Michael Gidley

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

231
papers

13,307
citations

64
h-index

9-index

238
ext. papers

7.3
ext. citations

238
avg, IF

L-index

#	Paper	IF	Citations
231	Absolute abundance values reveal microbial shifts and co-occurrence patterns during gut microbiota fermentation of dietary fibres in vitro. <i>Food Hydrocolloids</i> , 2022 , 127, 107422	10.6	1
230	In vitro fermentation of onion cell walls and model polysaccharides using human faecal inoculum: Effects of molecular interactions and cell wall architecture. <i>Food Hydrocolloids</i> , 2022 , 124, 107257	10.6	1
229	Effect of processing on the solubility and molecular size of oat Eglucan and consequences for starch digestibility of oat-fortified noodles. <i>Food Chemistry</i> , 2022 , 372, 131291	8.5	1
228	High-amylose wheat bread with reduced in vitro digestion rate and enhanced resistant starch content. <i>Food Hydrocolloids</i> , 2022 , 123, 107181	10.6	8
227	A preliminary study on the utilisation of near infrared spectroscopy to predict age and in vivo human metabolism. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022 , 265, 120312	4.4	4
226	Starch structure and exchangeable protons contribute to reduced aging of high-amylose wheat bread <i>Food Chemistry</i> , 2022 , 385, 132673	8.5	0
225	Soluble fibre concentration effects during in vitro fermentation: Higher concentration leads to increased butyrate proportion. <i>Food Hydrocolloids</i> , 2022 , 107728	10.6	1
224	Integrating Effects of Human Physiology, Psychology, and Individual Variations on Satiety-An Exploratory Study <i>Frontiers in Nutrition</i> , 2022 , 9, 872169	6.2	1
223	Shedding light on human tissue (in vivo) to predict satiation, satiety, and food intake using near infrared reflectance spectroscopy: A preliminary study. <i>Innovative Food Science and Emerging Technologies</i> , 2022 , 78, 103033	6.8	1
222	Pasting properties of high-amylose wheat in conventional and high-temperature Rapid Visco Analyzer: Molecular contribution of starch and gluten proteins. <i>Food Hydrocolloids</i> , 2022 , 131, 107840	10.6	O
221	Interaction of cellulose and xyloglucan influences in vitro fermentation outcomes. <i>Carbohydrate Polymers</i> , 2021 , 258, 117698	10.3	3
220	Wheat-based food form has a greater effect than amylose content on fermentation outcomes and microbial community shifts in an in vitro fermentation model. <i>Food Hydrocolloids</i> , 2021 , 114, 106560	10.6	3
219	Towards personalised saliva spectral fingerprints: Comparison of mid infrared spectra of dried and whole saliva samples. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 253, 119569	4.4	4
218	Interplay between grain digestion and fibre in relation to gastro-small-intestinal passage rate and feed intake in pigs. <i>European Journal of Nutrition</i> , 2021 , 60, 4001-4017	5.2	2
217	Structural reasons for inhibitory effects of pectin on the mylase enzyme activity and in-vitro digestibility of starch. <i>Food Hydrocolloids</i> , 2021 , 114, 106581	10.6	5
216	Protein-starch matrix plays a key role in enzymic digestion of high-amylose wheat noodle. <i>Food Chemistry</i> , 2021 , 336, 127719	8.5	21
215	Pectin and mango pulp both reduce plasma cholesterol in pigs but have different effects on triglycerides and bile acids. <i>Food Hydrocolloids</i> , 2021 , 112, 106369	10.6	5

214	Depletion and bridging flocculation of oil droplets in the presence of Eglucan, arabinoxylan and pectin polymers: Effects on lipolysis. <i>Carbohydrate Polymers</i> , 2021 , 255, 117491	10.3	2
213	In vitro fermentation of legume cells and components: Effects of cell encapsulation and starch/protein interactions. <i>Food Hydrocolloids</i> , 2021 , 113, 106538	10.6	3
212	Wheat cell walls and constituent polysaccharides induce similar microbiota profiles upon fermentation despite different short chain fatty acid end-product levels. <i>Food and Function</i> , 2021 , 12, 1135-1146	6.1	3
211	Nutritional, anti-nutritional, antioxidant, physicochemical and functional characterization of Australian acacia seed: effect of species and regions. <i>Journal of the Science of Food and Agriculture</i> , 2021 , 101, 4681-4690	4.3	2
210	Isolated pectin (apple) and fruit pulp (mango) impact gastric emptying, passage rate and short chain fatty acid (SCFA) production differently along the pig gastrointestinal tract. <i>Food Hydrocolloids</i> , 2021 , 118, 106723	10.6	3
209	Exploring the relationships between oral sensory physiology and oral processing with mid infrared spectra of saliva. <i>Food Hydrocolloids</i> , 2021 , 120, 106896	10.6	2
208	Molecular-structure evolution during in vitro fermentation of granular high-amylose wheat starch is different to in vitro digestion. <i>Food Chemistry</i> , 2021 , 362, 130188	8.5	5
207	Fermentation outcomes of wheat cell wall related polysaccharides are driven by substrate effects as well as initial faecal inoculum. <i>Food Hydrocolloids</i> , 2021 , 120, 106978	10.6	0
206	Multiple length scale structure-property relationships of wheat starch oxidized by sodium hypochlorite or hydrogen peroxide. <i>Carbohydrate Polymer Technologies and Applications</i> , 2021 , 2, 1001	4 7 ·7	0
205	High amylose wheat starch structures display unique fermentability characteristics, microbial community shifts and enzyme degradation profiles. <i>Food and Function</i> , 2020 , 11, 5635-5646	6.1	19
204	High-amylose wheat starch: Structural basis for water absorption and pasting properties. <i>Carbohydrate Polymers</i> , 2020 , 245, 116557	10.3	26
203	Starch granular protein of high-amylose wheat gives innate resistance to amylolysis. <i>Food Chemistry</i> , 2020 , 330, 127328	8.5	10
202	High-amylose wheat and maize starches have distinctly different granule organization and annealing behaviour: A key role for chain mobility. <i>Food Hydrocolloids</i> , 2020 , 105, 105820	10.6	16
201	Intrinsic grain starch digestibility affects the concentration of faecal markers of colonic fermentation and bodyweight gain without affecting feed intake in pigs. <i>Animal Feed Science and Technology</i> , 2020 , 268, 114599	3	2
200	Cereal dietary fibres influence retention time of digesta solid and liquid phases along the gastrointestinal tract. <i>Food Hydrocolloids</i> , 2020 , 104, 105739	10.6	13
199	Independent fermentation and metabolism of dietary polyphenols associated with a plant cell wall model. <i>Food and Function</i> , 2020 , 11, 2218-2230	6.1	10
198	Barley Eglucan effects on emulsification and in vitro lipolysis of canola oil are modulated by molecular size, mixing method, and emulsifier type. <i>Food Hydrocolloids</i> , 2020 , 103, 105643	10.6	7
197	The contribution of Eglucan and starch fine structure to texture of oat-fortified wheat noodles. <i>Food Chemistry</i> , 2020 , 324, 126858	8.5	10

196	Functional Genomic Validation of the Roles of in Rice Endosperm. <i>Frontiers in Genetics</i> , 2020 , 11, 289	4.5	6
195	Cell wall architecture as well as chemical composition determines fermentation of wheat cell walls by a faecal inoculum. <i>Food Hydrocolloids</i> , 2020 , 107, 105858	10.6	13
194	Formation of Cellulose-Based Composites with Hemicelluloses and Pectins Using Komagataeibacter Fermentation. <i>Methods in Molecular Biology</i> , 2020 , 2149, 73-87	1.4	О
193	fermentation outcomes of arabinoxylan and galactoxyloglucan depend on fecal inoculum more than substrate chemistry. <i>Food and Function</i> , 2020 , 11, 7892-7904	6.1	10
192	Purified plant cell walls with adsorbed polyphenols alter porcine faecal bacterial communities during in vitro fermentation. <i>Food and Function</i> , 2020 , 11, 834-845	6.1	8
191	In Vitro Digestion of Apple Tissue Using a Dynamic Stomach Model: Grinding and Crushing Effects on Polyphenol Bioaccessibility. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 574-583	5.7	9
190	Wood hemicelluloses exert distinct biomechanical contributions to cellulose fibrillar networks. <i>Nature Communications</i> , 2020 , 11, 4692	17.4	43
189	Starch branching enzymes contributing to amylose and amylopectin fine structure in wheat. <i>Carbohydrate Polymers</i> , 2019 , 224, 115185	10.3	20
188	A more general approach to fitting digestion kinetics of starch in food. <i>Carbohydrate Polymers</i> , 2019 , 225, 115244	10.3	29
187	Location and interactions of starches in planta: Effects on food and nutritional functionality. <i>Trends in Food Science and Technology</i> , 2019 , 93, 158-166	15.3	42
186	Altering starch branching enzymes in wheat generates high-amylose starch with novel molecular structure and functional properties. <i>Food Hydrocolloids</i> , 2019 , 92, 51-59	10.6	53
185	High-Amylose Starches to Bridge the "Fiber Gap": Development, Structure, and Nutritional Functionality. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2019 , 18, 362-379	16.4	99
184	Mechanism of binding interactions between young apple polyphenols and porcine pancreatic ⊞mylase. <i>Food Chemistry</i> , 2019 , 283, 468-474	8.5	28
183	Review: Effects of fibre, grain starch digestion rate and the ileal brake on voluntary feed intake in pigs. <i>Animal</i> , 2019 , 13, 2745-2754	3.1	18
182	"Dietary fibre": moving beyond the "soluble/insoluble" classification for monogastric nutrition, with an emphasis on humans and pigs. <i>Journal of Animal Science and Biotechnology</i> , 2019 , 10, 45	6	57
181	Interactions of arabinogalactans with bacterial cellulose during its synthesis: Structure and physical properties. <i>Food Hydrocolloids</i> , 2019 , 96, 644-652	10.6	2
180	Cellular barriers in apple tissue regulate polyphenol release under different food processing and in vitro digestion conditions. <i>Food and Function</i> , 2019 , 10, 3008-3017	6.1	11
179	Microbial enzymatic degradation of tamarind galactoxyloglucan and wheat arabinoxylan by a porcine faecal inoculum. <i>Bioactive Carbohydrates and Dietary Fibre</i> , 2019 , 18, 100183	3.4	1

(2018-2019)

178	Natural products for glycaemic control: Polyphenols as inhibitors of alpha-amylase. <i>Trends in Food Science and Technology</i> , 2019 , 91, 262-273	15.3	64
177	Wheat bran and oat hulls have dose-dependent effects on ad-libitum feed intake in pigs related to digesta hydration and colonic fermentation. <i>Food and Function</i> , 2019 , 10, 8298-8308	6.1	5
176	Functional categorisation of dietary fibre in foods: Beyond Boluble Dvs Insoluble Trends in Food Science and Technology, 2019 , 86, 563-568	15.3	56
175	Wall porosity in isolated cells from food plants: Implications for nutritional functionality. <i>Food Chemistry</i> , 2019 , 279, 416-425	8.5	32
174	The role of thermostable proteinaceous hmylase inhibitors in slowing starch digestion in pasta. <i>Food Hydrocolloids</i> , 2019 , 90, 241-247	10.6	27
173	Partial replacement of meat by sugar cane fibre: cooking characteristics, sensory properties of beef burgers and in vitro fermentation of sugar cane fibre. <i>International Journal of Food Science and Technology</i> , 2019 , 54, 1760-1768	3.8	8
172	Probing adhesion between nanoscale cellulose fibres using AFM lateral force spectroscopy: The effect of hemicelluloses on hydrogen bonding. <i>Carbohydrate Polymers</i> , 2019 , 208, 97-107	10.3	10
171	Molecular brewing: Molecular structural effects involved in barley malting and mashing. <i>Carbohydrate Polymers</i> , 2019 , 206, 583-592	10.3	26
170	Adsorption isotherm studies on the interaction between polyphenols and apple cell walls: Effects of variety, heating and drying. <i>Food Chemistry</i> , 2019 , 282, 58-66	8.5	23
169	Rheological characterisation of cell walls from wheat flour and endosperm: Effects of diferulate crosslink hydrolysis. <i>Food Hydrocolloids</i> , 2019 , 88, 265-271	10.6	3
168	Intact cellular structure in cereal endosperm limits starch digestion in vitro. <i>Food Hydrocolloids</i> , 2018 , 81, 139-148	10.6	46
167	Mechanical properties of bacterial cellulose synthesised by diverse strains of the genus Komagataeibacter. <i>Food Hydrocolloids</i> , 2018 , 81, 87-95	10.6	52
166	Mucin gel assembly is controlled by a collective action of non-mucin proteins, disulfide bridges, Ca-mediated links, and hydrogen bonding. <i>Scientific Reports</i> , 2018 , 8, 5802	4.9	45
165	Accounting for the effect of degree of milling on rice protein extraction in an industrial setting. <i>Food Chemistry</i> , 2018 , 253, 221-226	8.5	8
164	Dietary pectin and mango pulp effects on small intestinal enzyme activity levels and macronutrient digestion in grower pigs. <i>Food and Function</i> , 2018 , 9, 991-999	6.1	12
163	Modelling of Thermal Sterilisation of High-Moisture Snack Foods: Feasibility Analysis and Optimization. <i>Food and Bioprocess Technology</i> , 2018 , 11, 979-990	5.1	1
162	Viscoelastic properties of pectin/cellulose composites studied by QCM-D and oscillatory shear rheology. <i>Food Hydrocolloids</i> , 2018 , 79, 13-19	10.6	16
161	In vitro fermentation gas kinetics and end-products of soluble and insoluble cereal flour dietary fibres are similar. <i>Food and Function</i> , 2018 , 9, 898-905	6.1	17

160	Tea polyphenols enhance binding of porcine pancreatic the mylase with starch granules but reduce catalytic activity. <i>Food Chemistry</i> , 2018 , 258, 164-173	8.5	33
159	Mechanisms of utilisation of arabinoxylans by a porcine faecal inoculum: competition and co-operation. <i>Scientific Reports</i> , 2018 , 8, 4546	4.9	18
158	Microstructural properties of potato chips. <i>Food Structure</i> , 2018 , 16, 17-26	4.3	13
157	Protection of Hamylase from proteolysis by adsorption to feed components in vitro and in the porcine small intestine. <i>Animal Production Science</i> , 2018 , 58, 640	1.4	1
156	Dietary fibre for glycaemia control: Towards a mechanistic understanding. <i>Bioactive Carbohydrates and Dietary Fibre</i> , 2018 , 14, 39-53	3.4	61
155	Cell wall biomechanics: a tractable challenge in manipulating plant cell walls 'fit for purpose'!. <i>Current Opinion in Biotechnology</i> , 2018 , 49, 163-171	11.4	23
154	The adsorption of hmylase on barley proteins affects the in vitro digestion of starch in barley flour. <i>Food Chemistry</i> , 2018 , 241, 493-501	8.5	72
153	Male grower pigs fed cereal soluble dietary fibres display biphasic glucose response and delayed glycaemic response after an oral glucose tolerance test. <i>PLoS ONE</i> , 2018 , 13, e0193137	3.7	4
152	Soluble polysaccharides reduce binding and inhibitory activity of tea polyphenols against porcine pancreatic hmylase. <i>Food Hydrocolloids</i> , 2018 , 79, 63-70	10.6	28
151	Extracellular depolymerisation triggers fermentation of tamarind xyloglucan and wheat arabinoxylan by a porcine faecal inoculum. <i>Carbohydrate Polymers</i> , 2018 , 201, 575-582	10.3	19
150	Quantitative structural organisation model for wheat endosperm cell walls: Cellulose as an important constituent. <i>Carbohydrate Polymers</i> , 2018 , 196, 199-208	10.3	41
149	Food Starch Structure Impacts Gut Microbiome Composition. <i>MSphere</i> , 2018 , 3,	5	72
148	Anti-staling of high-moisture starchy food: Effect of hydrocolloids, emulsifiers and enzymes on mechanics of steamed-rice cakes. <i>Food Hydrocolloids</i> , 2018 , 83, 454-464	10.6	28
147	Apparent amylase diffusion rates in milled cereal grains determined in vitro: potential relevance to digestion in the small intestine of pigs. <i>Journal of Cereal Science</i> , 2018 , 82, 42-48	3.8	8
146	Complexity and health functionality of plant cell wall fibers from fruits and vegetables. <i>Critical Reviews in Food Science and Nutrition</i> , 2017 , 57, 59-81	11.5	121
145	Mechanisms of starch digestion by https://www.ammylase-Structural basis for kinetic properties. <i>Critical Reviews in Food Science and Nutrition</i> , 2017 , 57, 875-892	11.5	2 10
144	Characterisation of bacterial cellulose from diverse Komagataeibacter strains and their application to construct plant cell wall analogues. <i>Cellulose</i> , 2017 , 24, 1211-1226	5.5	17
143	In vitro digestion of pectin- and mango-enriched diets using a dynamic rat stomach-duodenum model. <i>Journal of Food Engineering</i> , 2017 , 202, 65-78	6	41

(2017-2017)

142	Cellulose-pectin composite hydrogels: Intermolecular interactions and material properties depend on order of assembly. <i>Carbohydrate Polymers</i> , 2017 , 162, 71-81	10.3	36
141	Isolation of wheat endosperm cell walls: Effects of non-endosperm flour components on structural analyses. <i>Journal of Cereal Science</i> , 2017 , 74, 165-173	3.8	18
140	Binding selectivity of dietary polyphenols to different plant cell wall components: Quantification and mechanism. <i>Food Chemistry</i> , 2017 , 233, 216-227	8.5	66
139	The mechanism of interactions between tea polyphenols and porcine pancreatic alpha-amylase: Analysis by inhibition kinetics, fluorescence quenching, differential scanning calorimetry and isothermal titration calorimetry. <i>Molecular Nutrition and Food Research</i> , 2017 , 61, 1700324	5.9	52
138	Digestion of isolated legume cells in a stomach-duodenum model: three mechanisms limit starch and protein hydrolysis. <i>Food and Function</i> , 2017 , 8, 2573-2582	6.1	81
137	Opportunities and Challenges in Processing of By-product of Rice Milling Protein as a Food Ingredient. <i>Cereal Chemistry</i> , 2017 , 94, 369-376	2.4	4
136	Gut Fermentation of Dietary Fibres: Physico-Chemistry of Plant Cell Walls and Implications for Health. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	97
135	Multi-scale characterisation of deuterated cellulose composite hydrogels reveals evidence for different interaction mechanisms with arabinoxylan, mixed-linkage glucan and xyloglucan. <i>Polymer</i> , 2017 , 124, 1-11	3.9	18
134	Hydrogen bonds and twist in cellulose microfibrils. <i>Carbohydrate Polymers</i> , 2017 , 175, 433-439	10.3	35
133	Structure of cellulose microfibrils in mature cotton fibres. <i>Carbohydrate Polymers</i> , 2017 , 175, 450-463	10.3	44
133	Structure of cellulose microfibrils in mature cotton fibres. <i>Carbohydrate Polymers</i> , 2017 , 175, 450-463 Dietary polyphenols bind to potato cells and cellular components. <i>Journal of Functional Foods</i> , 2017 , 37, 283-292	10.3	20
	Dietary polyphenols bind to potato cells and cellular components. <i>Journal of Functional Foods</i> , 2017		
132	Dietary polyphenols bind to potato cells and cellular components. <i>Journal of Functional Foods</i> , 2017 , 37, 283-292 Mucoadhesive functionality of cell wall structures from fruits and grains: Electrostatic and polymer	5.1	20
132	Dietary polyphenols bind to potato cells and cellular components. <i>Journal of Functional Foods</i> , 2017 , 37, 283-292 Mucoadhesive functionality of cell wall structures from fruits and grains: Electrostatic and polymer network interactions mediated by soluble dietary polysaccharides. <i>Scientific Reports</i> , 2017 , 7, 15794 Regrinding large particles from milled grains improves growth performance of pigs. <i>Animal Feed</i>	5.1 4.9	20
132 131 130	Dietary polyphenols bind to potato cells and cellular components. <i>Journal of Functional Foods</i> , 2017 , 37, 283-292 Mucoadhesive functionality of cell wall structures from fruits and grains: Electrostatic and polymer network interactions mediated by soluble dietary polysaccharides. <i>Scientific Reports</i> , 2017 , 7, 15794 Regrinding large particles from milled grains improves growth performance of pigs. <i>Animal Feed Science and Technology</i> , 2017 , 233, 53-63 Relationships between protein content, starch molecular structure and grain size in barley.	5.1 4.9 3	20 18 7
132 131 130	Dietary polyphenols bind to potato cells and cellular components. <i>Journal of Functional Foods</i> , 2017 , 37, 283-292 Mucoadhesive functionality of cell wall structures from fruits and grains: Electrostatic and polymer network interactions mediated by soluble dietary polysaccharides. <i>Scientific Reports</i> , 2017 , 7, 15794 Regrinding large particles from milled grains improves growth performance of pigs. <i>Animal Feed Science and Technology</i> , 2017 , 233, 53-63 Relationships between protein content, starch molecular structure and grain size in barley. <i>Carbohydrate Polymers</i> , 2017 , 155, 271-279 Adsorption behaviour of polyphenols on cellulose is affected by processing history. <i>Food</i>	5.1 4.9 3	20 18 7 64
132 131 130 129	Dietary polyphenols bind to potato cells and cellular components. <i>Journal of Functional Foods</i> , 2017 , 37, 283-292 Mucoadhesive functionality of cell wall structures from fruits and grains: Electrostatic and polymer network interactions mediated by soluble dietary polysaccharides. <i>Scientific Reports</i> , 2017 , 7, 15794 Regrinding large particles from milled grains improves growth performance of pigs. <i>Animal Feed Science and Technology</i> , 2017 , 233, 53-63 Relationships between protein content, starch molecular structure and grain size in barley. <i>Carbohydrate Polymers</i> , 2017 , 155, 271-279 Adsorption behaviour of polyphenols on cellulose is affected by processing history. <i>Food Hydrocolloids</i> , 2017 , 63, 496-507	5.1 4.9 3 10.3	20 18 7 64 38

124	Reduction in circulating bile acid and restricted diffusion across the intestinal epithelium are associated with a decrease in blood cholesterol in the presence of oat Eglucan. <i>FASEB Journal</i> , 2016 , 30, 4227-4238	0.9	57
123	Composition and structure of tuber cell walls affect in vitro digestibility of potato (Solanum tuberosum L.). <i>Food and Function</i> , 2016 , 7, 4202-4212	6.1	15
122	Circulating triglycerides and bile acids are reduced by a soluble wheat arabinoxylan via modulation of bile concentration and lipid digestion rates in a pig model. <i>Molecular Nutrition and Food Research</i> , 2016 , 60, 642-51	5.9	38
121	Compact structure and proteins of pasta retard in vitro digestive evolution of branched starch molecular structure. <i>Carbohydrate Polymers</i> , 2016 , 152, 441-449	10.3	51
120	Interactions among macronutrients in wheat flour determine their enzymic susceptibility. <i>Food Hydrocolloids</i> , 2016 , 61, 415-425	10.6	62
119	Intactness of cell wall structure controls the in vitro digestion of starch in legumes. <i>Food and Function</i> , 2016 , 7, 1367-79	6.1	135
118	Soluble arabinoxylan enhances large intestinal microbial health biomarkers in pigs fed a red meat-containing diet. <i>Nutrition</i> , 2016 , 32, 491-7	4.8	23
117	Structural properties and digestion of green banana flour as a functional ingredient in pasta. <i>Food and Function</i> , 2016 , 7, 771-80	6.1	21
116	Hierarchical architecture of bacterial cellulose and composite plant cell wall polysaccharide hydrogels using small angle neutron scattering. <i>Soft Matter</i> , 2016 , 12, 1534-49	3.6	42
115	Mapping nano-scale mechanical heterogeneity of primary plant cell walls. <i>Journal of Experimental Botany</i> , 2016 , 67, 2799-816	7	28
114	Molecular interactions of a model bile salt and porcine bile with (1,3:1,4)-Eglucans and arabinoxylans probed by (13)C NMR and SAXS. <i>Food Chemistry</i> , 2016 , 197, 676-85	8.5	28
113	Infrared spectroscopy as a tool to characterise starch ordered structurea joint FTIR-ATR, NMR, XRD and DSC study. <i>Carbohydrate Polymers</i> , 2016 , 139, 35-42	10.3	294
112	Visualization of microbe-dietary remnant interactions in digesta from pigs, by fluorescence in situ hybridization and staining methods; effects of a dietary arabinoxylan-rich wheat fraction. <i>Food Hydrocolloids</i> , 2016 , 52, 952-962	10.6	8
111	Interactions of pectins with cellulose during its synthesis in the absence of calcium. <i>Food Hydrocolloids</i> , 2016 , 52, 57-68	10.6	53
110	Micromechanical model of biphasic biomaterials with internal adhesion: Application to nanocellulose hydrogel composites. <i>Acta Biomaterialia</i> , 2016 , 29, 149-160	10.8	25
109	Effects of diverse food processing conditions on the structure and solubility of wheat, barley and rye endosperm dietary fibre. <i>Journal of Food Engineering</i> , 2016 , 169, 228-237	6	32
108	Effects of cereal soluble dietary fibres on hydrolysis of p-nitrophenyl laurate by pancreatin. <i>Food and Function</i> , 2016 , 7, 3382-9	6.1	9
107	Investigation of the micro- and nano-scale architecture of cellulose hydrogels with plant cell wall polysaccharides: A combined USANS/SANS study. <i>Polymer</i> , 2016 , 105, 449-460	3.9	24

(2015-2016)

106	Re-evaluation of the mechanisms of dietary fibre and implications for macronutrient bioaccessibility, digestion and postprandial metabolism. <i>British Journal of Nutrition</i> , 2016 , 116, 816-33	3.6	179
105	Interactions between polyphenols in thinned young apples and porcine pancreatic the mylase: Inhibition, detailed kinetics and fluorescence quenching. <i>Food Chemistry</i> , 2016 , 208, 51-60	8.5	96
104	Microbial biotransformation of polyphenols during in vitro colonic fermentation of masticated mango and banana. <i>Food Chemistry</i> , 2016 , 207, 214-22	8.5	16
103	Multi-scale model for the hierarchical architecture of native cellulose hydrogels. <i>Carbohydrate Polymers</i> , 2016 , 147, 542-555	10.3	36
102	Rheological and microstructural properties of porcine gastric digesta and diets containing pectin or mango powder. <i>Carbohydrate Polymers</i> , 2016 , 148, 216-26	10.3	32
101	Microstructure and mechanical properties of arabinoxylan and (1,3;1,4)-Eglucan gels produced by cryo-gelation. <i>Carbohydrate Polymers</i> , 2016 , 151, 862-870	10.3	17
100	3 or 3?-Galloyl substitution plays an important role in association of catechins and theaflavins with porcine pancreatic ⊞mylase: The kinetics of inhibition of ⊞mylase by tea polyphenols. <i>Journal of Functional Foods</i> , 2016 , 26, 144-156	5.1	84
99	Pectin impacts cellulose fibre architecture and hydrogel mechanics in the absence of calcium. <i>Carbohydrate Polymers</i> , 2016 , 153, 236-245	10.3	26
98	Polyphenoldellulose interactions: effects of pH, temperature and salt. <i>International Journal of Food Science and Technology</i> , 2016 , 51, 203-211	3.8	29
97	Effect of surfactant treatment on swelling behaviour of normal and waxy cereal starches. <i>Carbohydrate Polymers</i> , 2015 , 125, 265-71	10.3	6
96	Application of X-ray and neutron small angle scattering techniques to study the hierarchical structure of plant cell walls: a review. <i>Carbohydrate Polymers</i> , 2015 , 125, 120-34	10.3	70
95	Soluble arabinoxylan alters digesta flow and protein digestion of red meat-containing diets in pigs. <i>Nutrition</i> , 2015 , 31, 1141-7	4.8	20
94	Densely packed matrices as rate determining features in starch hydrolysis. <i>Trends in Food Science and Technology</i> , 2015 , 43, 18-31	15.3	94
93	Diffusion of macromolecules in self-assembled cellulose/hemicellulose hydrogels. <i>Soft Matter</i> , 2015 , 11, 4002-10	3.6	29
92	Interactions of arabinoxylan and (1,3)(1,4)-Eglucan with cellulose networks. <i>Biomacromolecules</i> , 2015 , 16, 1232-9	6.9	50
91	Binding of arabinan or galactan during cellulose synthesis is extensive and reversible. <i>Carbohydrate Polymers</i> , 2015 , 126, 108-21	10.3	34
90	Evidence for differential interaction mechanism of plant cell wall matrix polysaccharides in hierarchically-structured bacterial cellulose. <i>Cellulose</i> , 2015 , 22, 1541-1563	5.5	52
89	Unique aspects of the structure and dynamics of elementary IL ellulose microfibrils revealed by computational simulations. <i>Plant Physiology</i> , 2015 , 168, 3-17	6.6	63

88	Extrusion induced low-order starch matrices: Enzymic hydrolysis and structure. <i>Carbohydrate Polymers</i> , 2015 , 134, 485-96	10.3	43
87	Rheology and microstructure characterisation of small intestinal digesta from pigs fed a red meat-containing Western-style diet. <i>Food Hydrocolloids</i> , 2015 , 44, 300-308	10.6	27
86	Mastication effects on carotenoid bioaccessibility from mango fruit tissue. <i>Food Research International</i> , 2015 , 67, 238-246	7	33
85	Rice starch granule amylolysisdifferentiating effects of particle size, morphology, thermal properties and crystalline polymorph. <i>Carbohydrate Polymers</i> , 2015 , 115, 305-16	10.3	76
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