

Natural products for glycaemic control: Polyphenols as

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Impact of different extraction solvents and techniques on the biological activities of <i>Cirsium yildizianum</i> (Asteraceae: Cynareae). <i>Industrial Crops and Products</i> , 2020, 144, 112033.	5.2	14
2	Inhibition of $\alpha$ -amylase by polyphenolic compounds: Substrate digestion, binding interactions and nutritional intervention. <i>Trends in Food Science and Technology</i> , 2020, 104, 190-207.	15.1	99
3	Integrated phytochemistry, bio-functional potential and multivariate analysis of <i>Tanacetum macrophyllum</i> (Waldst. & Kit.) Sch.Bip. and <i>Telekia speciosa</i> (Schreb.) Baumg. (Asteraceae). <i>Industrial Crops and Products</i> , 2020, 155, 112817.	5.2	30
4	Caffeoyl substitution changes the inhibition mode of tartaric acid against $\alpha$ -amylase: Analysis of the enzyme inhibition by four caffeic and tartaric acid derivatives. <i>LWT - Food Science and Technology</i> , 2020, 133, 109942.	5.2	13
5	So Uncommon and so Singular, but Underexplored: An Updated Overview on Ethnobotanical Uses, Biological Properties and Phytoconstituents of Sardinian Endemic Plants. <i>Plants</i> , 2020, 9, 958.	3.5	16
6	Screening and identifying of $\alpha$ -amylase inhibitors from medicine food homology plants: Insights from computational analysis and experimental studies. <i>Journal of Food Biochemistry</i> , 2020, 44, e13536.	2.9	10
7	Polyphenol Profile and Biological Activity Comparisons of Different Parts of <i>Astragalus macrocephalus</i> subsp. <i>finitimus</i> from Turkey. <i>Biology</i> , 2020, 9, 231.	2.8	17
8	A systematic review of <i>in vitro</i> studies evaluating the inhibitory effects of polyphenol-rich fruit extracts on carbohydrate digestive enzymes activity: a focus on culinary fruits consumed in Europe. <i>Critical Reviews in Food Science and Nutrition</i> , 2021, 61, 3783-3803.	10.3	13
9	In Vitro Bioaccessibility of Extractable Compounds from Tannat Grape Skin Possessing Health Promoting Properties with Potential to Reduce the Risk of Diabetes. <i>Foods</i> , 2020, 9, 1575.	4.3	13
10	Facile in situ synthesis of silver nanoparticles on tannic acid/zein electrospun membranes and their antibacterial, catalytic and antioxidant activities. <i>Food Chemistry</i> , 2020, 330, 127172.	8.2	39
11	Chemical Composition, Antioxidant and Enzyme Inhibitory Properties of Different Extracts Obtained from Spent Coffee Ground and Coffee Silverskin. <i>Foods</i> , 2020, 9, 713.	4.3	46
12	Potential anti-diabetic properties of Merlot grape pomace extract: An in vitro, in silico and in vivo study of $\alpha$ -amylase and $\alpha$ -glucosidase inhibition. <i>Food Research International</i> , 2020, 137, 109462.	6.2	42
13	Number of galloyl moieties and molecular flexibility are both important in alpha-amylase inhibition by galloyl-based polyphenols. <i>Food and Function</i> , 2020, 11, 3838-3850.	4.6	27
14	A new benzofuran glycoside from the fruit of <i>Clausena lansium</i> . <i>Natural Product Research</i> , 2022, 36, 501-507.	1.8	3
15	Designing food structure to slow down digestion in starch-rich products. <i>Current Opinion in Food Science</i> , 2020, 32, 50-57.	8.0	53
16	Qualitative Phytochemical Fingerprint and Network Pharmacology Investigation of <i>Achyranthes aspera</i> Linn. Extracts. <i>Molecules</i> , 2020, 25, 1973.	3.8	20
17	Interactions between phenolic compounds, amylolytic enzymes and starch: an updated overview. <i>Current Opinion in Food Science</i> , 2020, 31, 102-113.	8.0	101
18	Maltoheptaoside hydrolysis with chromatographic detection and starch hydrolysis with reducing sugar analysis: Comparison of assays allows assessment of the roles of direct $\alpha$ -amylase inhibition and starch complexation. <i>Food Chemistry</i> , 2021, 343, 128423.	8.2	15

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19	In vitro and in silico inhibition of $\alpha$ -amylase, $\alpha$ -glucosidase, and aldose reductase by the leaf and callus extracts of <i>Vernonia anthelmintica</i> (L.) Willd.. <i>Advances in Traditional Medicine</i> , 2022, 22, 125-139.	2.0	2
20	Potential of Red Winemaking Byproducts as Health-Promoting Food Ingredients. <i>Food Engineering Series</i> , 2021, , 205-248.	0.7	1
21	Rapid qualitative profiling and quantitative analysis of phenolics in <i>Ribes meyeri</i> leaves and their antioxidant and antidiabetic activities by HPLC-QTOF-MS/MS and UHPLC-MS/MS. <i>Journal of Separation Science</i> , 2021, 44, 1404-1420.	2.5	24
22	Investigation of phytochemical composition and enzyme inhibitory potential of <i>Anagallis arvensis</i> L.. <i>Natural Product Research</i> , 2021, , 1-6.	1.8	2
23	Bound Polyphenols from Insoluble Dietary Fiber of Defatted Rice Bran by Solid-State Fermentation with <i>Trichoderma viride</i> : Profile, Activity, and Release Mechanism. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 5026-5039.	5.2	27
24	Seaweed Components as Potential Modulators of the Gut Microbiota. <i>Marine Drugs</i> , 2021, 19, 358.	4.6	52
25	Anticancer and biological properties of leaf and flower extracts of <i>Echinacea purpurea</i> (L.) Moench. <i>Food Bioscience</i> , 2021, 41, 101005.	4.4	16
26	In Vitro Bioaccessibility of Bioactive Compounds from Citrus Pomaces and Orange Pomace Biscuits. <i>Molecules</i> , 2021, 26, 3480.	3.8	15
27	Catechin-grafted arabinoxylan conjugate: Preparation, structural characterization and property investigation. <i>International Journal of Biological Macromolecules</i> , 2021, 182, 796-805.	7.5	17
28	Antidiabetic potential of dietary polyphenols: A mechanistic review. <i>Food Research International</i> , 2021, 145, 110383.	6.2	41
29	Plant cellular architecture and chemical composition as important regulator of starch functionality in whole foods. <i>Food Hydrocolloids</i> , 2021, 117, 106744.	10.7	23
30	Shedding Light into the Connection between Chemical Components and Biological Effects of Extracts from <i>Epilobium hirsutum</i> : Is It a Potent Source of Bioactive Agents from Natural Treasure?. <i>Antioxidants</i> , 2021, 10, 1389.	5.1	8
31	Understanding phenolic acids inhibition of $\alpha$ -amylase and $\alpha$ -glucosidase and influence of reaction conditions. <i>Food Chemistry</i> , 2022, 372, 131231.	8.2	91
32	Starch-digesting product analysis based on the hydrophilic interaction liquid chromatography coupled mass spectrometry method to evaluate the inhibition of flavonoids on pancreatic $\alpha$ -amylase. <i>Food Chemistry</i> , 2022, 372, 131175.	8.2	5
33	Can starch-polyphenol V-type complexes be considered as resistant starch?. <i>Food Hydrocolloids</i> , 2022, 124, 107226.	10.7	30
34	Essential moieties of myricetins, quercetins and catechins for binding and inhibitory activity against $\alpha$ -Glucosidase. <i>Bioorganic Chemistry</i> , 2021, 115, 105235.	4.1	30
35	Caffeoyl substitution decreased the binding and inhibitory activity of quinic acid against $\alpha$ -amylase: The reason why chlorogenic acid is a relatively weak enzyme inhibitor. <i>Food Chemistry</i> , 2022, 371, 131278.	8.2	14
36	Structure-activity relationship and interaction mechanism of nine structurally similar flavonoids and $\alpha$ -amylase. <i>Journal of Functional Foods</i> , 2021, 86, 104739.	3.4	6

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37	Determination of nutritional constituents, antioxidant properties, and $\alpha$ -amylase inhibitory activity of <i>Sechium edule</i> (chayote) shoot from different extraction solvents and cooking methods. <i>LWT - Food Science and Technology</i> , 2021, 151, 112177.	5.2	4
38	Number of galloyl moiety and intramolecular bonds in galloyl-based polyphenols affect their interaction with alpha-glucosidase. <i>Food Chemistry</i> , 2022, 367, 129846.	8.2	19
39	Comparison of quercetin and rutin inhibitory influence on Tartary buckwheat starch digestion in vitro and their differences in binding sites with the digestive enzyme. <i>Food Chemistry</i> , 2022, 367, 130762.	8.2	33
40	Role of Natural Bio-active Compounds as Antidiabetic Agents. <i>Advanced Structured Materials</i> , 2021, , 535-561.	0.5	2
41	Purple onion in combination with garlic exerts better ameliorative effects on selected biomarkers in high-sucrose diet-fed fruit fly ( <i>Drosophila melanogaster</i> ). <i>Comparative Clinical Pathology</i> , 2020, 29, 713-720.	0.7	5
42	The mechanism of delaying starch digestion by luteolin. <i>Food and Function</i> , 2021, 12, 11862-11871.	4.6	8
43	Both Acidic pH Value and Binding Interactions of Tartaric Acid With $\alpha$ -Glucosidase Cause the Enzyme Inhibition: The Mechanism in $\alpha$ -Glucosidase Inhibition of Four Caffeic and Tartaric Acid Derivates. <i>Frontiers in Nutrition</i> , 2021, 8, 766756.	3.7	5
44	Effect of polyphenolic compounds on starch retrogradation and in vitro starch digestibility of rice cakes under different storage temperatures. <i>Food Biophysics</i> , 2022, 17, 26-37.	3.0	3
45	Advance in dietary polyphenols as dipeptidyl peptidase-IV inhibitors to alleviate type 2 diabetes mellitus: aspects from structure-activity relationship and characterization methods. <i>Critical Reviews in Food Science and Nutrition</i> , 2023, 63, 3452-3467.	10.3	17
46	Cabbage ( <i>Brassica oleracea</i> var. <i>capitata</i> ): A food with functional properties aimed to type 2 diabetes prevention and management. <i>Journal of Food Science</i> , 2021, 86, 4775-4798.	3.1	16
47	$\alpha$ -Amylase inhibition, cytotoxicity and influence of the in vitro gastrointestinal digestion on the bioaccessibility of phenolic compounds in the peel and seed of <i>Theobroma grandiflorum</i> . <i>Food Chemistry</i> , 2022, 373, 131494.	8.2	9
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49	The inhibitory mechanism of chlorogenic acid and its acylated derivatives on $\alpha$ -amylase and $\alpha$ -glucosidase. <i>Food Chemistry</i> , 2022, 372, 131334.	8.2	46
50	Tea and coffee polyphenols and their biological properties based on the latest in vitro investigations. <i>Industrial Crops and Products</i> , 2022, 175, 114265.	5.2	56
51	Inhibition Mechanism of Berberine on $\alpha$ -Amylase and $\alpha$ -Glucosidase in Vitro. <i>Starch/Staerke</i> , 2022, 74, 2100231.	2.1	11
52	Lowering the predicted glycemic index of pasta using dried onions as functional ingredients. <i>International Journal of Food Sciences and Nutrition</i> , 2022, 73, 443-450.	2.8	3
53	Potential of phenolic compounds in <i>Ligustrum robustum</i> (R.oxb.) Blume as antioxidant and lipase inhibitors: Multi-spectroscopic methods and molecular docking. <i>Journal of Food Science</i> , 2022, 87, 651-663.	3.1	12
54	Viscosity-Based Flow Sensor on Paper for Quantitative and Label-Free Detection of $\alpha$ -Amylase and Its Inhibitor. <i>ACS Sensors</i> , 2022, 7, 593-600.	7.8	12

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55	Potential Mechanisms Involved in the Protective Effect of Dicafeoylquinic Acids from <i>Artemisia annua</i> L. Leaves against Diabetes and Its Complications. <i>Molecules</i> , 2022, 27, 857.	3.8	8
56	Trends in the enzymatic inhibition by natural extracts. , 2022, , 413-425.		0
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58	Thinned Nectarines, an Agro-Food Waste with Antidiabetic Potential: HPLC-HESI-MS/MS Phenolic Characterization and In Vitro Evaluation of Their Beneficial Activities. <i>Foods</i> , 2022, 11, 1010.	4.3	10
59	Hypoglycemic bioactivity of anthocyanins: A review on proposed targets and potential signaling pathways. <i>Critical Reviews in Food Science and Nutrition</i> , 2023, 63, 7878-7895.	10.3	10
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61	Biophysical and Structural Insights in $\alpha$ -Amylase and Bile Acids interaction. <i>ChemistrySelect</i> , 2022, 7, .	1.5	0
62	Adzuki bean ( <i>Vigna angularis</i> ): Chemical compositions, physicochemical properties, health benefits, and food applications. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2022, 21, 2335-2362.	11.7	14
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64	Starch gels enriched with phenolics: Effects on paste properties, structure and digestibility. <i>LWT - Food Science and Technology</i> , 2022, 161, 113350.	5.2	11
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67	A Structure-Activity Relationship Study of the Inhibition of $\alpha$ -Amylase by Benzoic Acid and Its Derivatives. <i>Nutrients</i> , 2022, 14, 1931.	4.1	6
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70	Biodegradable-Renewable Vitriimer Fabrication by Epoxidized Natural Rubber and Oxidized Starch with Robust Ductility and Elastic Recovery. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 7942-7953.	6.7	23
71	The flavonoid profiles in the pulp of different pomelo ( <i>Citrus grandis</i> L. Osbeck) and grapefruit ( <i>Citrus paradisi</i> Mcfad) cultivars and their in vitro bioactivity. <i>Food Chemistry: X</i> , 2022, 15, 100368.	4.3	13
72	Main factors affecting the starch digestibility in Chinese steamed bread. <i>Food Chemistry</i> , 2022, 393, 133448.	8.2	6

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74	The inhibitory mechanism of amylase inhibitors and research progress in nanoparticle-based inhibitors. <i>Critical Reviews in Food Science and Nutrition</i> , 2023, 63, 12126-12135.	10.3	11
75	Relations between <i>in vitro</i> starch digestibility of commercial baked products and their macronutrients. <i>Journal of the Science of Food and Agriculture</i> , 0, , .	3.5	0
76	Gathering scientific evidence for a new bioactive natural ingredient: The combination between chemical profiles and biological activities of <i>Flueggea virosa</i> extracts. <i>Food Bioscience</i> , 2022, 49, 101967.	4.4	8
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78	Therapeutic potential of non-starch polysaccharides on type 2 diabetes: from hypoglycemic mechanism to clinical trials. <i>Critical Reviews in Food Science and Nutrition</i> , 2024, 64, 1177-1210.	10.3	6
79	A dark purple multifunctional ingredient from blueberry pomace enhanced with lactic acid bacteria for various applications. <i>Journal of Food Science</i> , 2022, 87, 4725-4737.	3.1	2
80	Dietary compounds slow starch enzymatic digestion: A review. <i>Frontiers in Nutrition</i> , 0, 9, .	3.7	6
81	Effect of fermentation on ameliorative properties of tamarind seed ( <i>Tamarindus indica</i> ) in sucrose-induced diabetic-like biochemical alterations in <i>Drosophila melanogaster</i> . <i>Journal of Food Processing and Preservation</i> , 2022, 46, .	2.0	2
82	Purification, composition and activity of bound polyphenols from mung bean coat dietary fiber. <i>Food Research International</i> , 2022, 162, 111997.	6.2	6
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84	Dietary Polyphenols as Natural Inhibitors of $\hat{\pm}$ -Amylase and $\hat{\pm}$ -Glucosidase. <i>Life</i> , 2022, 12, 1692.	2.4	24
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86	Phenolic compounds of "blue food" <i>Porphyra haitanensis</i> : Chemical fingerprints, antioxidant activities, and <i>in vitro</i> antiproliferative activities against HepG2 cells. <i>Food Research International</i> , 2022, 162, 112139.	6.2	2
87	Factors influencing the starch digestibility of starchy foods: A review. <i>Food Chemistry</i> , 2023, 406, 135009.	8.2	20
88	Inhibitory mechanism of phenolic compounds in rapeseed oil on $\hat{\pm}$ -amylase and $\hat{\pm}$ -glucosidase: Spectroscopy, molecular docking, and molecular dynamic simulation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2023, 289, 122251.	3.9	8
89	Nanotechnology approach for exploring the enhanced bioactivities, biochemical characterisation and phytochemistry of freshly prepared <i>Mentha arvensis</i> L. nanosuspensions. <i>Phytochemical Analysis</i> , 0, , .	2.4	2
90	Dual Regulation of Sulfonated Lignin to Prevent and Treat Type 2 Diabetes Mellitus. <i>Biomacromolecules</i> , 2023, 24, 841-848.	5.4	2

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91	In Vitro Micropropagation of Endangered <i>Achillea fragrantissima</i> Forssk. Combined with Enhancement of Its Antihyperglycemic Activity. <i>Agronomy</i> , 2023, 13, 278.	3.0	2
92	Phenolic profile, $\alpha$ -amylase inhibition and molecular docking scrutiny of the trunk bark of <i>Pinus pinea</i> growing in Tunisia. <i>Plant Biosystems</i> , 2023, 157, 357-366.	1.6	0
93	Implication of solvent polarities on browntop millet ( <i>Urochloa ramosa</i> ) phenolic antioxidants and their ability to protect oxidative DNA damage and inhibit $\alpha$ -amylase and $\alpha$ -glucosidase enzymes. <i>Food Chemistry</i> , 2023, 411, 135474.	8.2	3
94	Inhibition mechanisms of wounded okra on the $\alpha$ -glucosidase/ $\alpha$ -amylase. <i>Food Bioscience</i> , 2023, 51, 102333.	4.4	3
95	Production of $\alpha$ -Amylase from <i>Bacillus megaterium</i> MD-1. <i>Türk Doğa Ve Fen Dergisi</i> , 0, , .	0.5	0
96	Exploring the inhibitory mechanism of p-coumaric acid on $\alpha$ -amylase via multi-spectroscopic analysis, enzymatic inhibition assay and molecular docking. <i>Food Hydrocolloids</i> , 2023, 139, 108524.	10.7	10
97	Synthesis of ECG (( $\alpha$ )-epicatechin gallate) acylated derivatives as new inhibitors of $\alpha$ -amylase and their mechanism on delaying starch digestion. <i>Food Bioscience</i> , 2023, 52, 102466.	4.4	4
98	Integrated metabolite analysis and health-relevant in vitro functionality of white, red, and orange maize ( <i>Zea mays</i> L.) from the Peruvian Andean race Cabanita at different maturity stages. <i>Frontiers in Nutrition</i> , 0, 10, .	3.7	2
99	<i>Corchorus olitorius</i> extract exhibit anti-hyperglycemic and anti-inflammatory properties in rodent models of obesity and diabetes mellitus. <i>Frontiers in Nutrition</i> , 0, 10, .	3.7	5
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101	Preparation And Application of $\alpha$ - Amylase Inhibitors. , 0, 45, 334-339.		0
102	Total phenol, flavonoids, and tannin contents, antimicrobial, antioxidant, vital digestion enzymes inhibitory and cytotoxic activities of <i>Verbascum fruticosum</i> . <i>European Journal of Integrative Medicine</i> , 2023, 60, 102256.	1.7	1
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104	Insights on the Hypoglycemic Potential of <i>Crocus sativus</i> Tepal Polyphenols: An In Vitro and In Silico Study. <i>International Journal of Molecular Sciences</i> , 2023, 24, 9213.	4.1	2
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106	Elucidation of $\alpha$ -amylase inhibition by natural shikimic acid derivatives regarding the infrequent uncompetitive inhibition mode and structure-activity relationship. <i>Food Frontiers</i> , 2023, 4, 2058-2069.	7.4	2
107	Antibacterial and enzyme inhibitory activities of flavan-3-ol monomers and procyanidin-rich grape seed fractions. <i>Journal of Functional Foods</i> , 2023, 107, 105643.	3.4	2
108	Binding interactions between protein and polyphenol decreases inhibitory activity of the polyphenol against $\alpha$ -amylase: A new insight into the effect of dietary components on starch-hydrolyzing enzyme inhibition. <i>Food Hydrocolloids</i> , 2023, 144, 109005.	10.7	3



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109	Comparative analysis of the interaction of oroxylin A with two sources of $\alpha$ -glucosidase and $\alpha$ -amylase. <i>Journal of Molecular Structure</i> , 2023, 1292, 136176.	3.6	0
110	A comprehensive review on food hydrocolloids as gut modulators in the food matrix and nutrition: The hydrocolloid-gut-health axis. <i>Food Hydrocolloids</i> , 2023, 145, 109068.	10.7	4
111	Release characteristic of bound polyphenols from tea residues insoluble dietary fiber by mixed solid-state fermentation with cellulose degrading strains CZ-6 and CZ-7. <i>Food Research International</i> , 2023, 173, 113319.	6.2	2
112	Effects of coarse cereals on dough and Chinese steamed bread “a review. <i>Frontiers in Nutrition</i> , 0, 10, .	3.7	0
113	Anti-Diabetic Activity of Glycyrrhetic Acid Derivatives FC-114 and FC-122: Scale-Up, In Silico, In Vitro, and In Vivo Studies. <i>International Journal of Molecular Sciences</i> , 2023, 24, 12812.	4.1	1
114	Fruit and vegetable polyphenols as natural bioactive inhibitors of pancreatic lipase and cholesterol esterase: Inhibition mechanisms, polyphenol influences, application challenges. <i>Food Bioscience</i> , 2023, 55, 103054.	4.4	3
115	Probing gallic acid–starch interactions through Rapid ViscoAnalyzer in vitro digestion. <i>Food Research International</i> , 2023, 173, 113409.	6.2	1
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117	Effect of burdock on the regulation of gut microbiota in hyperglycemic rats and its in vitro digestion and fermentation characteristics. <i>Food Bioscience</i> , 2023, 56, 103191.	4.4	1
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121	Determination of the critical pH for unfolding water-soluble cod protein and its effect on encapsulation capacities. <i>Food Research International</i> , 2023, 174, 113621.	6.2	2
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125	Inhibition mechanism of $\alpha$ -glucosidase by three geranylated compounds: Kinetic, spectroscopic and molecular docking. <i>Process Biochemistry</i> , 2024, 136, 237-244.	3.7	0
126	Screening and Characterization of an $\alpha$ -Amylase Inhibitor from <i>Carya cathayensis</i> Sarg. <i>Peel. Foods</i> , 2023, 12, 4425.	4.3	0



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128	Characterization and bioactivities of coffee husks extract encapsulated with polyvinylpyrrolidone. <i>Food Research International</i> , 2024, 178, 113878.	6.2	0
129	Research progresses on the effect of drying technology on $\hat{\alpha}$ -glucosidase inhibitors in plants. , 0, 69, 538-544.		0
130	Inhibitory effect and mechanism of tannic acid against two starch digestive enzymes. <i>Food Quality and Safety</i> , 2024, 8, .	1.8	0
131	Effect of tea polyphenols supplement on growth performance, antioxidation, and gut microbiota in squabs. <i>Frontiers in Microbiology</i> , 0, 14, .	3.5	0
132	Molecular interactions between polyphenols and porcine $\hat{\alpha}$ -amylase: An inhibition study on starch granules probed by kinetic, spectroscopic, calorimetric and in silico techniques. <i>Food Hydrocolloids</i> , 2024, 151, 109821.	10.7	0
133	Dietary phenolic compounds as promising therapeutic agents for diabetes and its complications: A comprehensive review. <i>Food Science and Nutrition</i> , 2024, 12, 3025-3045.	3.4	0
134	Onion ( <i>Allium cepa</i> L.) Skin Waste Valorization: Unveiling the Phenolic Profile and Biological Potential for the Creation of Bioactive Agents through Subcritical Water Extraction. <i>Antioxidants</i> , 2024, 13, 205.	5.1	0
135	Milk casein hydrolysate peptides regulate starch digestion through inhibition of $\hat{\alpha}$ -glucosidase: An insight into the active oligopeptide screening, enzyme inhibition behaviors, and oligopeptide-enzyme binding interactions. <i>Food Hydrocolloids</i> , 2024, 152, 109926.	10.7	0
136	Challenges and opportunities in developing low glycemic index foods with white kidney bean $\hat{\alpha}$ -amylase inhibitor. <i>Trends in Food Science and Technology</i> , 2024, 147, 104397.	15.1	0