Robert Gilbert

List of Publications by Year in Descending Order

508 papers	22,690 citations	75 h-index	125 g-index
525 ext. papers	24,977 ext. citations	5.1 avg, IF	7.12 L-index

#	Paper	IF	Citations
508	Liver fibrosis alters the molecular structures of hepatic glycogen.. *Carbohydrate Polymers*, **2022**, 278, 118991	10.3	0
507	Effect of processing on the solubility and molecular size of oat β-glucan and consequences for starch digestibility of oat-fortified noodles. *Food Chemistry*, **2022**, 372, 131291	8.5	1
506	Three-Dimensional (3D) Food Printing Based on Starch-Based Inks: Crucial Factors for Printing Precision **2022**, 101-140		
505	The role of storage protein fractions in slowing starch digestion in chickpea seed. *Food Hydrocolloids*, **2022**, 129, 107617	10.6	0
504	Relation between polymer transitions and the extensional viscosity of dough systems during thermal stabilization assessed by lubricated squeezing flow.. *Food Chemistry*, **2022**, 389, 133048	8.5	
503	Amylose Inter-Chain Entanglement and Inter-Chain Overlap Impact Rice Quality. *Foods*, **2022**, 11, 1516	4.9	1
502	Understanding the Binding of Starch Fragments to Granule-Bound Starch Synthase. *Biomacromolecules*, **2021**, 22, 4730-4737	6.9	1
501	The effect of high-amylose resistant starch on the glycogen structure of diabetic mice.. *International Journal of Biological Macromolecules*, **2021**, 200, 124-124	7.9	1
500	Identification of Structure-Controlling Rice Biosynthesis Enzymes. *Biomacromolecules*, **2021**, 22, 2148-2159	6.9	4
499	The dynamic changes of glycogen molecular structure in Escherichia coli BL21(DE3). *Carbohydrate Polymers*, **2021**, 259, 117773	10.3	2
498	Structural reasons for inhibitory effects of pectin on α-amylase enzyme activity and in-vitro digestibility of starch. *Food Hydrocolloids*, **2021**, 114, 106581	10.6	5
497	Optimization of liver glycogen extraction when considering the fine molecular structure. *Carbohydrate Polymers*, **2021**, 261, 117887	10.3	4
496	Probiotic fermentation modifies the structures of pectic polysaccharides from carrot pulp. *Carbohydrate Polymers*, **2021**, 251, 117116	10.3	4
495	Effects of endogenous proteins on rice digestion during small intestine (in vitro) digestion. *Food Chemistry*, **2021**, 344, 128687	8.5	12
494	Characterization of the baking-induced changes in starch molecular and crystalline structures in sugar-snap cookies. *Carbohydrate Polymers*, **2021**, 256, 117518	10.3	7
493	The importance of glycogen molecular structure for blood glucose control. *IScience*, **2021**, 24, 101953	6.1	3
492	Sensory design in food 3D printing Structuring, texture modulation, taste localization, and thermal stabilization. *Innovative Food Science and Emerging Technologies*, **2021**, 72, 102743	6.8	5

491	Molecular-structure evolution during in vitro fermentation of granular high-amylose wheat starch is different to in vitro digestion. *Food Chemistry*, **2021**, 362, 130188	8.5	5
490	Starch structure-property relations in Australian wild rices compared to domesticated rices. *Carbohydrate Polymers*, **2021**, 271, 118412	10.3	0
489	Starch molecular fine structure is associated with protein composition in chickpea seed. *Carbohydrate Polymers*, **2021**, 272, 118489	10.3	1
488	Late-maturity □amylase (LMA) testing and its methodological challenges. *LWT - Food Science and Technology*, **2021**, 151, 112232	5.4	1
487	Late-Maturity Alpha-Amylase in Wheat () and Its Impact on Fresh White Sauce Qualities. *Foods*, **2021**, 10,	4.9	1
486	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	10.3	6
485	Fecal microbiota responses to rice RS3 are specific to amylose molecular structure. *Carbohydrate Polymers*, **2020**, 243, 116475	10.3	26
484	High-amylose wheat starch: Structural basis for water absorption and pasting properties. *Carbohydrate Polymers*, **2020**, 245, 116557	10.3	26
483	Effects of fasting on liver glycogen structure in rats with type 2 diabetes. *Carbohydrate Polymers*, **2020**, 237, 116144	10.3	4
482	Effects of Nonstarch Genetic Modifications on Starch Structure and Properties. *Foods*, **2020**, 9,	4.9	1
481	Investigating cooked rice textural properties by instrumental measurements. *Food Science and Human Wellness*, **2020**, 9, 130-135	8.3	9
480	Using Molecular Fine Structure to Identify Optimal Methods of Extracting Starch. *Starch/Staerke*, **2020**, 72, 1900214	2.3	9
479	The contribution of □glucan and starch fine structure to texture of oat-fortified wheat noodles. *Food Chemistry*, **2020**, 324, 126858	8.5	10
478	Characterization of glycogen molecular structure in the worm Caenorhabditis elegans. *Carbohydrate Polymers*, **2020**, 237, 116181	10.3	5
477	Effects of amylose and amylopectin fine structure on sugar-snap cookie dough rheology and cookie quality. *Carbohydrate Polymers*, **2020**, 241, 116371	10.3	18
476	A molecular explanation of wheat starch physicochemical properties related to noodle eating quality. *Food Hydrocolloids*, **2020**, 108, 106035	10.6	20
475	Some molecular structural features of glycogen in the kidneys of diabetic rats. *Carbohydrate Polymers*, **2020**, 229, 115526	10.3	3
474	Dendrobium officinale polysaccharide ameliorates diabetic hepatic glucose metabolism via glucagon-mediated signaling pathways and modifying liver-glycogen structure. *Journal of Ethnopharmacology*, **2020**, 248, 112308	5	33

473	The effects of the chain-length distributions of starch molecules on rheological and thermal properties of wheat flour paste. *Food Hydrocolloids*, **2020**, 101, 105563	10.6	23
472	New insights into amylose and amylopectin biosynthesis in rice endosperm. *Carbohydrate Polymers*, **2020**, 230, 115656	10.3	17
471	Malt protein inhibition of β-amylase alters starch molecular structure during barley mashing. *Food Hydrocolloids*, **2020**, 100, 105423	10.6	5
470	Relations between digestibility and structures of pumpkin starches and pectins. *Food Hydrocolloids*, **2020**, 106, 105894	10.6	18
469	Starch branching enzymes contributing to amylose and amylopectin fine structure in wheat. *Carbohydrate Polymers*, **2019**, 224, 115185	10.3	20
468	A more general approach to fitting digestion kinetics of starch in food. *Carbohydrate Polymers*, **2019**, 225, 115244	10.3	29
467	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	7.9	15
466	Altering starch branching enzymes in wheat generates high-amylose starch with novel molecular structure and functional properties. *Food Hydrocolloids*, **2019**, 92, 51-59	10.6	53
465	Starch structure-property relations as a function of barley germination times. *International Journal of Biological Macromolecules*, **2019**, 136, 1125-1132	7.9	11
464	Molecular Structure of Glycogen in Escherichia coli. *Biomacromolecules*, **2019**, 20, 2821-2829	6.9	12
463	Relations between changes in starch molecular fine structure and in thermal properties during rice grain storage. *Food Chemistry*, **2019**, 295, 484-492	8.5	32
462	Distribution of short to medium amylose chains are major controllers of in vitro digestion of retrograded rice starch. *Food Hydrocolloids*, **2019**, 96, 634-643	10.6	67
461	High-amylose rice: Starch molecular structural features controlling cooked rice texture and preference. *Carbohydrate Polymers*, **2019**, 219, 251-260	10.3	49
460	Mechanically and Thermally Induced Degradation and Modification of Cereal Biopolymers during Grinding. *Polymers*, **2019**, 11,	4.5	7
459	Modification of retrogradation property of rice starch by improved extrusion cooking technology. *Carbohydrate Polymers*, **2019**, 213, 192-198	10.3	17
458	Using starch molecular fine structure to understand biosynthesis-structure-property relations. *Trends in Food Science and Technology*, **2019**, 86, 530-536	15.3	52
457	The size dependence of the average number of branches in amylose. *Carbohydrate Polymers*, **2019**, 223, 115134	10.3	10
456	Relationship between the molecular structure of duckweed starch and its in vitro enzymatic degradation kinetics. *International Journal of Biological Macromolecules*, **2019**, 139, 244-251	7.9	4

455	Influence of heat treatment on starch structure and physicochemical properties of oats. *Journal of Cereal Science*, **2019**, 89, 102805	3.8	9
454	The Role of Pullulanase in Starch Biosynthesis, Structure, and Thermal Properties by Studying Sorghum with Increased Pullulanase Activity. *Starch/Staerke*, **2019**, 71, 1900072	2.3	7
453	A review: Reverse approach to analyze the impact of starch modification on the inflation and gas holding properties of wheat-based matrices. *Trends in Food Science and Technology*, **2019**, 91, 231-239	15.3	3
452	Characterizing the impact of starch and gluten-induced alterations on gelatinization behavior of physically modified model dough. *Food Chemistry*, **2019**, 301, 125276	8.5	6
451	Competition between Granule Bound Starch Synthase and Starch Branching Enzyme in Starch Biosynthesis. *Rice*, **2019**, 12, 96	5.8	12
450	Molecular structure-property relations controlling mashing performance of amylases as a function of barley grain size. *Amylase*, **2019**, 3, 1-18	0.8	2
449	Effects of active ingredients from traditional Chinese medicines on glycogen molecular structure in diabetic mice. *European Polymer Journal*, **2019**, 112, 67-72	5.2	11
448	The role of thermostable proteinaceous □amylase inhibitors in slowing starch digestion in pasta. *Food Hydrocolloids*, **2019**, 90, 241-247	10.6	27
447	Colloid chemistry approach to understand the storage stability of fermented carrot juice. *Food Hydrocolloids*, **2019**, 89, 623-630	10.6	13
446	Characterizing Starch Molecular Structure of Rice. *Methods in Molecular Biology*, **2019**, 1892, 169-185	1.4	1
445	Molecular brewing: Molecular structural effects involved in barley malting and mashing. *Carbohydrate Polymers*, **2019**, 206, 583-592	10.3	26
444	Autoclaved rice: The textural property and its relation to starch leaching and the molecular structure of leached starch. *Food Chemistry*, **2019**, 283, 199-205	8.5	11
443	How amylose molecular fine structure of rice starch affects functional properties. *Carbohydrate Polymers*, **2019**, 204, 24-31	10.3	94
442	Wheat dough imitating artificial dough system based on hydrocolloids and glass beads. *Journal of Food Engineering*, **2018**, 223, 144-151	6	10
441	Diurnal changes of glycogen molecular structure in healthy and diabetic mice. *Carbohydrate Polymers*, **2018**, 185, 145-152	10.3	24
440	Starch molecular structure: The basis for an improved understanding of cooked rice texture. *Carbohydrate Polymers*, **2018**, 195, 9-17	10.3	97
439	Proteomic Investigation of the Binding Agent between Liver Glycogen □Particles. *ACS Omega*, **2018**, 3, 3640-3645	3.9	25
438	Mechanisms of utilisation of arabinoxylans by a porcine faecal inoculum: competition and co-operation. *Scientific Reports*, **2018**, 8, 4546	4.9	18

437	Direct link between specific structural levels of starch and hydration properties. *Carbohydrate Polymers*, **2018**, 181, 159-166	10.3	9
436	The adsorption of β-amylase on barley proteins affects the in vitro digestion of starch in barley flour. *Food Chemistry*, **2018**, 241, 493-501	8.5	72
435	High-Pressure Treatment of Non-Hydrated Flour Affects Structural Characteristics and Hydration. *Foods*, **2018**, 7,	4.9	6
434	Starch and Plant Storage Polysaccharides **2018**, 149-165		
433	Mechanical wheat flour modification and its effect on protein network structure and dough rheology. *Food Chemistry*, **2018**, 248, 296-303	8.5	29
432	Mechanistic understanding of the relationships between molecular structure and emulsification properties of octenyl succinic anhydride (OSA) modified starches. *Food Hydrocolloids*, **2018**, 74, 168-175	10.6	32
431	Effects of the Starch Molecular Structures in Barley Malts and Rice Adjuncts on Brewing Performance. *Fermentation*, **2018**, 4, 103	4.7	20
430	Improved methodology for analyzing relations between starch digestion kinetics and molecular structure. *Food Chemistry*, **2018**, 264, 284-292	8.5	63
429	Exploring glycogen biosynthesis through Monte Carlo simulation. *International Journal of Biological Macromolecules*, **2018**, 116, 264-271	7.9	10
428	Effects of pectin on molecular structural changes in starch during digestion. *Food Hydrocolloids*, **2017**, 69, 10-18	10.6	49
427	The molecular structural features controlling stickiness in cooked rice, a major palatability determinant. *Scientific Reports*, **2017**, 7, 43713	4.9	59
426	Implications for biological function of lobe dependence of the molecular structure of liver glycogen. *European Polymer Journal*, **2017**, 90, 105-113	5.2	9
425	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	15.3	40
424	Molecular structures and properties of starches of Australian wild rice. *Carbohydrate Polymers*, **2017**, 172, 213-222	10.3	26
423	Molecular structural differences between maize leaf and endosperm starches. *Carbohydrate Polymers*, **2017**, 161, 10-15	10.3	11
422	Parameterizing amylose chain-length distributions for biosynthesis-structure-property relations. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 6813-6819	4.4	55
421	On the Role of Catabolic Enzymes in Biosynthetic Models of Glycogen Molecular Weight Distributions. *ACS Omega*, **2017**, 2, 5221-5227	3.9	2
420	Physicochemical and structural properties of pregelatinized starch prepared by improved extrusion cooking technology. *Carbohydrate Polymers*, **2017**, 175, 265-272	10.3	85

419	Drought-Proofing Barley (Hordeum vulgare): The Effects of Stay Green on Starch and Amylose Structure. *Cereal Chemistry*, **2017**, 94, 873-880	2.4	6
418	Effect of mechanically modified wheat flour on dough fermentation properties and bread quality. *European Food Research and Technology*, **2017**, 243, 287-296	3.4	20
417	Relationships between protein content, starch molecular structure and grain size in barley. *Carbohydrate Polymers*, **2017**, 155, 271-279	10.3	64
416	Recent progress toward understanding the role of starch biosynthetic enzymes in the cereal endosperm. *Amylase*, **2017**, 1,	0.8	25
415	Nanocomposites with functionalised polysaccharide nanocrystals through aqueous free radical polymerisation promoted by ozonolysis. *Carbohydrate Polymers*, **2016**, 135, 256-66	10.3	33
414	The importance of amylose and amylopectin fine structure for textural properties of cooked rice grains. *Food Chemistry*, **2016**, 196, 702-11	8.5	234
413	Relationships between amylopectin molecular structures and functional properties of different-sized fractions of normal and high-amylose maize starches. *Food Hydrocolloids*, **2016**, 52, 359-368	10.6	79
412	Amylopectin chain length distribution in grains of japonica rice as affected by nitrogen fertilizer and genotype. *Journal of Cereal Science*, **2016**, 71, 230-238	3.8	25
411	Compact structure and proteins of pasta retard in vitro digestive evolution of branched starch molecular structure. *Carbohydrate Polymers*, **2016**, 152, 441-449	10.3	51
410	A new non-degradative method to purify glycogen. *Carbohydrate Polymers*, **2016**, 147, 165-170	10.3	9
409	Structural characterizations and in vitro digestibility of acid-treated wrinkled and smooth pea starch (Pisum sativum L.). *Starch/Staerke*, **2016**, 68, 762-770	2.3	11
408	A broad-standard technique for correcting for band broadening in size-exclusion chromatography. *Journal of Chromatography A*, **2016**, 1443, 267-71	4.5	2
407	Instrumental measurement of cooked rice texture by dynamic rheological testing and its relation to the fine structure of rice starch. *Carbohydrate Polymers*, **2016**, 146, 253-63	10.3	65
406	Progress in controlling starch structure by modifying starch-branching enzymes. *Planta*, **2016**, 243, 13-22	4.7	28
405	Starch gluten interactions during gelatinization and its functionality in dough like model systems. *Food Hydrocolloids*, **2016**, 54, 196-201	10.6	90
404	Molecular Structure of Human-Liver Glycogen. *PLoS ONE*, **2016**, 11, e0150540	3.7	23
403	Molecular-size dependence of glycogen enzymatic degradation and its importance for diabetes. *European Polymer Journal*, **2016**, 82, 175-180	5.2	24
402	Biodegradation of starch films: the roles of molecular and crystalline structure. *Carbohydrate Polymers*, **2015**, 122, 115-22	10.3	35

401	Drought-proofing barley (Hordeum vulgare) and its impact on grain quality: A review. *Journal of the Institute of Brewing*, **2015**, 121, 19-27	2	16
400	Diurnal changes in Sorghum leaf starch molecular structure. *Plant Science*, **2015**, 239, 147-54	5.3	23
399	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	10.3	64
398	Binding of Starch Fragments to the Starch Branching Enzyme: Implications for Developing Slower-Digesting Starch. *Biomacromolecules*, **2015**, 16, 2475-81	6.9	5
397	Characterization of the time evolution of starch structure from rice callus. *Carbohydrate Polymers*, **2015**, 127, 116-23	10.3	11
396	Roles of GBSSI and SSIIa in determining amylose fine structure. *Carbohydrate Polymers*, **2015**, 127, 264-74	10.3	44
395	Molecular structure of glycogen in diabetic liver. *Glycoconjugate Journal*, **2015**, 32, 113-8	3	36
394	The Mechanism for Stopping Chain and Total-Molecule Growth in Complex Branched Polymers, Exemplified by Glycogen. *Biomacromolecules*, **2015**, 16, 1870-2	6.9	15
393	SEC Analysis of Poly(Acrylic Acid) and Poly(Methacrylic Acid). *Macromolecular Chemistry and Physics*, **2015**, 216, 23-37	2.6	33
392	A rapid extraction method for glycogen from formalin-fixed liver. *Carbohydrate Polymers*, **2015**, 118, 9-15	10.3	22
391	Establishing whether the structural feature controlling the mechanical properties of starch films is molecular or crystalline. *Carbohydrate Polymers*, **2015**, 117, 262-270	10.3	24
390	The effects of variable nitrogen application on barley starch structure under drought stress. *Journal of the Institute of Brewing*, **2015**, 121, 502-509	2	29
389	Combined techniques for characterising pasta structure reveals how the gluten network slows enzymic digestion rate. *Food Chemistry*, **2015**, 188, 559-68	8.5	125
388	Improved understanding of rice amylose biosynthesis from advanced starch structural characterization. *Rice*, **2015**, 8, 55	5.8	19
387	Acid hydrolysis and molecular density of phytoglycogen and liver glycogen helps understand the bonding in glycogen α(composite) particles. *PLoS ONE*, **2015**, 10, e0121337	3.7	32
386	The characterization of modified starch branching enzymes: toward the control of starch chain-length distributions. *PLoS ONE*, **2015**, 10, e0125507	3.7	18
385	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, 1088-93	3	17
384	Changes in glycogen structure over feeding cycle sheds new light on blood-glucose control. *Biomacromolecules*, **2014**, 15, 660-5	6.9	38

383	Structural Changes of Starch Molecules in Barley Grains During Germination. *Cereal Chemistry*, **2014**, 91, 431-437	2.4	22
382	Exploring extraction/dissolution procedures for analysis of starch chain-length distributions. *Carbohydrate Polymers*, **2014**, 114, 36-42	10.3	114
381	Variation in amylose fine structure of starches from different botanical sources. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 4443-53	5.7	104
380	Two-dimensional macromolecular distributions reveal detailed architectural features in high-amylose starches. *Carbohydrate Polymers*, **2014**, 113, 539-51	10.3	33
379	Causal Relations Among Starch Biosynthesis, Structure, and Properties. *Springer Science Reviews*, **2014**, 2, 15-33		39
378	Causal relations between structural features of amylopectin, a semicrystalline hyperbranched polymer. *Biomacromolecules*, **2014**, 15, 2501-11	6.9	27
377	Shear degradation of molecular, crystalline, and granular structures of starch during extrusion. *Starch/Staerke*, **2014**, 66, 595-605	2.3	74
376	Aggregate and emulsion properties of enzymatically-modified octenylsuccinylated waxy starches. *Carbohydrate Polymers*, **2014**, 111, 918-27	10.3	15
375	Improving size-exclusion chromatography separation for glycogen. *Journal of Chromatography A*, **2014**, 1332, 21-9	4.5	27
374	Extraction, isolation and characterisation of phytoglycogen from su-1 maize leaves and grain. *Carbohydrate Polymers*, **2014**, 101, 423-31	10.3	30
373	Pea starch (Pisum sativum L.) with slow digestion property produced using □amylase and transglucosidase. *Food Chemistry*, **2014**, 164, 317-23	8.5	35
372	Structures of octenylsuccinylated starches: effects on emulsions containing □carotene. *Carbohydrate Polymers*, **2014**, 112, 85-93	10.3	28
371	The Molecular Size Distribution of Glycogen and its Relevance to Diabetes. *Australian Journal of Chemistry*, **2014**, 67, 538	1.2	11
370	New perspectives on the role of □and □amylases in transient starch synthesis. *PLoS ONE*, **2014**, 9, e100498	3.7	21
369	Effects of Rice Variety and Growth Location in Cambodia on Grain Composition and Starch Structure. *Rice Science*, **2014**, 21, 47-58	3.8	12
368	Improving human health through understanding the complex structure of glucose polymers. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 8969-80	4.4	32
367	Molecular structure of starch in grains is not affected by common dwarfing genes in rice (sd1) and sorghum (dw3). *Starch/Staerke*, **2013**, 65, 822-830	2.3	3
366	Barley genotype expressing □stay-green□like characteristics maintains starch quality of the grain during water stress condition. *Journal of Cereal Science*, **2013**, 58, 414-419	3.8	30

365	Structure and physicochemical properties of octenyl succinic anhydride modified starches: a review. *Carbohydrate Polymers*, **2013**, 92, 905-20	10.3	381
364	The importance of amylose and amylopectin fine structures for starch digestibility in cooked rice grains. *Food Chemistry*, **2013**, 136, 742-9	8.5	221
363	Effect of octenylsuccinic anhydride modification on α-amylolysis of starch. *Carbohydrate Polymers*, **2013**, 97, 9-17	10.3	23
362	The influence of macromolecular architecture on the critical aggregation concentration of large amphiphilic starch derivatives. *Food Hydrocolloids*, **2013**, 31, 365-374	10.6	36
361	Insights into Sorghum Starch Biosynthesis from Structure Changes Induced by Different Growth Temperatures. *Cereal Chemistry*, **2013**, 90, 223-230	2.4	21
360	Characterization Methods for Starch-Based Materials: State of the Art and Perspectives. *Australian Journal of Chemistry*, **2013**, 66, 1550	1.2	41
359	What Is Being Learned About Starch Properties from Multiple-Level Characterization. *Cereal Chemistry*, **2013**, 90, 312-325	2.4	44
358	A parameterized model of amylopectin synthesis provides key insights into the synthesis of granular starch. *PLoS ONE*, **2013**, 8, e65768	3.7	98
357	Molecular insights into glycogen β-particle formation. *Biomacromolecules*, **2012**, 13, 3805-13	6.9	34
356	Relations between molecular, crystalline, and lamellar structures of amylopectin. *Biomacromolecules*, **2012**, 13, 4273-82	6.9	95
355	The structure of cardiac glycogen in healthy mice. *International Journal of Biological Macromolecules*, **2012**, 51, 887-91	7.9	31
354	Amylose content in starches: Toward optimal definition and validating experimental methods. *Carbohydrate Polymers*, **2012**, 88, 103-111	10.3	148
353	Kinetic analysis of bile salt passage across a dialysis membrane in the presence of cereal soluble dietary fibre polymers. *Food Chemistry*, **2012**, 134, 2007-13	8.5	25
352	Household Rice Choice and Consumption Behavior Across Agro-Climatic Zones of Cambodia. *Journal of Hunger and Environmental Nutrition*, **2012**, 7, 333-346	1.5	7
351	Effect of a gibberellin-biosynthesis inhibitor treatment on the physicochemical properties of sorghum starch. *Journal of Cereal Science*, **2011**, 53, 328-334	3.8	44
350	Diffusion and rheology characteristics of barley mixed linkage β-glucan and possible implications for digestion. *Carbohydrate Polymers*, **2011**, 86, 1732-1738	10.3	37
349	Size-separation characterization of starch and glycogen for biosynthesis-structure-property relationships. *Analytical and Bioanalytical Chemistry*, **2011**, 399, 1425-38	4.4	43
348	Starch re-crystallization kinetics as a function of various cations. *Starch/Staerke*, **2011**, 63, 792-800	2.3	46

347	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, 3964-73	5.7	125
346	New (1)h NMR procedure for the characterization of native and modified food-grade starches. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 6913-9	5.7	136
345	Molecular structural differences between type-2-diabetic and healthy glycogen. *Biomacromolecules* , **2011**, 12, 1983-6	6.9	31
344	Starch granule characterization by kinetic analysis of their stages during enzymic hydrolysis: 1H nuclear magnetic resonance studies. *Carbohydrate Polymers*, **2011**, 83, 1775-1786	10.3	12
343	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, 4434-44	4.5	19
342	Rate coefficients for enzyme-catalyzed reactions from molecular weight distributions. *Polymer*, **2011**, 52, 1490-1494	3.9	8
341	Metal Binding by Water-Soluble Polychelates and Implications for Agriculture. *Australian Journal of Chemistry*, **2011**, 64, 1593	1.2	1
340	Terminology of polymers and polymerization processes in dispersed systems (IUPAC Recommendations 2011). *Pure and Applied Chemistry*, **2011**, 83, 2229-2259	2.1	161
339	Two-Dimensional Size/Branch Length Distributions of a Branched Polymer. *Macromolecules*, **2010**, 43, 7321-7329	5.5	133
338	In vivo and in vitro starch digestion: are current in vitro techniques adequate?. *Biomacromolecules*, **2010**, 11, 3600-8	6.9	110
337	Mechanism of Degradation of Starch, a Highly Branched Polymer, during Extrusion. *Macromolecules* , **2010**, 43, 2855-2864	5.5	183
336	Starch digestion mechanistic information from the time evolution of molecular size distributions. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 8444-52	5.7	60
335	Molecular weight distributions of starch branches reveal genetic constraints on biosynthesis. *Biomacromolecules*, **2010**, 11, 3539-47	6.9	79
334	Nature of alpha and beta particles in glycogen using molecular size distributions. *Biomacromolecules*, **2010**, 11, 1094-100	6.9	58
333	Accelerated testing of nutrient release rates from fertiliser granules. *Soil Research*, **2010**, 48, 668	1.8	
332	Characterization of branched polysaccharides using multiple-detection size separation techniques. *Journal of Separation Science*, **2010**, 33, 3537-54	3.4	179
331	Mechanistic study of the formation of amphiphilic core–shell particles by grafting methyl methacrylate from polyethylenimine through emulsion polymerization. *Polymer*, **2010**, 51, 3512-3519	3.9	27
330	Using chain-length distributions to diagnose genetic diversity in starch biosynthesis. *Carbohydrate Polymers*, **2010**, 81, 120-127	10.3	21

329	Reliable measurements of the size distributions of starch molecules in solution: Current dilemmas and recommendations. *Carbohydrate Polymers*, **2010**, 79, 255-261	10.3	110
328	Digestion of starch: In vivo and in vitro kinetic models used to characterise oligosaccharide or glucose release. *Carbohydrate Polymers*, **2010**, 80, 599-617	10.3	241
327	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	10.3	30
326	Diffusion and viscosity in arabinoxylan solutions: Implications for nutrition. *Carbohydrate Polymers*, **2010**, 82, 46-53	10.3	56
325	Characterizing the Size and Molecular Weight Distribution of Starch: Why It Is Important and Why It Is Hard. *Cereal Foods World*, **2010**,	2	3
324	Ian Gordon Ross 1926 - 2006. *Historical Records of Australian Science*, **2009**, 20, 91	0.2	1
323	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	3.8	181
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