List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/761796/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	A Perspective on the Complexity of Dietary Fiber Structures and Their Potential Effect on the Gut Microbiota. Journal of Molecular Biology, 2014, 426, 3838-3850.	4.2	424
2	Fiber-utilizing capacity varies in Prevotella- versus Bacteroides-dominated gut microbiota. Scientific Reports, 2017, 7, 2594.	3.3	400
3	Slow Digestion Property of Native Cereal Starches. Biomacromolecules, 2006, 7, 3252-3258.	5.4	368
4	Slowly Digestible Starch: Concept, Mechanism, and Proposed Extended Glycemic Index. Critical Reviews in Food Science and Nutrition, 2009, 49, 852-867.	10.3	341
5	Prebiotics: why definitions matter. Current Opinion in Biotechnology, 2016, 37, 1-7.	6.6	326
6	Nature and consequences of non-covalent interactions between flavonoids and macronutrients in foods. Food and Function, 2014, 5, 18-34.	4.6	319
7	Dietary Modulation of Gut Microbiota Contributes to Alleviation of Both Genetic and Simple Obesity in Children. EBioMedicine, 2015, 2, 968-984.	6.1	306
8	Starch with a Slow Digestion Property Produced by Altering Its Chain Length, Branch Density, and Crystalline Structure. Journal of Agricultural and Food Chemistry, 2007, 55, 4540-4547.	5.2	243
9	Structural Basis for the Slow Digestion Property of Native Cereal Starches. Biomacromolecules, 2006, 7, 3259-3266.	5.4	201
10	Nutritional Property of Endosperm Starches from Maize Mutants: A Parabolic Relationship between Slowly Digestible Starch and Amylopectin Fine Structure. Journal of Agricultural and Food Chemistry, 2008, 56, 4686-4694.	5.2	180
11	Human α-amylase Present in Lower-Genital-Tract Mucosal Fluid Processes Glycogen to Support Vaginal Colonization by Lactobacillus. Journal of Infectious Diseases, 2014, 210, 1019-1028.	4.0	171
12	Improving the in vitro protein digestibility of sorghum with reducing agents. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 626-628.	7.1	167
13	Dietary Fiber Treatment Corrects the Composition of Gut Microbiota, Promotes SCFA Production, and Suppresses Colon Carcinogenesis. Genes, 2018, 9, 102.	2.4	158
14	Rice Amylopectin Fine Structure Variability Affects Starch Digestion Properties. Journal of Agricultural and Food Chemistry, 2007, 55, 1475-1479.	5.2	156
15	Quinoa (Chenopodium quinoa W.) and amaranth (Amaranthus caudatus L.) provide dietary fibres high in pectic substances and xyloglucans. Food Chemistry, 2015, 167, 490-496.	8.2	155
16	Structural Differences among Alkali-Soluble Arabinoxylans from Maize (<i>Zea mays</i>), Rice (<i>Oryza sativa</i>), and Wheat (<i>Triticum aestivum</i>) Brans Influence Human Fecal Fermentation Profiles. Journal of Agricultural and Food Chemistry, 2010, 58, 493-499.	5.2	152
17	Influence of Dietary Fiber on Inflammatory Bowel Disease and Colon Cancer: Importance of Fermentation Pattern. Nutrition Reviews, 2007, 65, 51-62.	5.8	139
18	Small differences in amylopectin fine structure may explain large functional differences of starch. Carbohydrate Polymers, 2016, 140, 113-121.	10.2	138

#	Article	IF	CITATIONS
19	Slowly digestible starch in fully gelatinized material is structurally driven by molecular size and A and B1 chain lengths. Carbohydrate Polymers, 2018, 197, 531-539.	10.2	127
20	<i>In Vitro</i> â€,Batch Fecal Fermentation Comparison of Gas and Shortâ€Chain Fatty Acid Production Using "Slowly Fermentable―Dietary Fibers. Journal of Food Science, 2011, 76, H137-42.	3.1	123
21	Slowly Digestible State of Starch: Mechanism of Slow Digestion Property of Gelatinized Maize Starch. Journal of Agricultural and Food Chemistry, 2008, 56, 4695-4702.	5.2	122
22	Reciprocal Prioritization to Dietary Glycans by Gut Bacteria in a Competitive Environment Promotes Stable Coexistence. MBio, 2017, 8, .	4.1	121
23	Carotenoid Bioaccessibility from Whole Grain and Degermed Maize Meal Products. Journal of Agricultural and Food Chemistry, 2008, 56, 9918-9926.	5.2	118
24	Structural features of soluble cereal arabinoxylan fibers associated with a slow rate of in vitro fermentation by human fecal microbiota. Carbohydrate Polymers, 2015, 130, 191-197.	10.2	113
25	Slowly Digestible Starch from Debranched Waxy Sorghum Starch: Preparation and Properties. Cereal Chemistry, 2004, 81, 404-408.	2.2	109
26	Low α-Amylase Starch Digestibility of Cooked Sorghum Flours and the Effect of Protein. Cereal Chemistry, 1998, 75, 710-713.	2.2	103
27	Similarities and differences in secondary structure of viscoelastic polymers of maize α-zein and wheat gluten proteins. Journal of Cereal Science, 2007, 45, 353-359.	3.7	101
28	Dietary fibre-based SCFA mixtures promote both protection and repair of intestinal epithelial barrier function in a Caco-2 cell model. Food and Function, 2017, 8, 1166-1173.	4.6	99
29	Effect of Lime on Gelatinization of Corn Flour and Starch. Cereal Chemistry, 1997, 74, 171-175.	2.2	96
30	Contribution of the Individual Small Intestinal α-Glucosidases to Digestion of Unusual α-Linked Glycemic Disaccharides. Journal of Agricultural and Food Chemistry, 2016, 64, 6487-6494.	5.2	94
31	Delayed utilization of some fast-fermenting soluble dietary fibers by human gut microbiota when presented in a mixture. Journal of Functional Foods, 2017, 32, 347-357.	3.4	91
32	Effects of Ripening Temperature on Starch Structure and Gelatinization, Pasting, and Cooking Properties in Rice (<i>Oryza sativa</i>). Journal of Agricultural and Food Chemistry, 2015, 63, 3085-3093.	5.2	89
33	Distinctive Sorghum Starch Granule Morphologies Appear to Improve Raw Starch Digestibility. Starch/Staerke, 2006, 58, 92-99.	2.1	87
34	Emerging science on benefits of whole grain oat and barley and their soluble dietary fibers for heart heart health, glycemic response, and gut microbiota. Nutrition Reviews, 2020, 78, 13-20.	5.8	87
35	Detection of Proteins in Starch Granule Channels. Cereal Chemistry, 2005, 82, 351-355.	2.2	83
36	Enzyme-Synthesized Highly Branched Maltodextrins Have Slow Glucose Generation at the Mucosal α-Glucosidase Level and Are Slowly Digestible In Vivo. PLoS ONE, 2013, 8, e59745.	2.5	83

#	Article	IF	CITATIONS
37	Discovery of Grain Sorghum Germ Plasm with High Uncooked and Cooked In Vitro Protein Digestibilities. Cereal Chemistry, 1998, 75, 665-670.	2.2	82
38	Genetic analysis of opaque2 modifier loci in quality protein maize. Theoretical and Applied Genetics, 2008, 117, 157-170.	3.6	81
39	Luminal Starch Substrate "Brake―on Maltase-Glucoamylase Activity Is Located within the Glucoamylase Subunit3. Journal of Nutrition, 2008, 138, 685-692.	2.9	81
40	Gut microbiota modulation with long-chain corn bran arabinoxylan in adults with overweight and obesity is linked to an individualized temporal increase in fecal propionate. Microbiome, 2020, 8, 118.	11.1	81
41	Development of a Low Glycemic Maize Starch:Â Preparation and Characterization. Biomacromolecules, 2006, 7, 1162-1168.	5.4	78
42	Luminal Substrate "Brake―on Mucosal Maltase-glucoamylase Activity Regulates Total Rate of Starch Digestion to Glucose. Journal of Pediatric Gastroenterology and Nutrition, 2007, 45, 32-43.	1.8	77
43	Starch-entrapped microspheres show a beneficial fermentation profile and decrease in potentially harmful bacteria during <i>in vitro</i> fermentation in faecal microbiota obtained from patients with inflammatory bowel disease. British Journal of Nutrition, 2010, 103, 1514-1524.	2.3	77
44	Slow glucose release property of enzyme-synthesized highly branched maltodextrins differs among starch sources. Carbohydrate Polymers, 2014, 107, 182-191.	10.2	70
45	Importance of Location of Digestion and Colonic Fermentation of Starch Related to Its Quality. Cereal Chemistry, 2013, 90, 335-343.	2.2	69
46	Quantitative approach to study secondary structure of proteins by FT-IR spectroscopy, using a model wheat gluten system. International Journal of Biological Macromolecules, 2020, 164, 2753-2760.	7.5	69
47	Sorghum (Sorghum bicolor L. Moench) Flour Pasting Properties Influenced by Free Fatty Acids and Protein. Cereal Chemistry, 2005, 82, 534-540.	2.2	67
48	A molecular dynamics simulation study on the conformational stability of amylose-linoleic acid complex in water. Carbohydrate Polymers, 2018, 196, 56-65.	10.2	67
49	Physicochemical characterization, antioxidant activity of polysaccharides from Mesona chinensis Benth and their protective effect on injured NCTC-1469 cells induced by H2O2. Carbohydrate Polymers, 2017, 175, 538-546.	10.2	65
50	New View on Dietary Fiber Selection for Predictable Shifts in Gut Microbiota. MBio, 2020, 11, .	4.1	65
51	lodine binding to explore the conformational state of internal chains of amylopectin. Carbohydrate Polymers, 2013, 98, 778-783.	10.2	64
52	Dietary Phenolic Compounds Selectively Inhibit the Individual Subunits of Maltase-Glucoamylase and Sucrase-Isomaltase with the Potential of Modulating Glucose Release. Journal of Agricultural and Food Chemistry, 2015, 63, 3873-3879.	5.2	62
53	Divergent short-chain fatty acid production and succession of colonic microbiota arise in fermentation of variously-sized wheat bran fractions. Scientific Reports, 2018, 8, 16655.	3.3	62
54	Modulation of Starch Digestion for Slow Glucose Release through "Toggling―of Activities of Mucosal α-Glucosidases. Journal of Biological Chemistry, 2012, 287, 31929-31938.	3.4	61

#	Article	IF	CITATIONS
55	Contribution of Mucosal Maltase-Glucoamylase Activities to Mouse Small Intestinal Starch α-Glucogenesis3. Journal of Nutrition, 2007, 137, 1725-1733.	2.9	60
56	Potential of Prebiotic Butyrogenic Fibers in Parkinson's Disease. Frontiers in Neurology, 2019, 10, 663.	2.4	60
57	Association of Starch Granule Proteins with Starch Ghosts and Remnants Revealed by Confocal Laser Scanning Microscopy. Cereal Chemistry, 2002, 79, 892-896.	2.2	59
58	Evidence of native starch degradation with human small intestinal maltaseâ€glucoamylase (recombinant). FEBS Letters, 2007, 581, 2381-2388.	2.8	58
59	Multifunctional Nutrient-Binding Proteins Adapt Human Symbiotic Bacteria for Glycan Competition in the Gut by Separately Promoting Enhanced Sensing and Catalysis. MBio, 2014, 5, e01441-14.	4.1	58
60	Changes Occurring in Protein Body Structure and α-Zein During Cornflake Processing. Cereal Chemistry, 1998, 75, 217-221.	2.2	57
61	Brown rice compared to white rice slows gastric emptying in humans. European Journal of Clinical Nutrition, 2018, 72, 367-373.	2.9	57
62	Functionalizing maize zein in viscoelastic dough systems through fibrous, Î ² -sheet-rich protein networks: AnÂalternative, physicochemical approach to gluten-free breadmaking. Trends in Food Science and Technology, 2012, 24, 74-81.	15.1	56
63	Biophysical features of cereal endosperm that decrease starch digestibility. Carbohydrate Polymers, 2017, 165, 180-188.	10.2	55
64	Acid gelation of soluble laccase-crosslinked corn bran arabinoxylan and possible gel formation mechanism. Food Hydrocolloids, 2019, 92, 1-9.	10.7	52
65	Fecal microbiota responses to rice RS3 are specific to amylose molecular structure. Carbohydrate Polymers, 2020, 243, 116475.	10.2	52
66	Soluble xyloglucan generates bigger bacterial community shifts than pectic polymers during in vitro fecal fermentation. Carbohydrate Polymers, 2019, 206, 389-395.	10.2	50
67	Food Matrix Effects for Modulating Starch Bioavailability. Annual Review of Food Science and Technology, 2021, 12, 169-191.	9.9	50
68	A Rapid Protein Digestibility Assay for Identifying Highly Digestible Sorghum Lines. Cereal Chemistry, 2001, 78, 160-165.	2.2	49
69	Consequence of Starch Damage on Rheological Properties of Maize Starch Pastes. Cereal Chemistry, 2002, 79, 897-901.	2.2	49
70	Physical Inaccessibility of a Resistant Starch Shifts Mouse Gut Microbiota to Butyrogenic Firmicutes. Molecular Nutrition and Food Research, 2019, 63, e1801012.	3.3	49
71	Banana starch and molecular shear fragmentation dramatically increase structurally driven slowly digestible starch in fully gelatinized bread crumb. Food Chemistry, 2019, 274, 664-671.	8.2	49
72	Starch Source Influences Dietary Clucose Generation at the Mucosal α-Glucosidase Level. Journal of Biological Chemistry, 2012, 287, 36917-36921.	3.4	48

#	Article	IF	CITATIONS
73	Single-Arm, Non-randomized, Time Series, Single-Subject Study of Fecal Microbiota Transplantation in Multiple Sclerosis. Frontiers in Neurology, 2020, 11, 978.	2.4	48
74	Starchâ€entrapped microspheres extend <i>in vitro</i> fecal fermentation, increase butyrate production, and influence microbiota pattern. Molecular Nutrition and Food Research, 2009, 53, S121-30.	3.3	47
75	Consumption of the slow-digesting waxy maize starch leads to blunted plasma glucose and insulin response but does not influence energy expenditure or appetite in humans. Nutrition Research, 2009, 29, 383-390.	2.9	47
76	Alkaline extraction conditions determine gelling properties of corn bran arabinoxylans. Food Hydrocolloids, 2013, 31, 121-126.	10.7	46
77	Maltaseâ€Glucoamylase Modulates Gluconeogenesis and Sucraseâ€Isomaltase Dominates Starch Digestion Glucogenesis. Journal of Pediatric Gastroenterology and Nutrition, 2013, 57, 704-712.	1.8	46
78	High Strength Adhesives from Catechol Cross‣inking of Zein Protein and Plant Phenolics. Advanced Sustainable Systems, 2018, 2, 1700159.	5.3	46
79	Partial Leaching of Granule-Associated Proteins from Rice Starch during Alkaline Extraction and Subsequent Gelatinization. Starch/Staerke, 2002, 54, 454-460.	2.1	45
80	In vitro fermentation of Cookeina speciosa glucans stimulates the growth of the butyrogenic Clostridium cluster XIVa in a targeted way. Carbohydrate Polymers, 2018, 183, 219-229.	10.2	45
81	Traditional Malian Solid Foods Made from Sorghum and Millet Have Markedly Slower Gastric Emptying than Rice, Potato, or Pasta. Nutrients, 2018, 10, 124.	4.1	45
82	Unexpected High Digestion Rate of Cooked Starch by the Ct-Maltase-Glucoamylase Small Intestine Mucosal α-Glucosidase Subunit. PLoS ONE, 2012, 7, e35473.	2.5	43
83	Abnormal Eating Patterns Cause Circadian Disruption and Promote Alcohol-Associated Colon Carcinogenesis. Cellular and Molecular Gastroenterology and Hepatology, 2020, 9, 219-237.	4.5	43
84	Effect of Growth Location in the United States on Amylose Content, Amylopectin Fine Structure, and Thermal Properties of Starches of Long Grain Rice Cultivars. Cereal Chemistry, 2006, 83, 93-98.	2.2	42
85	Gut feedback mechanisms and food intake: a physiological approach to slow carbohydrate bioavailability. Food and Function, 2015, 6, 1072-1089.	4.6	42
86	Digestibility and Utilization of Protein and Energy from Nasha, a Traditional Sudanese Fermented Sorghum Weaning Food. Journal of Nutrition, 1986, 116, 978-984.	2.9	41
87	Improvement of Sorghum-Wheat Composite Dough Rheological Properties and Breadmaking Quality Through Zein Addition. Cereal Chemistry, 2001, 78, 31-35.	2.2	41
88	Starch digested product analysis by HPAEC reveals structural specificity of flavonoids in the inhibition of mammalian α-amylase and α-glucosidases. Food Chemistry, 2019, 288, 413-421.	8.2	41
89	A Novel Modified Endosperm Texture in a Mutant High-Protein Digestibility/High-Lysine Grain Sorghum (Sorghum bicolor(L.) Moench). Cereal Chemistry, 2006, 83, 194-201.	2.2	40
90	REVIEW: Cereal Carbohydrates and Colon Health. Cereal Chemistry, 2010, 87, 331-341.	2.2	40

	IF	CITATIONS
91 Increasing and Stabilizing Î ² -Sheet Structure of Maize Zein Causes Improvement in Its Rheological Properties. Journal of Agricultural and Food Chemistry, 2012, 60, 2316-2321.	5.2	40

 $_{92}$ Effect of dynamic high pressure on technological properties of cashew tree gum (Anacardium) Tj ETQq0 0 0 rgBT /Qverlock 10 Tf 50 702 $_{10.2}^{+0.2}$

93	Synthesis of novel α-glucans with potential health benefits through controlled glucose release in the human gastrointestinal tract. Critical Reviews in Food Science and Nutrition, 2020, 60, 123-146.	10.3	40
94	An SECâ^'MALLS Study of Molecular Features of Waterâ€soluble Amylopectin and Amylose of Tef [<i>Eragrostis tef</i> (Zucc.) Trotter] Starches. Starch/Staerke, 2008, 60, 8-22.	2.1	39
95	Gliadin and zein show similar and improved rheological behavior when mixed with high molecular weight glutenin. Journal of Cereal Science, 2012, 55, 265-271.	3.7	39
96	Modulating state transition and mechanical properties of viscoelastic resins from maize zein through interactions with plasticizers and co-proteins. Journal of Cereal Science, 2014, 60, 576-583.	3.7	39
97	Starch-Entrapped Biopolymer Microspheres as a Novel Approach to Vary Blood Glucose Profiles. Journal of the American College of Nutrition, 2009, 28, 583-590.	1.8	38
98	Phenolic compounds mediate aggregation of water-soluble polysaccharides and change their rheological properties: Effect of different phenolic compounds. Food Hydrocolloids, 2019, 97, 105193.	10.7	38
99	Subtle Variations in Dietary-Fiber Fine Structure Differentially Influence the Composition and Metabolic Function of Gut Microbiota. MSphere, 2020, 5, .	2.9	38
100	Neutral hydrocolloids promote shear-induced elasticity and gel strength of gelatinized waxy potato starch. Food Hydrocolloids, 2020, 107, 105923.	10.7	38
101	Heavy metal contamination and health risk assessment in grains and grain-based processed food in Arequipa region of Peru. Chemosphere, 2021, 274, 129792.	8.2	38
102	Effect of Specific Mechanical Energy on Protein Bodies and α-Zeins in Corn Flour Extrudates. Cereal Chemistry, 1999, 76, 316-320.	2.2	37
103	Mucosal Câ€ŧerminal maltaseâ€glucoamylase hydrolyzes large size starch digestion products that may contribute to rapid postprandial glucose generation. Molecular Nutrition and Food Research, 2014, 58, 1111-1121.	3.3	37
104	Dietary Slowly Digestible Starch Triggers the Gut–Brain Axis in Obese Rats with Accompanied Reduced Food Intake. Molecular Nutrition and Food Research, 2018, 62, 1700117.	3.3	37
105	Characterizations of oil-in-water emulsion stabilized by different hydrophobic maize starches. Carbohydrate Polymers, 2017, 166, 195-201.	10.2	36
106	Dietary Fiber Hierarchical Specificity: the Missing Link for Predictable and Strong Shifts in Gut Bacterial Communities. MBio, 2021, 12, e0102821.	4.1	36
107	Physicochemical Properties of Flours that Relate to Sorghum Couscous Quality. Cereal Chemistry, 1999, 76, 308-313.	2.2	35
108	Complexation process of amylose under different concentrations of linoleic acid using molecular dynamics simulation. Carbohydrate Polymers, 2019, 216, 157-166.	10.2	35

#	Article	IF	CITATIONS
109	Grain of high digestible, high lysine (HDHL) sorghum contains kafirins which enhance the protein network of composite dough and bread. Journal of Cereal Science, 2012, 56, 352-357.	3.7	34
110	Slow Digestion Property of Octenyl Succinic Anhydride Modified Waxy Maize Starch in the Presence of Tea Polyphenols. Journal of Agricultural and Food Chemistry, 2015, 63, 2820-2829.	5.2	34
111	Structure of branching enzyme- and amylomaltase modified starch produced from well-defined amylose to amylopectin substrates. Carbohydrate Polymers, 2016, 152, 51-61.	10.2	34
112	Impact of molecular interactions with phenolic compounds on food polysaccharides functionality. Advances in Food and Nutrition Research, 2019, 90, 135-181.	3.0	34
113	Concord and Niagara Grape Juice and Their Phenolics Modify Intestinal Glucose Transport in a Coupled in Vitro Digestion/Caco-2 Human Intestinal Model. Nutrients, 2016, 8, 414.	4.1	32
114	Structural requirements of flavonoids for the selective inhibition of α-amylase versus α-glucosidase. Food Chemistry, 2022, 370, 130981.	8.2	32
115	Different sucrose-isomaltase response of Caco-2 cells to glucose and maltose suggests dietary maltose sensing. Journal of Clinical Biochemistry and Nutrition, 2014, 54, 55-60.	1.4	31
116	Effect of pH on Cleavage of Glycogen by Vaginal Enzymes. PLoS ONE, 2015, 10, e0132646.	2.5	31
117	Number of branch points in α-limit dextrins impact glucose generation rates by mammalian mucosal α-glucosidases. Carbohydrate Polymers, 2017, 157, 207-213.	10.2	31
118	Potato phenolics impact starch digestion and glucose transport in model systems but translation to phenolic rich potato chips results in only modest modification of glycemic response in humans. Nutrition Research, 2018, 52, 57-70.	2.9	31
119	Self-Assembled Nanoparticle of Common Food Constituents That Carries a Sparingly Soluble Small Molecule. Journal of Agricultural and Food Chemistry, 2015, 63, 4312-4319.	5.2	30
120	Fabrication of a soluble crosslinked corn bran arabinoxylan matrix supports a shift to butyrogenic gut bacteria. Food and Function, 2019, 10, 4497-4504.	4.6	30
121	A Ribose-Scavenging System Confers Colonization Fitness on the Human Gut Symbiont Bacteroides thetaiotaomicron in a Diet-Specific Manner. Cell Host and Microbe, 2020, 27, 79-92.e9.	11.0	30
122	Corn zein undergoes conformational changes to higher β-sheet content during its self-assembly in an increasingly hydrophilic solvent. International Journal of Biological Macromolecules, 2020, 157, 232-239.	7.5	30
123	Interaction of maize zein with wheat gluten in composite dough and bread as determined by confocal laser scanning microscopy. Scanning, 2002, 24, 1-5.	1.5	29
124	On the role of the internal chain length distribution of amylopectins during retrogradation: Double helix lateral aggregation and slow digestibility. Carbohydrate Polymers, 2020, 246, 116633.	10.2	28
125	Influence of polysaccharide concentration on polyphenol-polysaccharide interactions. Carbohydrate Polymers, 2021, 274, 118670.	10.2	27
126	Prebiotics and Inflammatory Bowel Disease. Gastroenterology Clinics of North America, 2017, 46, 783-795.	2.2	25

#	Article	IF	CITATIONS
127	Fecal Microbiota Responses to Bran Particles Are Specific to Cereal Type and <i>In Vitro</i> Digestion Methods That Mimic Upper Gastrointestinal Tract Passage. Journal of Agricultural and Food Chemistry, 2018, 66, 12580-12593.	5.2	25
128	Phenolic compounds are less degraded in presence of starch than in presence of proteins through processing in model porridges. Food Chemistry, 2020, 309, 125769.	8.2	25
129	Fine structural characteristics related to digestion properties of acidâ€treated fruit starches. Starch/Staerke, 2011, 63, 717-727.	2.1	24
130	A pectic polysaccharide from peach palm fruits (Bactris gasipaes) and its fermentation profile by the human gut microbiota in vitro. Bioactive Carbohydrates and Dietary Fibre, 2017, 9, 1-6.	2.7	24
131	Microwave treatment enhances human gut microbiota fermentability of isolated insoluble dietary fibers. Food Research International, 2021, 143, 110293.	6.2	24
132	Microstructural changes in zein proteins during extrusion. Scanning, 1999, 21, 212-216.	1.5	23
133	The nutritional property of endosperm starch and its contribution to the health benefits of whole grain foods. Critical Reviews in Food Science and Nutrition, 2017, 57, 3807-3817.	10.3	23
134	Different inhibition properties of catechins on the individual subunits of mucosal \hat{I}_{\pm} -glucosidases as measured by partially-purified rat intestinal extract. Food and Function, 2019, 10, 4407-4413.	4.6	23
135	Among older adults, age-related changes in the stool microbiome differ by HIV-1 serostatus. EBioMedicine, 2019, 40, 583-594.	6.1	23
136	Shear-thickening behavior of gelatinized waxy starch dispersions promoted by the starch molecular characteristics. International Journal of Biological Macromolecules, 2019, 121, 120-126.	7.5	23
137	Stored Gelatinized Waxy Potato Starch Forms a Strong Retrograded Gel at Low pH with the Formation of Intermolecular Double Helices. Journal of Agricultural and Food Chemistry, 2020, 68, 4036-4041.	5.2	23
138	Integrating endâ€user preferences into breeding programmes for roots, tubers and bananas. International Journal of Food Science and Technology, 2021, 56, 1071-1075.	2.7	23
139	Strong Adhesives from Corn Protein and Tannic Acid. Advanced Sustainable Systems, 2019, 3, 1900077.	5.3	22
140	Pearl millet (<i>Pennisetum glaucum</i>) couscous breaks down faster than wheat couscous in the Human Gastric Simulator, though has slower starch hydrolysis. Food and Function, 2020, 11, 111-122.	4.6	22
141	Influence of glucan structure on the swelling and leaching properties of starch microparticles. Carbohydrate Polymers, 2014, 103, 234-243.	10.2	21
142	Mechanistic insights into consumption of the food additive xanthan gum by the human gut microbiota. Nature Microbiology, 2022, 7, 556-569.	13.3	21
143	Branch pattern of starch internal structure influences the glucogenesis by mucosal Nt-maltase-glucoamylase. Carbohydrate Polymers, 2014, 111, 33-40.	10.2	20
144	Effects of different storage temperatures on the intra- and intermolecular retrogradation and digestibility of sago starch. International Journal of Biological Macromolecules, 2021, 182, 65-71.	7.5	20

#	Article	IF	CITATIONS
145	Current and future challenges in starch research. Current Opinion in Food Science, 2021, 40, 46-50.	8.0	19
146	Enzyme treatments on corn fiber from wet-milling process for increased starch and protein extraction. Industrial Crops and Products, 2021, 168, 113622.	5.2	19
147	Long-term low shear-induced highly viscous waxy potato starch gel formed through intermolecular double helices. Carbohydrate Polymers, 2020, 232, 115815.	10.2	18
148	Development of Slowly Digestible Starch Derived α-Glucans with 4,6-α-Glucanotransferase and Branching Sucrase Enzymes. Journal of Agricultural and Food Chemistry, 2020, 68, 6664-6671.	5.2	18
149	Cellular Response to the high protein digestibility/high-Lysine (hdhl) sorghum mutation. Plant Science, 2015, 241, 70-77.	3.6	17
150	High arabinoxylan fine structure specificity to gut bacteria driven by corn genotypes but not environment. Carbohydrate Polymers, 2021, 257, 117667.	10.2	17
151	Rice starch and Co-proteins improve the rheological properties of zein dough. Journal of Cereal Science, 2021, 102, 103334.	3.7	17
152	Extent of decortication and quality of flour, couscous and porridge made from different sorghum cultivars. International Journal of Food Science and Technology, 2006, 41, 698-703.	2.7	16
153	High-quality instant sorghum porridge flours for the West African market using continuous processor cooking. International Journal of Food Science and Technology, 2011, 46, 2344-2350.	2.7	16
154	Orange pomace fibre increases a composite scoring of subjective ratings of hunger and fullness in healthy adults. Appetite, 2016, 107, 478-485.	3.7	16
155	Carbohydrates of the Kernel. , 2019, , 305-318.		16
156	Formulation of Orange Juice with Dietary Fibers Enhances Bioaccessibility of Orange Flavonoids in Juice but Limits Their Ability to Inhibit <i>In Vitro</i> Glucose Transport. Journal of Agricultural and Food Chemistry, 2020, 68, 9387-9397.	5.2	16
157	An exercise intervention alters stool microbiota and metabolites among older, sedentary adults. Therapeutic Advances in Infectious Disease, 2021, 8, 204993612110270.	1.8	16
158	Turbidity Assay for Rapid and Efficient Identification of High Protein Digestibility Sorghum Lines. Cereal Chemistry, 2003, 80, 40-44.	2.2	15
159	Preload of slowly digestible carbohydrate microspheres decreases gastric emptying rate of subsequent meal in humans. Nutrition Research, 2017, 45, 46-51.	2.9	15
160	Maize Bran Particle Size Governs the Community Composition and Metabolic Output of Human Gut Microbiota in in vitro Fermentations. Frontiers in Microbiology, 2020, 11, 1009.	3.5	15
161	Distribution of B-6 vitamers in human milk during a 24-h period after oral supplementation with different amounts of pyridoxine. American Journal of Clinical Nutrition, 1990, 51, 1062-1066.	4.7	14
162	Cys155 of 27 kDa maize γ-zein is a key amino acid to improve its in vitro digestibility. FEBS Letters, 2006, 580, 5803-5806.	2.8	14

#	Article	IF	CITATIONS
163	Dietary starch breakdown product sensing mobilizes and apically activates αâ€glucosidases in small intestinal enterocytes. FASEB Journal, 2018, 32, 3903-3911.	0.5	14
164	Corn Dry-Milled Grit and Flour Fractions Exhibit Differences in Amylopectin Fine Structure and Gel Texture. Cereal Chemistry, 2002, 79, 354-358.	2.2	13
165	Sorghum protein digestibility is affected by dosage of mutant alleles in endosperm cells. Plant Breeding, 2008, 127, 579-586.	1.9	13
166	Starch Digestion and Patients With Congenital Sucraseâ€Isomaltase Deficiency. Journal of Pediatric Gastroenterology and Nutrition, 2012, 55, S24-8.	1.8	13
167	Starch digestion kinetics of extruded reformed rice is changed in different ways with added protein or fiber. Food and Function, 2019, 10, 4577-4583.	4.6	13
168	In Vitro Fecal Fermentation of High Pressure-Treated Fruit Peels Used as Dietary Fiber Sources. Molecules, 2019, 24, 697.	3.8	13
169	African Adansonia digitata fruit pulp (baobab) modifies provitamin A carotenoid bioaccessibility from composite pearl millet porridges. Journal of Food Science and Technology, 2020, 57, 1382-1392.	2.8	13
170	Boosting the value of insoluble dietary fiber to increase gut fermentability through food processing. Food and Function, 2021, 12, 10658-10666.	4.6	13
171	Protein matrix retains most starch granules within corn fiber from corn wet-milling process. Industrial Crops and Products, 2021, 165, 113429.	5.2	13
172	Influence of annealing flours from raw and preâ€cooked plantain fruit on cooked starch digestion rates. Starch/Staerke, 2015, 67, 139-146.	2.1	12
173	Reformulating cereal bars: high resistant starch reduces in vitro digestibility but not in vivo glucose or insulin response; whey protein reduces glucose but disproportionately increases insulin. American Journal of Clinical Nutrition, 2016, 104, 995-1003.	4.7	12
174	Phenolic compounds increase the transcription of mouse intestinal maltase-glucoamylase and sucrase-isomaltase. Food and Function, 2017, 8, 1915-1924.	4.6	12
175	Investigating the potential of slow-retrograding starches to reduce staling in soft savory bread and sweet cake model systems. Food Research International, 2020, 138, 109745.	6.2	12
176	Carbohydrates designed with different digestion rates modulate gastric emptying response in rats. International Journal of Food Sciences and Nutrition, 2020, 71, 839-844.	2.8	12
177	Physicochemical and rheological properties of cooked extruded reformed rice with added protein or fiber. LWT - Food Science and Technology, 2021, 151, 112196.	5.2	12
178	Elevated propionate and butyrate in fecal ferments of hydrolysates generated by oxalic acid treatment of corn bran arabinoxylan. Food and Function, 2016, 7, 4935-4943.	4.6	11
179	Starch-entrapped microsphere fibers improve bowel habit but do not exhibit prebiotic capacity in those with unsatisfactory bowel habits: a phase I, randomized, double-blind, controlled human trial. Nutrition Research, 2017, 44, 27-37.	2.9	11
180	Alterations in the amounts of microbial metabolites in different regions of the mouse large intestine using variably fermentable fibres. Bioactive Carbohydrates and Dietary Fibre, 2018, 13, 7-13.	2.7	11

#	Article	IF	CITATIONS
181	Descriptive sensory analysis of instant porridge from stored wholegrain and decorticated pearl millet flour cooked, stabilized and improved by using a lowâ€cost extruder. Journal of Food Science, 2021, 86, 3824-3838.	3.1	11
182	Potato product form impacts <i>in vitro</i> starch digestibility and glucose transport but only modestly impacts 24 h blood glucose response in humans. Food and Function, 2019, 10, 1846-1855.	4.6	10
183	Induction of differentiation of small intestinal enterocyte cells by maltooligosaccharides. FASEB Journal, 2015, 29, 596.14.	0.5	10
184	Deciphering molecular interaction and digestibility in retrogradation of amylopectin gel networks. Food and Function, 2021, 12, 11460-11468.	4.6	10
185	Corn arabinoxylan has a repeating structure of subunits of high branch complexity with slow gut microbiota fermentation. Carbohydrate Polymers, 2022, 289, 119435.	10.2	10
186	Whole grain cereal fibers and their support of the gut commensal Clostridia for health. Bioactive Carbohydrates and Dietary Fibre, 2020, 24, 100245.	2.7	9
187	Evaluation of the Prebiotic Potential of a Commercial Synbiotic Food Ingredient on Gut Microbiota in an Ex Vivo Model of the Human Colon. Nutrients, 2020, 12, 2669.	4.1	9
188	Effect of edible plant materials on provitamin A stability and bioaccessibility from extruded whole pearl millet (P. typhoides) composite blends. LWT - Food Science and Technology, 2020, 123, 109109.	5.2	9
189	Atomistic Modeling of Peptide Aggregation and β-Sheet Structuring in Corn Zein for Viscoelasticity. Biomacromolecules, 2021, 22, 1856-1866.	5.4	9
190	Potential of moringa leaf and baobab fruit food-to-food fortification of wholegrain maize porridge to improve iron and zinc bioaccessibility. International Journal of Food Sciences and Nutrition, 2022, 73, 15-27.	2.8	9
191	Some pearl millet-based foods promote satiety or reduce glycaemic response in a crossover trial. British Journal of Nutrition, 2021, 126, 1168-1178.	2.3	9
192	Enzymatic synthesis of 2-deoxyglucose-containing maltooligosaccharides for tracing the location of glucose absorption from starch digestion. Carbohydrate Polymers, 2015, 132, 41-49.	10.2	8
193	Isolation and Characterization of a Soluble Branched Starch Fraction from Corn Masa Associated with Adhesiveness. Cereal Chemistry, 2003, 80, 693-698.	2.2	7
194	Pregelatinized starches enriched in slowly digestible and resistant fractions. LWT - Food Science and Technology, 2018, 97, 187-192.	5.2	7
195	The Effect of Acute Continuous Hypoxia on Triglyceride Levels in Constantly Fed Healthy Men. Frontiers in Physiology, 2019, 10, 752.	2.8	7
196	Responses to Selection for Endosperm Hardness and Associated Changes in Agronomic Traits after Four Cycles of Recurrent Selection in Maize. Crop Science, 1995, 35, 745-748.	1.8	7
197	Pine Bark Phenolic Extracts, Current Uses, and Potential Food Applications: A Review. Current Pharmaceutical Design, 2020, 26, 1866-1879.	1.9	7
198	Polysaccharide Modification through Green Technology: Role of Endodextranase in Improving the Physicochemical Properties of (1→3)(1→6)-α- <scp>d</scp> -Glucan. Journal of Agricultural and Food Chemistry, 2015, 63, 6450-6456.	5.2	6

#	Article	IF	CITATIONS
199	Elevating the conversation about GE crops. Nature Biotechnology, 2017, 35, 302-304.	17.5	6
200	Dietary starch is weight reducing when distally digested in the small intestine. Carbohydrate Polymers, 2021, 273, 118599.	10.2	6
201	Potential nutritional contribution of quality protein maize: A closeâ€up on children in poor communities*. Ecology of Food and Nutrition, 1999, 38, 165-182.	1.6	5
202	Milk glucosidase activity enables suckled pup starch digestion. Molecular and Cellular Pediatrics, 2016, 3, 4.	1.8	5
203	In vitro assessment of oat \hat{l}^2 -glucans nutritional properties: An inter-laboratory methodology evaluation. Carbohydrate Polymers, 2018, 200, 271-277.	10.2	5
204	Structure and binding ability of selfâ€assembled <scp>αâ€lactalbumin</scp> protein nanotubular gels. Biotechnology Progress, 2021, 37, e3127.	2.6	5
205	Rheological and water binding properties of xanthan, guar and ultra-finely milled oatmeal in white birch sap: Influence of sap minor constituents. Food Research International, 2021, 147, 110478.	6.2	5
206	Development of a novel starch-based dietary fiber using glucanotransferase. Food and Function, 2021, 12, 5745-5754.	4.6	5
207	Matched whole grain wheat and refined wheat milled products do not differ in glycemic response or gastric emptying in a randomized, crossover trial. American Journal of Clinical Nutrition, 2022, 115, 1013-1026.	4.7	5
208	In Vitro Starch Digestibility of Gluten-Free Spaghetti Based on Maize, Chickpea, and Unripe Plantain Flours. Cereal Chemistry, 2015, 92, 171-176.	2.2	4
209	A Unique Gut Microbiome–Physical Function Axis Exists in Older People with HIV: An Exploratory Study. AIDS Research and Human Retroviruses, 2021, 37, 542-550.	1.1	4
210	Activation of gastrointestinal ileal brake response with dietary slowly digestible carbohydrates, with no observed effect on subjective appetite, in an acute randomized, double-blind, crossover trial. European Journal of Nutrition, 2022, 61, 1965-1980.	3.9	4
211	Peruvian Andean grains: Nutritional, functional properties and industrial uses. Critical Reviews in Food Science and Nutrition, 2023, 63, 9634-9647.	10.3	4
212	Soluble corn arabinoxylan has desirable material properties for high incorporation in expanded cereal extrudates. Food Hydrocolloids, 2022, 133, 107939.	10.7	4
213	Quantitative characterization of the digestive viscosity profile of cereal soluble dietary fibers using in vitro digestion in Rapid ViscoAnalyzer. Carbohydrate Polymers, 2020, 248, 116807.	10.2	3
214	Conditioning with slowly digestible starch diets in mice reduces jejunal α-glucosidase activity and glucogenesis from a digestible starch feeding. Nutrition, 2020, 78, 110857.	2.4	3
215	Registration of H125 Yellowâ€Endosperm Parental Inbred Line of Maize. Crop Science, 1995, 35, 1242-1243	1.8	3
216	Potato Phenolics Modulate Rate of Glucose Transport in a Cacoâ€2 Human Intestinal Cell Model. FASEB Journal, 2015, 29, 606.6.	0.5	3

#	Article	IF	CITATIONS
217	Effect of isomaltodextrin on dough rheology and bread quality. International Journal of Food Science and Technology, 2022, 57, 1554-1562.	2.7	3
218	Development of the Choices 5-Level Criteria to Support Multiple Food System Actions. Nutrients, 2021, 13, 4509.	4.1	3
219	Proteolytic Activity in Sorghum Flour and Its Interference in Protein Analysis. Cereal Chemistry, 2000, 77, 343-344.	2.2	2
220	Sleep Health Should be Included as a Therapeutic Target in the Treatment of HIV. AIDS Research and Human Retroviruses, 2020, 36, 631-631.	1.1	2
221	Biopolymerâ€entrapped starch microspheres as novel slowly digestible carbohydrate ingredients with moderated and extended glycemic response. FASEB Journal, 2007, 21, A344.	0.5	2
222	Viscosity development from oat bran β-glucans through <i>in vitro</i> digestion is lowered in the presence of phenolic compounds. Food and Function, 2022, 13, 3894-3904.	4.6	2
223	Storage of biofortified maize in Purdue Improved Crop Storage (PICS) bags reduces disulfide linkage-driven decrease in porridge viscosity. LWT - Food Science and Technology, 2021, 136, 110262.	5.2	1
224	Isomaltodextrin strengthens model starch gels and moderately promotes starch retrogradation. International Journal of Food Science and Technology, 2021, 56, 1631-1640.	2.7	1
225	Discrete Fiber Structures Dictate Human Gut Bacteria Outcomes. Trends in Endocrinology and Metabolism, 2020, 31, 803-805.	7.1	1
226	Transglutaminase Shows Better Functionality on High Digestible, High Lysine Sorghum-Wheat Composite Dough and Bread, Compared to Normal Sorghum-Wheat Composites. Turkish Journal of Agriculture: Food Science and Technology, 2019, 7, 877.	0.3	1
227	Microwave-assisted synthesis of NaMnF3 particles with tuneable morphologies. Chemical Communications, 2021, 57, 11799-11802.	4.1	1
228	Malian Thick Porridges (tô) of Pearl Millet Are Made Thinner in Urban Than Rural Areas and Decrease Satiety. Food and Nutrition Bulletin, 2022, 43, 35-43.	1.4	1
229	Effect of Mouse Maltaseâ€glucoamylase (Mgam) Knockout on Starch Digestion to Glucose. FASEB Journal, 2007, 21, .	0.5	1
230	Understanding Aspects of Carbohydrate Quality in Rice Related to Differences in Gastric Emptying Rate. FASEB Journal, 2015, 29, 740.5.	0.5	1
231	Novel pearl millet couscous process for West African markets using a lowâ€cost singleâ€screw extruder. International Journal of Food Science and Technology, 2022, 57, 4594-4601.	2.7	1
232	In vitro fecal fermentation of alginateâ€starch microspheres shows slow fermentation rate and increased production of butyrate. FASEB Journal, 2007, 21, A1101.	0.5	0
233	Contribution of Mucosal Maltaseâ€Glucoamylase to Mouse Small Intestinal Starch αâ€Glucogenesis and Total Glucose Metabolism. FASEB Journal, 2008, 22, 686.2.	0.5	0
234	Slowly digestible starch diets alter proximal glucosidase activity and glucose absorption. FASEB Journal, 2010, 24, 231.4.	0.5	0

#	Article	IF	CITATIONS
235	Slow release glucose in small intestine via dietary approach slows gastric emptying in vivo in a dose response fashion. FASEB Journal, 2011, 25, 93.6.	0.5	0
236	Alphaâ€glucogenic activity of mammalian mucosal enzymes on different disaccharides. FASEB Journal, 2011, 25, 93.1.	0.5	0
237	Modulation of starch digestion for slow glucose release through "toggling―of mucosal αâ€glucosidases by acarbose. FASEB Journal, 2012, 26, 638.7.	0.5	0
238	Enzymeâ€synthesized highly branched maltodextrins have slow glucogenesis at the mucosal αâ€glucosidase level and are slowly digestible in vivo. FASEB Journal, 2013, 27, 1074.13.	0.5	0
239	Longâ€ŧerm feeding of dietary slow release glucose reduces daily caloric food intake in vivo. FASEB Journal, 2013, 27, 237.6.	0.5	0
240	Registration of H126w Whiteâ€Endosperm Parental Inbred Line of Maize. Crop Science, 1995, 35, 1243-1244.	1.8	0
241	Registration of HQPSSS and HQPSCB Maize Germplasm. Crop Science, 1995, 35, 1720-1720.	1.8	0
242	Differences in Preference and Preparation of Millet Porridge (TÃ) between Urban and Rural Areas in Mali and its Impact on Satiety. FASEB Journal, 2015, 29, 898.10.	0.5	0
243	OUP accepted manuscript. Journal of Nutrition, 2022, , .	2.9	0
244	Influence of Hofmeister anions on structural and thermal properties of a starch-protein-lipid nanoparticle. International Journal of Biological Macromolecules, 2022, 210, 768-775.	7.5	0
245	In vitro Fecal Fermentation of Indigestible Residues from Heatâ€Moisture Treated Maize Meal and Maize Starch with Stearic Acid. Starch/Staerke, 2022, 74, .	2.1	0