Yanyun Zhao

List of Publications by Year
in descending order

113 papers	6,187 citations	61945 43 h-index	76872 74 g-index
114 all docs	114 docs citations	114 times ranked	6546 citing authors

#	Article	IF	Citations
1	Innovations in the Development and Application of Edible Coatings for Fresh and Minimally Processed Fruits and Vegetables. Comprehensive Reviews in Food Science and Food Safety, 2007, 6, 60-75.	5.9	460
2	Incorporation of a High Concentration of Mineral or Vitamin into Chitosan-Based Films. Journal of Agricultural and Food Chemistry, 2004, 52, 1933-1939.	2.4	308
3	Chemical composition of dietary fiber and polyphenols of five different varieties of wine grape pomace skins. Food Research International, 2011, 44, 2712-2720.	2.9	266
4	Wine grape pomace as antioxidant dietary fibre for enhancing nutritional value and improving storability of yogurt and salad dressing. Food Chemistry, 2013, 138, 356-365.	4.2	260
5	Effect of edible coatings on the quality of fresh blueberries (Duke and Elliott) under commercial storage conditions. Postharvest Biology and Technology, 2011, 59, 71-79.	2.9	236
6	Effect of different drying methods on the myosin structure, amino acid composition, protein digestibility and volatile profile of squid fillets. Food Chemistry, 2015, 171, 168-176.	4.2	159
7	Quality enhancement in fresh and frozen lingcod (Ophiodon elongates) fillets by employment of fish oil incorporated chitosan coatings. Food Chemistry, 2010, 119, 524-532.	4.2	143
8	Effects of pulsed-vacuum and ultrasound on the osmodehydration kinetics and microstructure of apples (Fuji). Journal of Food Engineering, 2008, 85, 84-93.	2.7	132
9	Blueberry leaf extracts incorporated chitosan coatings for preserving postharvest quality of fresh blueberries. Postharvest Biology and Technology, 2014, 92, 46-53.	2.9	118
10	Antifungal Coatings on Fresh Strawberries (Fragaria Ã— ananassa) to Control Mold Growth During Cold Storage. Journal of Food Science, 2005, 70, M202-M207.	1.5	117
11	Preparation, characterization and evaluation of antibacterial activity of catechins and catechinsâ€“Zn complex loaded Î²-chitosan nanoparticles of different particle sizes. Carbohydrate Polymers, 2016, 137, 82-91.	5.1	107
12	Physicochemical, Nutritional, and Sensory Qualities of Wine Grape Pomace Fortified Baked Goods. Journal of Food Science, 2014, 79, S1811-22.	1.5	105
13	Investigation of different coating application methods on the performance of edible coatings on Mozzarella cheese. LWT - Food Science and Technology, 2014, 56, 1-8.	2.5	101
14	Optimization of solvent and ultrasound-assisted extraction for different anthocyanin rich fruit and their effects on anthocyanin compositions. LWT - Food Science and Technology, 2016, 72, 229-238.	2.5	97
15	Chitosan-cellulose nanocrystal microencapsulation to improve encapsulation efficiency and stability of entrapped fruit anthocyanins. Carbohydrate Polymers, 2017, 157, 1246-1253.	5.1	97
16	Postharvest quality of hardy kiwifruit (Actinidia arguta â€˜Ananasnayaâ€™) associated with packaging and storage conditions. Postharvest Biology and Technology, 2008, 47, 338-345.	2.9	95
17	Impact of high hydrostatic pressure on non-volatile and volatile compounds of squid muscles. Food Chemistry, 2016, 194, 12-19.	4.2	95
18	Functional properties, bioactive compounds, and inÂvitro gastrointestinal digestion study of dried fruit pomace powders as functional food ingredients. LWT - Food Science and Technology, 2017, 80, 136-144.	2.5	95

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19	Effect of Different Drying Methods and Storage Time on the Retention of Bioactive Compounds and Antibacterial Activity of Wine Grape Pomace (Pinot Noir and Merlot). Journal of Food Science, 2012, 77, H192-201.	1.5	92
20	Effect of combined chitosan-krill oil coating and modified atmosphere packaging on the storability of cold-stored lingcod (Ophiodon elongates) fillets. Food Chemistry, 2010, 122, 1035-1042.	4.2	84
21	Production of chitin from shrimp shell powders using Serratia marcescens B742 and Lactobacillus plantarum ATCC 8014 successive two-step fermentation. Carbohydrate Research, 2012, 362, 13-20.	1.1	83
22	Preparation, characterization and evaluation of tea polyphenolâ€“Zn complex loaded Î²-chitosan nanoparticles. Food Hydrocolloids, 2015, 48, 260-273.	5.6	79
23	Cellulose nanomaterials emulsion coatings for controlling physiological activity, modifying surface morphology, and enhancing storability of postharvest bananas (Musa acuminate). Food Chemistry, 2017, 232, 359-368.	4.2	78
24	Effects of refrigerated storage and processing technologies on the bioactive compounds and antioxidant capacities of â€˜Marionâ€™ and â€˜Evergreenâ€™ blackberries. LWT - Food Science and Technology, 2010, 43, 1253-1264.	2.5	76
25	High intensity ultrasound assisted heating to improve solubility, antioxidant and antibacterial properties of chitosan-fructose Maillard reaction products. LWT - Food Science and Technology, 2015, 60, 253-262.	2.5	74
26	Influences of High Hydrostatic Pressure, Microwave Heating, and Boiling on Chemical Compositions, Antinutritional Factors, Fatty Acids, In Vitro Protein Digestibility, and Microstructure of Buckwheat. Food and Bioprocess Technology, 2015, 8, 2235-2245.	2.6	72
27	Electrostatic spraying of chitosan coating with different deacetylation degree for strawberry preservation. International Journal of Biological Macromolecules, 2019, 139, 1232-1238.	3.6	70
28	Development and Characterization of Edible Films from Cranberry Pomace Extracts. Journal of Food Science, 2006, 71, E95.	1.5	69
29	The preparation and characterization of chitin and chitosan under large-scale submerged fermentation level using shrimp by-products as substrate. International Journal of Biological Macromolecules, 2017, 96, 334-339.	3.6	67
30	Cellulose nanocrystals Pickering emulsion incorporated chitosan coatings for improving storability of postharvest Bartlett pears (Pyrus communis) during long-term cold storage. Food Hydrocolloids, 2018, 84, 229-237.	5.6	67
31	Effect of Molecular Weight, Acid, and Plasticizer on the Physicochemical and Antibacterial Properties of Î²â€Chitosan Based Films. Journal of Food Science, 2012, 77, E127-36.	1.5	66
32	Cellulose Nanocrystal Reinforced Chitosan Coatings for Improving the Storability of Postharvest Pears Under Both Ambient and Cold Storages. Journal of Food Science, 2017, 82, 453-462.	1.5	66
33	Development, characterization, and validation of chitosan adsorbed cellulose nanofiber (CNF) films as water resistant and antibacterial food contact packaging. LWT - Food Science and Technology, 2017, 83, 132-140.	2.5	66
34	Degradation kinetics and antioxidant capacity of anthocyanins in air-impingement jet dried purple potato slices. Food Research International, 2018, 105, 121-128.	2.9	66
35	Effect of dietary fiber-rich fractions on texture, thermal, water distribution, and gluten properties of frozen dough during storage. Food Chemistry, 2019, 297, 124902.	4.2	66
36	The preservation performance of chitosan coating with different molecular weight on strawberry using electrostatic spraying technique. International Journal of Biological Macromolecules, 2020, 151, 278-285.	3.6	62

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37	Impingement drying for preparing dried apple pomace flour and its fortification in bakery and meat products. Journal of Food Science and Technology, 2015, 52, 5568-5578.	1.4	61
38	Investigation of radio frequency heating uniformity of wheat kernels by using the developed computer simulation model. Food Research International, 2015, 71, 41-49.	2.9	60
39	Effects of Hot Air-assisted Radio Frequency Heating on Quality and Shelf-life of Roasted Peanuts. Food and Bioprocess Technology, 2016, 9, 308-319.	2.6	60
40	Allergenic response to squid (Todarodes pacificus) tropomyosin Tod p1 structure modifications induced by high hydrostatic pressure. Food and Chemical Toxicology, 2015, 76, 86-93.	1.8	58
41	Effect of molecular weight on the properties of chitosan films prepared using electrostatic spraying technique. Carbohydrate Polymers, 2019, 212, 197-205.	5.1	54
42	Characteristics of deacetylation and depolymerization of Î²-chitin from jumbo squid (Dosidicus gigas) pens. Carbohydrate Research, 2011, 346, 1876-1884.	1.1	52
43	Optimization of the fermentation conditions of Rhizopus japonicus M193 for the production of chitin deacetylase and chitosan. Carbohydrate Polymers, 2014, 101, 57-67.	5.1	46
44	Effects of high hydrostatic pressure, ultraviolet light-C, and far-infrared treatments on the digestibility, antioxidant and antihypertensive activity of Î±-casein. Food Chemistry, 2017, 221, 1860-1866.	4.2	45
45	Comparison in antioxidant action between Î±-chitosan and Î²-chitosan at a wide range of molecular weight and chitosan concentration. Bioorganic and Medicinal Chemistry, 2012, 20, 2905-2911.	1.4	42
46	Investigation of drying conditions on bioactive compounds, lipid oxidation, and enzyme activity of Oregon hazelnuts (Corylus avellana L.). LWT - Food Science and Technology, 2018, 90, 526-534.	2.5	42
47	Physicochemical, Microstructural, and Antibacterial Properties of Î²â€Chitosan and Kudzu Starch Composite Films. Journal of Food Science, 2012, 77, E280-6.	1.5	41
48	Preparation and characterization of cellulose nanocrystals films incorporated with essential oil loaded Î²-chitosan beads. Food Hydrocolloids, 2017, 69, 164-172.	5.6	41
49	Investigation of the Feasibility of Radio Frequency Energy for Controlling Insects in Milled Rice. Food and Bioprocess Technology, 2017, 10, 781-788.	2.6	41
50	Antimicrobial, antioxidant and physical properties of chitosan film containing Akebia trifoliata (Thunb.) Koidz. peel extract/montmorillonite and its application. Food Chemistry, 2021, 361, 130111.	4.2	40
51	Compressionâ€molded biocomposite boards from red and white wine grape pomaces. Journal of Applied Polymer Science, 2011, 119, 2834-2846.	1.3	38
52	Development and preliminary field validation of water-resistant cellulose nanofiber based coatings with high surface adhesion and elasticity for reducing cherry rain-cracking. Scientia Horticulturae, 2016, 200, 161-169.	1.7	38
53	Physicochemical characteristics and emulsification properties of cellulose nanocrystals stabilized O/W pickering emulsions with high -OSO3- groups. Food Hydrocolloids, 2019, 96, 267-277.	5.6	38
54	Characterization of Volatile Compounds in Microfiltered Pasteurized Milk Using Solid-Phase Microextraction and GCÃ—GC-TOFMS. International Journal of Food Properties, 2015, 18, 2193-2212.	1.3	37

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55	Optimization of bleaching process for cellulose extraction from apple and kale pomace and evaluation of their potentials as film forming materials. Carbohydrate Polymers, 2021, 253, 117225.	5.1	37
56	Effects of salting-in/out-assisted extractions on structural, physicochemical and functional properties of Tenebrio molitor larvae protein isolates. Food Chemistry, 2021, 338, 128158.	4.2	36
57	Structure, physicochemical and bioactive properties of dietary fibers from Akebia trifoliata (Thunb.) Koidz. seeds using ultrasonication/shear emulsifying/microwave-assisted enzymatic extraction. Food Research International, 2020, 136, 109348.	2.9	35
58	Impact of the Structural Differences between Î±- and Î²-Chitosan on Their Depolymerizing Reaction and Antibacterial Activity. Journal of Agricultural and Food Chemistry, 2013, 61, 8783-8789.	2.4	34
59	Structure and IgE-binding properties of Î±-casein treated by high hydrostatic pressure, UV-C, and far-IR radiations. Food Chemistry, 2016, 204, 46-55.	4.2	34
60	Hot-air assisted continuous radio frequency heating for improving drying efficiency and retaining quality of inshell hazelnuts (Corylus avellana L. cv. Barcelona). Journal of Food Engineering, 2020, 279, 109956.	2.7	33
61	Impact of Radio Frequency, Microwaving, and High Hydrostatic Pressure at Elevated Temperature on the Nutritional and Antinutritional Components in Black Soybeans. Journal of Food Science, 2015, 80, C2732-9.	1.5	32
62	Development of effective drying strategy with a combination of radio frequency (RF) and convective hot-air drying for inshell hazelnuts and enhancement of nut quality. Innovative Food Science and Emerging Technologies, 2021, 67, 102555.	2.7	29
63	In vitro anti-inflammatory and antioxidant activities and protein quality of high hydrostatic pressure treated squids (Todarodes pacificus). Food Chemistry, 2016, 203, 258-266.	4.2	28
64	Investigation of the Mechanisms of Using Metal Complexation and Cellulose Nanofiber/Sodium Alginate Layer-by-Layer Coating for Retaining Anthocyanin Pigments in Thermally Processed Blueberries in Aqueous Media. Journal of Agricultural and Food Chemistry, 2015, 63, 3031-3038.	2.4	27
65	Fruit pomace as a source of alternative fibers and cellulose nanofiber as reinforcement agent to create molded pulp packaging boards. Composites Part A: Applied Science and Manufacturing, 2017, 99, 48-57.	3.8	27
66	Investigation of physicochemical, nutritional, and sensory qualities of muffins incorporated with dried brewer's spent grain flours as a source of dietary fiber and protein. Journal of Food Science, 2020, 85, 3943-3953.	1.5	27
67	Preparation, characterization and toxicology properties of Î±- and Î²-chitosan Maillard reaction products nanoparticles. International Journal of Biological Macromolecules, 2016, 89, 287-296.	3.6	26
68	Fabrication of thermally and mechanically stable superhydrophobic coatings for cellulose-based substrates with natural and edible ingredients for food applications. Food Hydrocolloids, 2021, 120, 106877.	5.6	26
69	Nutritional, Sensory, and Physicochemical Properties of Vitamin E- and Mineral-fortified Fresh-cut Apples by Use of Vacuum Impregnation. Journal of Food Science, 2005, 70, S593-S599.	1.5	25
70	Development, characterization and validation of starch based biocomposite films reinforced by cellulose nanofiber as edible muffin liner. Food Packaging and Shelf Life, 2021, 28, 100655.	3.3	25
71	Investigation of hot-air assisted radio frequency (HARF) dielectric heating for improving drying efficiency and ensuring quality of dried hazelnuts (Corylus avellana L.). Food and Bioproducts Processing, 2020, 120, 179-190.	1.8	24
72	Retaining Green Pigments on Thermally Processed Peels-on Green Pears. Journal of Food Science, 2006, 70, C568-C574.	1.5	23

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73	Effect of deacetylation degree on properties of Chitosan films using electrostatic spraying technique. Food Control, 2019, 97, 25-31.	2.8	23
74	Alkali- or acid-induced changes in structure, moisture absorption ability and deacetylating reaction of Î²-chitin extracted from jumbo squid (Dosidicus gigas) pens. Food Chemistry, 2014, 152, 355-362.	4.2	22
75	Mechanisms and performance of cellulose nanocrystals Pickering emulsion chitosan coatings for reducing ethylene production and physiological disorders in postharvest â€˜Bartlettâ€™ pears (Pyrus) Tj ETQq1 1 0.784314 rgBT /Overlo	4.2	22
76	Effect of Singleâ€•and Twoâ€Cycle High Hydrostatic Pressure Treatments on Water Properties, Physicochemical and Microbial Qualities of Minimally Processed Squids (Todarodes pacificus). Journal of Food Science, 2015, 80, E1012-20.	1.5	21
77	Distance education is as effective as traditional education when teaching food safetys. Journal of Foodservice, 2004, 4, 1-8.	1.5	20
78	A review of cellulose nanomaterials incorporated fruit coatings with improved barrier property and stability: Principles and applications. Journal of Food Process Engineering, 2020, 43, e13344.	1.5	20
79	Effect of high hydrostatic pressure conditions on the composition, morphology, rheology, thermal behavior, color, and stability of black garlic melanoidins. Food Chemistry, 2021, 337, 127790.	4.2	20
80	Stabilization of anthocyanins on thermally processed red D'Anjou pears through complexation and polymerization. LWT - Food Science and Technology, 2009, 42, 1144-1152.	2.5	19
81	Structure-based modelling of hemocyanin allergenicity in squid and its response to high hydrostatic pressure. Scientific Reports, 2017, 7, 40021.	1.6	19
82	Delaying ripening of â€˜Bartlettâ€™ pears (Pyrus communis) during long-term simulated industrial cold storage: Mechanisms and validation of chitosan coatings with cellulose nanocrystals Pickering emulsions. LWT - Food Science and Technology, 2020, 122, 109053.	2.5	19
83	Hot Air-Assisted Radio Frequency Stabilizing Treatment Effects on Physicochemical Properties, Enzyme Activities and Nutritional Quality of Wheat Germ. Food and Bioprocess Technology, 2020, 13, 901-910.	2.6	19
84	Investigation of hot-air assisted continuous radio frequency drying for improving drying efficiency and reducing shell cracks of inshell hazelnuts: The relationship between cracking level and nut quality. Food and Bioproducts Processing, 2021, 125, 46-56.	1.8	19
85	Effects of Different Organic Weed Management Strategies on the Physicochemical, Sensory, and Antioxidant Properties of Machineâ€Harvested Blackberry Fruits. Journal of Food Science, 2014, 79, S2107-16.	1.5	18
86	Microwaveâ€assisted degradation of chitosan with hydrogen peroxide treatment using Boxâ€Behnken design for enhanced antibacterial activity. International Journal of Food Science and Technology, 2018, 53, 156-165.	1.3	17
87	Use of Sodium Dodecyl Sulfate Pretreatment and 2â€stage Curing for Improved Quality of Salted Duck Eggs. Journal of Food Science, 2014, 79, E354-61.	1.5	16
88	Mushroom polysaccharidesâ€incorporated cellulose nanofiber films with improved mechanical, moisture barrier, and antioxidant properties. Journal of Applied Polymer Science, 2018, 135, 46166.	1.3	16
89	Optimization of High Hydrostatic Pressure Treatments on Soybean Protein Isolate to Improve Its Functionality and Evaluation of Its Application in Yogurt. Foods, 2021, 10, 667.	1.9	16
90	Investigation of the mechanisms and strategies for reducing shell cracks of hazelnut (Corylus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 T	2.5	15

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91	Optimization of microwave vacuum drying of okra and the study of the product quality. Journal of Food Process Engineering, 2020, 43, e13337.	1.5	15
92	Feasibility of creating compressionâ€molded biocomposite boards from berry fruit pomaces. Journal of Applied Polymer Science, 2010, 115, 127-136.	1.3	14
93	The contribution of acidulant to the antibacterial activity of acid soluble Î±- and Î²-chitosan solutions and their films. Applied Microbiology and Biotechnology, 2014, 98, 425-435.	1.7	13
94	AFM and NMR imaging of squid tropomyosin Tod p1 subjected to high hydrostatic pressure: evidence for relationships among topography, characteristic domain and allergenicity. RSC Advances, 2015, 5, 73207-73216.	1.7	13
95	Hydroxypropyl methylcellulose or soy protein isolateâ€based edible, waterâ€soluble, and antioxidant films for safflower oil packaging. Journal of Food Science, 2021, 86, 129-139.	1.5	13
96	Impact of Acidity and Metal Ion on the Antibacterial Activity and Mechanisms of Î²- and Î±-Chitosan. Applied Biochemistry and Biotechnology, 2015, 175, 2972-2985.	1.4	12
97	Significant improvements in the characterization of volatile compound profiles in squid using simultaneous distillation-extraction and GCÃ—GC-TOFMS. CYTA - Journal of Food, 2015, 13, 434-444.	0.9	10
98	Moisture Adsorption Isotherm and Storability of Hazelnut Inshells and Kernels Produced in Oregon, USA. Journal of Food Science, 2018, 83, 340-348.	1.5	10
99	Evaluation of Consumer Acceptance and Quality of Thermally and High Hydrostatic Pressure Processed Blueberries and Cherries Subjected to Cellulose Nanofiber (CNF) Incorporated Water-Resistant Coating Treatment. Food and Bioprocess Technology, 2018, 11, 1412-1421.	2.6	10
100	Quality and Consumer Acceptance of Berry Fruit Pomaceâ€“Fortified Specialty Mustard. Journal of Food Science, 2018, 83, 1921-1932.	1.5	8
101	Preparation, Optimization, and Characterization of Natural Apple Essenceâ€Loaded Liposomes. Journal of Food Science, 2019, 84, 540-547.	1.5	8
102	Color Quality of Fresh and Processed Strawberries. ACS Symposium Series, 2008, , 18-42.	0.5	7
103	Effect of Edible Coating on Volatile Compounds of Hardy Kiwifruit during Storage. ACS Symposium Series, 2010, , 79-94.	0.5	7
104	Antihypertensive effect of few-flower wild rice (Zizania latifolia Turcz.) in spontaneously hypertensive rats. Food Science and Biotechnology, 2014, 23, 439-444.	1.2	7
105	Effect of bilayer coating composed of polyvinyl alcohol, chitosan, and sodium alginate on salted duck eggs. International Journal of Food Properties, 2018, 21, 868-878.	1.3	7
106	Investigation of mechanisms and approaches for improving hydrophobicity of molded pulp biocomposites produced from apple pomace. Food and Bioproducts Processing, 2022, 133, 1-15.	1.8	7
107	Impact of Far-Infrared Radiation Assisted Heat Pump Drying on Moisture Distribution and Rehydration Kinetics of Squid Fillets During Rehydration. Journal of Aquatic Food Product Technology, 2016, 25, 147-155.	0.6	6
108	Investigation of ecoâ€friendly chemical treatments of apple pomace for producing high quality molded pulp biocomposite. Journal of Applied Polymer Science, 2021, 138, 51363.	1.3	6

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109	Optimized production of Serratia marcescens B742 mutants for preparing chitin from shrimp shells powders. International Journal of Biological Macromolecules, 2014, 69, 319-328.	3.6	5
110	Edible Coatings for Extending Shelf-Life of Fresh Produce During PostharvestÂStorage. , 2019, , 506-510.		5
111	Edible Coatings for Enhancing Quality and Health Benefits of Berry Fruits. ACS Symposium Series, 2010, , 281-292.	0.5	3
112	Recent advancements in encapsulation of chitosan-based enzymes and their applications in food industry. Critical Reviews in Food Science and Nutrition, 2023, 63, 11044-11062.	5.4	3
113	Synthesis and characterization of novel trialdehyde, tribenzylamine, and triamine from triolein. European Journal of Lipid Science and Technology, 2015, 117, 1179-1184.	1.0	1