# Fan Zhu

### List of Publications by Citations

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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.

 142
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#	Paper	IF	Citations
142	Interactions between starch and phenolic compound. <i>Trends in Food Science and Technology</i> , <b>2015</b> , 43, 129-143	15.3	248
141	Composition, structure, physicochemical properties, and modifications of cassava starch. <i>Carbohydrate Polymers</i> , <b>2015</b> , 122, 456-80	10.3	190
140	Impact of ultrasound on structure, physicochemical properties, modifications, and applications of starch. <i>Trends in Food Science and Technology</i> , <b>2015</b> , 43, 1-17	15.3	142
139	Chemical composition and health effects of Tartary buckwheat. Food Chemistry, 2016, 203, 231-245	8.5	139
138	Encapsulation and delivery of food ingredients using starch based systems. <i>Food Chemistry</i> , <b>2017</b> , 229, 542-552	8.5	136
137	Influence of ingredients and chemical components on the quality of Chinese steamed bread. <i>Food Chemistry</i> , <b>2014</b> , 163, 154-62	8.5	124
136	Chemical constituents and health effects of sweet potato. <i>Food Research International</i> , <b>2016</b> , 89, 90-11	<b>6</b> 7	116
135	Starch based Pickering emulsions: Fabrication, properties, and applications. <i>Trends in Food Science and Technology</i> , <b>2019</b> , 85, 129-137	15.3	110
134	Effect of phytochemical extracts on the pasting, thermal, and gelling properties of wheat starch. <i>Food Chemistry</i> , <b>2009</b> , 112, 919-923	8.5	101
133	Physicochemical properties of quinoa starch. <i>Carbohydrate Polymers</i> , <b>2016</b> , 137, 328-338	10.3	96
132	Effect of black tea on antioxidant, textural, and sensory properties of Chinese steamed bread. <i>Food Chemistry</i> , <b>2016</b> , 194, 1217-23	8.5	94
131	Anthocyanins in cereals: Composition and health effects. Food Research International, 2018, 109, 232-2	4 <del>9</del> 7	83
130	Relationships between amylopectin internal molecular structure and physicochemical properties of starch. <i>Trends in Food Science and Technology</i> , <b>2018</b> , 78, 234-242	15.3	82
129	Anthocyanins, hydroxycinnamic acid derivatives, and antioxidant activity in roots of different chinese purple-fleshed sweetpotato genotypes. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 7588-96	5.7	79
128	Chemical composition and food uses of teff (Eragrostis tef). Food Chemistry, 2018, 239, 402-415	8.5	77
127	Buckwheat starch: Structures, properties, and applications. <i>Trends in Food Science and Technology</i> , <b>2016</b> , 49, 121-135	15.3	77
126	Amylopectin internal molecular structure in relation to physical properties of sweetpotato starch. <i>Carbohydrate Polymers</i> , <b>2011</b> , 84, 907-918	10.3	73

125	Quinoa starch: Structure, properties, and applications. Carbohydrate Polymers, 2018, 181, 851-861	10.3	73
124	Physicochemical properties, molecular structure, and uses of sweetpotato starch. <i>Trends in Food Science and Technology</i> , <b>2014</b> , 36, 68-78	15.3	72
123	Effect of Erradiation on phenolic compounds in rice grain. Food Chemistry, 2010, 120, 74-77	8.5	70
122	Interactions between cell wall polysaccharides and polyphenols. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2018</b> , 58, 1808-1831	11.5	69
121	Physicochemical properties of sweetpotato starch. Starch/Staerke, 2011, 63, 249-259	2.3	67
120	Plasma modification of starch. <i>Food Chemistry</i> , <b>2017</b> , 232, 476-486	8.5	66
119	Physicochemical properties of quinoa flour as affected by starch interactions. <i>Food Chemistry</i> , <b>2017</b> , 221, 1560-1568	8.5	64
118	Structure, Physicochemical Properties, Modifications, and Uses of Sorghum Starch. <i>Comprehensive Reviews in Food Science and Food Safety</i> , <b>2014</b> , 13, 597-610	16.4	64
117	Physicochemical interactions of maize starch with ferulic acid. Food Chemistry, 2016, 199, 372-9	8.5	63
116	Formulation and Quality Attributes of Quinoa Food Products. <i>Food and Bioprocess Technology</i> , <b>2016</b> , 9, 49-68	5.1	62
115	Modifications of konjac glucomannan for diverse applications. Food Chemistry, 2018, 256, 419-426	8.5	59
114	Sacha inchi (Plukenetia volubilis L.): Nutritional composition, biological activity, and uses. <i>Food Chemistry</i> , <b>2018</b> , 265, 316-328	8.5	57
113	Effect of ozone treatment on the quality of grain products. Food Chemistry, 2018, 264, 358-366	8.5	55
112	Influence of Quinoa Flour on Quality Characteristics of Cookie, Bread and Chinese Steamed Bread. Journal of Texture Studies, <b>2015</b> , 46, 281-292	3.6	55
111	Rheological and thermal properties of rice starch and rutin mixtures. <i>Food Research International</i> , <b>2012</b> , 49, 757-762	7	54
110	Amylopectin molecular structure in relation to physicochemical properties of quinoa starch. <i>Carbohydrate Polymers</i> , <b>2017</b> , 164, 396-402	10.3	53
109	Effect of high pressure on rheological and thermal properties of quinoa and maize starches. <i>Food Chemistry</i> , <b>2018</b> , 241, 380-386	8.5	53
108	Ultrasound modified polysaccharides: A review of structure, physicochemical properties, biological activities and food applications. <i>Trends in Food Science and Technology</i> , <b>2021</b> , 107, 491-508	15.3	52

107	Coix: Chemical composition and health effects. <i>Trends in Food Science and Technology</i> , <b>2017</b> , 61, 160-175	515.3	50
106	Isolation, Composition, Structure, Properties, Modifications, and Uses of Yam Starch. <i>Comprehensive Reviews in Food Science and Food Safety</i> , <b>2015</b> , 14, 357-386	16.4	49
105	Structure, physicochemical properties, and uses of millet starch. <i>Food Research International</i> , <b>2014</b> , 64, 200-211	7	48
104	Structures, properties, and applications of lotus starches. <i>Food Hydrocolloids</i> , <b>2017</b> , 63, 332-348	10.6	47
103	NMR spectroscopy of starch systems. <i>Food Hydrocolloids</i> , <b>2017</b> , 63, 611-624	10.6	47
102	Triticale: Nutritional composition and food uses. <i>Food Chemistry</i> , <b>2018</b> , 241, 468-479	8.5	46
101	Starch based aerogels: Production, properties and applications. <i>Trends in Food Science and Technology</i> , <b>2019</b> , 89, 1-10	15.3	44
100	Staling of Chinese steamed bread: Quantification and control. <i>Trends in Food Science and Technology</i> , <b>2016</b> , 55, 118-127	15.3	43
99	Impact of 🛘 rradiation on structure, physicochemical properties, and applications of starch. <i>Food Hydrocolloids</i> , <b>2016</b> , 52, 201-212	10.6	42
98	Barley Starch: Composition, Structure, Properties, and Modifications. <i>Comprehensive Reviews in Food Science and Food Safety</i> , <b>2017</b> , 16, 558-579	16.4	40
97	Molecular structure of quinoa starch. <i>Carbohydrate Polymers</i> , <b>2017</b> , 158, 124-132	10.3	40
96	Structures, properties, modifications, and uses of oat starch. <i>Food Chemistry</i> , <b>2017</b> , 229, 329-340	8.5	39
95	Effect of Phenolic Compounds on the Pasting and Textural Properties of Wheat Starch. <i>Starch/Staerke</i> , <b>2008</b> , 60, 609-616	2.3	39
94	Chemical composition and health effects of maca (Lepidium meyenii). Food Chemistry, <b>2019</b> , 288, 422-44	<b>48</b> .5	36
93	Tannins as an alternative to antibiotics. <i>Food Bioscience</i> , <b>2020</b> , 38, 100751	4.9	35
92	Dietary fiber polysaccharides of amaranth, buckwheat and quinoa grains: A review of chemical structure, biological functions and food uses. <i>Carbohydrate Polymers</i> , <b>2020</b> , 248, 116819	10.3	35
91	Dietary antioxidant synergy in chemical and biological systems. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2017</b> , 57, 2343-2357	11.5	34
90	Physicochemical properties of kiwifruit starch. <i>Food Chemistry</i> , <b>2017</b> , 220, 129-136	8.5	34

# (2016-2010)

89	Evaluation of Asian salted noodles in the presence of Amaranthus betacyanin pigments. <i>Food Chemistry</i> , <b>2010</b> , 118, 663-669	8.5	34
88	Structure, properties, and applications of aroid starch. <i>Food Hydrocolloids</i> , <b>2016</b> , 52, 378-392	10.6	32
87	Rheological and thermal properties in relation to molecular structure of New Zealand sweetpotato starch. <i>Food Hydrocolloids</i> , <b>2018</b> , 83, 165-172	10.6	32
86	Molecular structure of starches from maize mutants deficient in starch synthase III. <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 9899-907	5.7	31
85	Modification of quinoa flour functionality using ultrasound. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 52, 305-31	<b>0</b> 8.9	31
84	Gelatinization, Pasting, and Gelling Properties of Sweetpotato and Wheat Starch Blends. <i>Cereal Chemistry</i> , <b>2011</b> , 88, 302-309	2.4	30
83	Structures of clusters in sweetpotato amylopectin. Carbohydrate Research, 2011, 346, 1112-21	2.9	29
82	Modifications of starch by electric field based techniques. <i>Trends in Food Science and Technology</i> , <b>2018</b> , 75, 158-169	15.3	28
81	Physicochemical properties of maca starch. <i>Food Chemistry</i> , <b>2017</b> , 218, 56-63	8.5	28
80	Recent advances in modifications and applications of sago starch. <i>Food Hydrocolloids</i> , <b>2019</b> , 96, 412-423	3 10.6	27
79	Physicochemical properties of black pepper (Piper nigrum) starch. <i>Carbohydrate Polymers</i> , <b>2018</b> , 181, 986-993	10.3	27
78	Structures, physicochemical properties, and applications of amaranth starch. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2017</b> , 57, 313-325	11.5	26
77	Chemical and biological properties of feijoa (Acca sellowiana). <i>Trends in Food Science and Technology</i> , <b>2018</b> , 81, 121-131	15.3	26
76	Antivirulence properties and related mechanisms of spice essential oils: A comprehensive review. <i>Comprehensive Reviews in Food Science and Food Safety</i> , <b>2020</b> , 19, 1018-1055	16.4	25
75	Thermal and Rheological Properties of Mung Bean Starch Blends with Potato, Sweet Potato, Rice, and Sorghum Starches. <i>Food and Bioprocess Technology</i> , <b>2016</b> , 9, 1408-1421	5.1	22
74	Physicochemical and sensory properties of steamed bread fortified with purple sweet potato flour. <i>Food Bioscience</i> , <b>2019</b> , 30, 100411	4.9	21
73	Starch gelatinization, retrogradation, and enzyme susceptibility of retrograded starch: Effect of amylopectin internal molecular structure. <i>Food Chemistry</i> , <b>2020</b> , 316, 126036	8.5	21
72	Buckwheat and Millet Affect Thermal, Rheological, and Gelling Properties of Wheat Flour. <i>Journal of Food Science</i> , <b>2016</b> , 81, E627-36	3.4	21

71	Antidiabetic dietary materials and animal models. Food Research International, 2016, 85, 315-331	7	21
70	Supramolecular structure of high hydrostatic pressure treated quinoa and maize starches. <i>Food Hydrocolloids</i> , <b>2019</b> , 92, 276-284	10.6	20
69	Morphological, Thermal, and Rheological Properties of Starches from Maize Mutants Deficient in Starch Synthase III. <i>Journal of Agricultural and Food Chemistry</i> , <b>2016</b> , 64, 6539-45	5.7	20
68	Effect of Processing on Quality Attributes of Chestnut. Food and Bioprocess Technology, <b>2016</b> , 9, 1429-1	443	20
67	Polysaccharide based films and coatings for food packaging: Effect of added polyphenols. <i>Food Chemistry</i> , <b>2021</b> , 359, 129871	8.5	20
66	Structures of building blocks in clusters of sweetpotato amylopectin. <i>Carbohydrate Research</i> , <b>2011</b> , 346, 2913-25	2.9	19
65	Physicochemical and sensory properties of fresh noodles fortified with ground linseed (Linum usitatissimum). <i>LWT - Food Science and Technology</i> , <b>2019</b> , 101, 847-853	5.4	19
64	Encapsulation of rutin using quinoa and maize starch nanoparticles. Food Chemistry, 2021, 353, 128534	8.5	19
63	Characterization of internal structure of maize starch without amylose and amylopectin separation. <i>Carbohydrate Polymers</i> , <b>2013</b> , 97, 475-81	10.3	18
62	Influence of Amaranthus betacyanin pigments on the physical properties and color of wheat flours. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 8212-7	5.7	18
61	Effect of ultrasound on structural and physicochemical properties of sweetpotato and wheat flours. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 66, 105118	8.9	17
60	Atomic force microscopy of starch systems. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2017</b> , 57, 312	7 <del>13</del> 1 <del>4</del> 4	16
59	Chemical composition and biological activity of staghorn sumac (Rhus typhina). <i>Food Chemistry</i> , <b>2017</b> , 237, 431-443	8.5	16
58	Comparison of molecular structure of oca (Oxalis tuberosa), potato, and maize starches. <i>Food Chemistry</i> , <b>2019</b> , 296, 116-122	8.5	16
57	Physicochemical, functional and nutritional properties of kiwifruit flour. <i>Food Hydrocolloids</i> , <b>2019</b> , 92, 250-258	10.6	16
56	Underutilized and unconventional starches: Why should we care?. <i>Trends in Food Science and Technology</i> , <b>2020</b> , 100, 363-373	15.3	16
55	Proanthocyanidins in cereals and pseudocereals. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2019</b> , 59, 1521-1533	11.5	16
54	Properties and Food Uses of Chestnut Flour and Starch. Food and Bioprocess Technology, 2017, 10, 1173	- <del>1</del> . <del>1</del> 91	15

## (2019-2019)

53	Physicochemical properties and bioactive compounds of different varieties of sweetpotato flour treated with high hydrostatic pressure. <i>Food Chemistry</i> , <b>2019</b> , 299, 125129	8.5	15
52	Characterization of modified high-amylose maize starch-Ehaphthol complexes and their influence on rheological properties of wheat starch. <i>Food Chemistry</i> , <b>2013</b> , 138, 256-62	8.5	15
51	Gluten Enhances Cooking, Textural, and Sensory Properties of Oat Noodles. <i>Cereal Chemistry</i> , <b>2011</b> , 88, 228-233	2.4	15
50	Comparison of physicochemical properties of oca (Oxalis tuberosa), potato, and maize starches. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 148, 601-607	7.9	15
49	Structure of black pepper (Piper nigrum) starch. Food Hydrocolloids, 2017, 71, 102-107	10.6	14
48	Rheological properties in relation to molecular structure of quinoa starch. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 114, 767-775	7.9	14
47	Effect of chia seed on glycemic response, texture, and sensory properties of Chinese steamed bread. <i>LWT - Food Science and Technology</i> , <b>2018</b> , 98, 77-84	5.4	14
46	Antioxidant capacity of food mixtures is not correlated with their antiproliferative activity against MCF-7 breast cancer cells. <i>Journal of Medicinal Food</i> , <b>2013</b> , 16, 1138-45	2.8	14
45	Buckwheat proteins and peptides: Biological functions and food applications. <i>Trends in Food Science and Technology</i> , <b>2021</b> , 110, 155-167	15.3	14
44	Glycemic control in Chinese steamed bread: Strategies and opportunities. <i>Trends in Food Science and Technology</i> , <b>2019</b> , 86, 252-259	15.3	14
43	Starch structure in developing kiwifruit. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 120, 1306-1314	7.9	14
42	Physicochemical properties of potato, sweet potato and quinoa starch blends. <i>Food Hydrocolloids</i> , <b>2020</b> , 100, 105278	10.6	13
41	Physicochemical properties of dodecenyl succinic anhydride (DDSA) modified quinoa starch. <i>Food Chemistry</i> , <b>2019</b> , 300, 125201	8.5	12
40	Composition of clusters and building blocks in amylopectins from maize mutants deficient in starch synthase III. <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 12345-55	5.7	12
39	Synergistic interaction of sumac and raspberry mixtures in their antioxidant capacities and selective cytotoxicity against cancerous cells. <i>Journal of Medicinal Food</i> , <b>2015</b> , 18, 345-53	2.8	11
38	Chemical composition, health effects, and uses of water caltrop. <i>Trends in Food Science and Technology</i> , <b>2016</b> , 49, 136-145	15.3	11
37	Physicochemical properties of Maori potato starch affected by molecular structure. <i>Food Hydrocolloids</i> , <b>2019</b> , 90, 248-253	10.6	11
36	Physicochemical properties of steamed bread fortified with ground linseed (Linum usitatissimum). <i>International Journal of Food Science and Technology</i> , <b>2019</b> , 54, 1670-1676	3.8	11

Quality attributes of bread fortified with staghorn sumac extract. Journal of Texture Studies, 2018,

Characterization of polymer chain fractions of kiwifruit starch. Food Chemistry, 2018, 240, 579-587

Molecular structure of Maori potato starch. Food Hydrocolloids, 2018, 80, 206-211

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49, 129-134

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#### LIST OF PUBLICATIONS

17	Physicochemical and functional properties of Maori potato flour. Food Bioscience, 2020, 33, 100488	4.9	5	
16	Structure and Physicochemical Properties of Starch <b>2018</b> , 1-14		5	
15	Structure and physicochemical properties of starch affected by dynamic pressure treatments: A review. <i>Trends in Food Science and Technology</i> , <b>2021</b> , 116, 639-654	15.3	5	•
14	Staghorn Sumac Reduces 5-Fluorouracil-Induced Toxicity in Normal Cells. <i>Journal of Medicinal Food</i> , <b>2015</b> , 18, 938-40	2.8	4	
13	Bidirectional Estrogen-Like Effects of Genistein on Murine Experimental Autoimmune Ovarian Disease. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	4	
12	Relationships between supramolecular organization and amylopectin fine structure of quinoa starch. <i>Food Hydrocolloids</i> , <b>2021</b> , 117, 106685	10.6	4	
11	Chemical constituents and biological properties of Pu-erh tea <i>Food Research International</i> , <b>2022</b> , 154, 110899	7	4	
10	Effect of konjac glucomannan on physicochemical properties of quinoa and maize starches. <i>Cereal Chemistry</i> , <b>2019</b> , 96, 878-884	2.4	3	
9	Intravariety Diversity of Bioactive Compounds in Trinitario Cocoa Beans with Different Degrees of Fermentation. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 3150-3158	5.7	3	•
8	Unit and internal chain profiles of maca amylopectin. Food Chemistry, 2018, 242, 106-112	8.5	3	
7	Changes in structure and phenolic profiles during processing of steamed bread enriched with purple sweetpotato flour. <i>Food Chemistry</i> , <b>2022</b> , 369, 130578	8.5	3	
6	Physicochemical, rheological, and emulsification properties of nonenyl succinic anhydride (NSA) modified quinoa starch. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 193, 1371-1371	7.9	2	
5	Chemical and biological properties of cocoa beans affected by processing: a review. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2021</b> , 1-32	11.5	2	•
4	A novel starch from lotus (Nelumbo nucifera) seeds: Composition, structure, properties and modifications. <i>Food Hydrocolloids</i> , <b>2021</b> , 120, 106899	10.6	2	
3	Composition of methylxanthines, polyphenols, key odorant volatiles and minerals in 22 cocoa beans obtained from different geographic origins. <i>LWT - Food Science and Technology</i> , <b>2022</b> , 153, 1123	95 <sup>5.4</sup>	2	•
2	Comparison of microwave and conventional heating on physicochemical properties and phenolic profiles of purple sweetpotato and wheat flours. <i>Food Bioscience</i> , <b>2022</b> , 46, 101602	4.9	O	
1	Physicochemical, structural and nutritional properties of steamed bread fortified with red beetroot powder and their changes during breadmaking process <i>Food Chemistry</i> , <b>2022</b> , 383, 132547	8.5	O	