromolecules, 2012, 13, 4273-4282.	2.6	124
146	The structure of cardiac glycogen in healthy mice. International Journal of Biological Macromolecules, 2012, 51, 887-891.	3.6	36
147	Amylose content in starches: Toward optimal definition and validating experimental methods. Carbohydrate Polymers, 2012, 88, 103-111.	5.1	196
148	Kinetic analysis of bile salt passage across a dialysis membrane in the presence of cereal soluble dietary fibre polymers. Food Chemistry, 2012, 134, 2007-2013.	4.2	29
149	Milling of Rice Grains. The Degradation on Three Structural Levels of Starch in Rice Flour Can Be Independently Controlled during Grinding. Journal of Agricultural and Food Chemistry, 2011, 59, 3964-3973.	2.4	144
150	New ¹H NMR Procedure for the Characterization of Native and Modified Food-Grade Starches. Journal of Agricultural and Food Chemistry, 2011, 59, 6913-6919.	2.4	169
151	Molecular Structural Differences between Type-2-Diabetic and Healthy Glycogen. Biomacromolecules, 2011, 12, 1983-1986.	2.6	43
152	Effect of a gibberellin-biosynthesis inhibitor treatment on the physicochemical properties of sorghum starch. Journal of Cereal Science, 2011, 53, 328-334.	1.8	51
153	Diffusion and rheology characteristics of barley mixed linkage Î2-glucan and possible implications for digestion. Carbohydrate Polymers, 2011, 86, 1732-1738.	5.1	45
154	Size-separation characterization of starch and glycogen for biosynthesisâ€“structureâ€“property relationships. Analytical and Bioanalytical Chemistry, 2011, 399, 1425-1438.	1.9	48
155	Starch granule characterization by kinetic analysis of their stages during enzymic hydrolysis: 1H nuclear magnetic resonance studies. Carbohydrate Polymers, 2011, 83, 1775-1786.	5.1	17
156	Analytical methodology for multidimensional size/branch-length distributions for branched glucose polymers using off-line 2-dimensional size-exclusion chromatography and enzymatic treatment. Journal of Chromatography A, 2011, 1218, 4434-4444.	1.8	23
157	Rate coefficients for enzyme-catalyzed reactions from molecular weight distributions. Polymer, 2011, 52, 1490-1494.	1.8	8
158	Metal Binding by Water-Soluble Polychelates and Implications for Agriculture. Australian Journal of Chemistry, 2011, 64, 1593.	0.5	1
159	Accelerated testing of nutrient release rates from fertiliser granules. Soil Research, 2010, 48, 668.	0.6	1
160	Characterization of branched polysaccharides using multipleâ€detection size separation techniques. Journal of Separation Science, 2010, 33, 3537-3554.	1.3	212
161	Mechanistic study of the formation of amphiphilic coreâ€“shell particles by grafting methyl methacrylate from polyethylenimine through emulsion polymerization. Polymer, 2010, 51, 3512-3519.	1.8	29
162	Using chain-length distributions to diagnose genetic diversity in starch biosynthesis. Carbohydrate Polymers, 2010, 81, 120-127.	5.1	21

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163	Reliable measurements of the size distributions of starch molecules in solution: Current dilemmas and recommendations. Carbohydrate Polymers, 2010, 79, 255-261.	5.1	126
164	Digestion of starch: In vivo and in vitro kinetic models used to characterise oligosaccharide or glucose release. Carbohydrate Polymers, 2010, 80, 599-617.	5.1	296
165	Structural differences between hot-water-soluble and hot-water-insoluble fractions of starch in waxy rice (Oryza sativa L.). Carbohydrate Polymers, 2010, 81, 524-532.	5.1	32
166	Diffusion and viscosity in arabinoxylan solutions: Implications for nutrition. Carbohydrate Polymers, 2010, 82, 46-53.	5.1	63
167	Two-Dimensional Size/Branch Length Distributions of a Branched Polymer. Macromolecules, 2010, 43, 7321-7329.	2.2	159
168	In Vivo and In Vitro Starch Digestion: Are Current in Vitro Techniques Adequate?. Biomacromolecules, 2010, 11, 3600-3608.	2.6	127
169	Mechanism of Degradation of Starch, a Highly Branched Polymer, during Extrusion. Macromolecules, 2010, 43, 2855-2864.	2.2	227
170	Starch Digestion Mechanistic Information from the Time Evolution of Molecular Size Distributions. Journal of Agricultural and Food Chemistry, 2010, 58, 8444-8452.	2.4	78
171	Molecular Weight Distributions of Starch Branches Reveal Genetic Constraints on Biosynthesis. Biomacromolecules, 2010, 11, 3539-3547.	2.6	94
172	Nature of Î± and Î² Particles in Glycogen Using Molecular Size Distributions. Biomacromolecules, 2010, 11, 1094-1100.	2.6	72
173	Effect of particle size on kinetics of starch digestion in milled barley and sorghum grains by porcine alpha-amylase. Journal of Cereal Science, 2009, 50, 198-204.	1.8	218
174	Assessment of the Extent of Starch Dissolution in Dimethyl Sulfoxide by ¹H NMR Spectroscopy. Macromolecular Bioscience, 2009, 9, 506-514.	2.1	91
175	The effect of copolymer composition on the surface properties of perfluoroalkylethyl acrylates. Journal of Applied Polymer Science, 2009, 114, 4020-4029.	1.3	11
176	Synthesis and characterization of synthetic polymer colloids colloidally stabilized by cationized starch oligomers. Journal of Polymer Science Part A, 2009, 47, 1836-1852.	2.5	25
177	General description of the structure of branched polymers. Journal of Polymer Science Part A, 2009, 47, 3914-3930.	2.5	35
178	Controlled/living radical polymerization of isoprene and butadiene in emulsion. European Polymer Journal, 2009, 45, 3149-3163.	2.6	43
179	Kinetics of In Vitro Digestion of Starches Monitored by Time-Resolved1H Nuclear Magnetic Resonance. Biomacromolecules, 2009, 10, 638-644.	2.6	23
180	Extracting Physically Useful Information from Multiple-Detection Size-Separation Data for Starch. Biomacromolecules, 2009, 10, 2708-2713.	2.6	13

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181	Characterization of Starch by Size-Exclusion Chromatography: The Limitations Imposed by Shear Scission. Biomacromolecules, 2009, 10, 2245-2253.	2.6	308
182	Synthesis of methacrylate derivatives oligomers by dithiobenzoateâ€RAFTâ€mediated polymerization. Journal of Polymer Science Part A, 2008, 46, 2277-2289.	2.5	37
183	Perfluorinated coatings and terracotta: An impregnation study. Journal of Applied Polymer Science, 2008, 110, 663-677.	1.3	3
184	Toward a full characterization of native starch: Separation and detection by size-exclusion chromatography. Journal of Chromatography A, 2008, 1205, 60-70.	1.8	43
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