

Elizabeth Carvajal-Millan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9283818/publications.pdf>

Version: 2024-02-01

115
papers

2,925
citations

172386

29
h-index

197736

49
g-index

115
all docs

115
docs citations

115
times ranked

2691
citing authors

#	ARTICLE	IF	CITATIONS
1	Extraction and characterization of arabinoxylans obtained from nixtamalized brewersâ€™ spent grains. <i>Food Science and Technology International</i> , 2023, 29, 40-49.	1.1	2
2	Current challenging issues of biological macromolecules in biomedicine. , 2022, , 581-606.		1
3	<i>Artocarpus heterophyllus</i> Lam. leaf extracts added to pectin-based edible coating for <i>Alternaria</i> sp. control in tomato. <i>LWT - Food Science and Technology</i> , 2022, 156, 113022.	2.5	7
4	Malnutrition and Biomarkers: A Journey through Extracellular Vesicles. <i>Nutrients</i> , 2022, 14, 1002.	1.7	5
5	Fermentation of Ferulated Arabinoxylan Recovered from the Maize Bioethanol Industry. <i>Processes</i> , 2021, 9, 165.	1.3	3
6	Ferulated Pectins and Ferulated Arabinoxylans Mixed Gel for <i>Saccharomyces boulardii</i> Entrapment in Electrospayed Microbeads. <i>Molecules</i> , 2021, 26, 2478.	1.7	7
7	Highly cross-linked arabinoxylans microspheres as a microbiota-activated carrier for colon-specific insulin delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021, 163, 16-22.	2.0	9
8	Effect of part-baking time, freezing rate and storage time on part-baked bread quality. <i>Food Science and Technology</i> , 2021, 41, 352-359.	0.8	5
9	Polysaccharide-Based Nanoparticles for Colon-Targeted Drug Delivery Systems. <i>Polysaccharides</i> , 2021, 2, 626-647.	2.1	28
10	Conformational Behavior, Topographical Features, and Antioxidant Activity of Partly De-Esterified Arabinoxylans. <i>Polymers</i> , 2021, 13, 2794.	2.0	4
11	Ferulated Pectins from Sugar Beet Bioethanol Solids: Extraction, Macromolecular Characteristics, and Enzymatic Gelling Properties. <i>Sustainability</i> , 2021, 13, 10723.	1.6	3
12	Composition, Physicochemical Features, and Covalent Gelling Properties of Ferulated Pectin Extracted from Three Sugar Beet (<i>Beta vulgaris</i> L.) Cultivars Grown under Desertic Conditions. <i>Agronomy</i> , 2021, 11, 40.	1.3	11
13	Toward Understanding the Molecular Recognition of Fungal Chitin and Activation of the Plant Defense Mechanism in Horticultural Crops. <i>Molecules</i> , 2021, 26, 6513.	1.7	13
14	The underlying mechanisms for severe COVID-19 progression in people with diabetes mellitus: a critical review. <i>AIMS Public Health</i> , 2021, 8, 720-742.	1.1	6
15	Making Dense Covalent Arabinoxylan Gels with High Swelling Properties: A Strategy Based on Water Extraction through Osmotic Compression. <i>ACS Applied Polymer Materials</i> , 2021, 3, 6176-6185.	2.0	2
16	Covalently Cross-Linked Particles Based on Arabinoxylans: Antioxidant Activity and Cytotoxicity on a Human Colon Cell Line. <i>Biology and Life Sciences Forum</i> , 2021, 7, .	0.6	0
17	Alkali-Extracted Feruloylated Arabinoxylans from Nixtamalized Maize Bran Byproduct: A Synonymous with Soluble Antioxidant Dietary Fiber. <i>Waste and Biomass Valorization</i> , 2020, 11, 403-409.	1.8	27
18	Arabinoxylans and gelled arabinoxylans used as anti-obesogenic agents could protect the stability of intestinal microbiota of rats consuming high-fat diets. <i>International Journal of Food Sciences and Nutrition</i> , 2020, 71, 74-83.	1.3	12

#	ARTICLE	IF	CITATIONS
19	Stabilization of betalains by encapsulation—a review. <i>Journal of Food Science and Technology</i> , 2020, 57, 1587-1600.	1.4	43
20	Influence of carboxymethylation on the gelling capacity, rheological properties, and antioxidant activity of feruloylated arabinoxylans from different sources. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48325.	1.3	9
21	Biological and functional properties of peptide fractions obtained from collagen hydrolysate derived from mixed by-products of different fish species. <i>Food Chemistry</i> , 2020, 331, 127350.	4.2	73
22	Covalently Cross-Linked Nanoparticles Based on Ferulated Arabinoxylans Recovered from a Distiller's Dried Grains Byproduct. <i>Processes</i> , 2020, 8, 691.	1.3	12
23	Effect of Ultrasound-Treated Arabinoxylans on the Oxidative Stability of Soybean Oil. <i>Antioxidants</i> , 2020, 9, 147.	2.2	8
24	Effect of Ultrafiltration of Pitaya Extract (<i>Stenocereus thurberi</i>) on Its Phytochemical Content, Antioxidant Capacity, and UPLC-DAD-MS Profile. <i>Molecules</i> , 2020, 25, 281.	1.7	16
25	Tailor-made polysaccharide-based hydrogels for biomedical applications. , 2020, , 101-132.		2
26	Electrosprayed highly cross-linked arabinoxylan particles: effect of partly fermentation on the inhibition of Caco-2 cells proliferation. <i>AIMS Bioengineering</i> , 2020, 8, 52-70.	0.6	1
27	Polysaccharides nanoparticles as oral drug delivery systems. , 2019, , 399-417.		3
28	Arabinoxylan-Based Particles: In Vitro Antioxidant Capacity and Cytotoxicity on a Human Colon Cell Line. <i>Medicina (Lithuania)</i> , 2019, 55, 349.	0.8	18
29	Pectin in drug delivery applications. , 2019, , 249-262.		2
30	Preparation and Characterization of Quercetin-Loaded Zein Nanoparticles by Electrospraying and Study of <i>In Vitro</i> Bioavailability. <i>Journal of Food Science</i> , 2019, 84, 2883-2897.	1.5	72
31	Feruloylated Arabinoxylans from Nixtamalized Maize Bran Byproduct: A Functional Ingredient in Frankfurter Sausages. <i>Molecules</i> , 2019, 24, 2056.	1.7	12
32	Prolamins from cereal by-products: Classification, extraction, characterization and its applications in micro- and nanofabrication. <i>Trends in Food Science and Technology</i> , 2019, 90, 111-132.	7.8	53
33	Tailoring reversible insulin aggregates loaded in electrosprayed arabinoxylan microspheres intended for colon-targeted delivery. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47960.	1.3	9
34	Acemannan Gels and Aerogels. <i>Polymers</i> , 2019, 11, 330.	2.0	7
35	Nixtamalized Maize Flour By-product as a Source of Health-Promoting Ferulated Arabinoxylans (AX). , 2019, , 225-235.		0
36	Feruloylated Arabinoxylans from Maize Distiller's Dried Grains with Solubles: Effect of Feruloyl Esterase on their Macromolecular Characteristics, Gelling, and Antioxidant Properties. <i>Sustainability</i> , 2019, 11, 6449.	1.6	15

#	ARTICLE	IF	CITATIONS
37	Partial removal of protein associated with arabinoxylans: Impact on the viscoelasticity, crosslinking content, and microstructure of the gels formed. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47300.	1.3	22
38	Enzymatically cross-linked arabinoxylan microspheres as oral insulin delivery system. <i>International Journal of Biological Macromolecules</i> , 2019, 126, 952-959.	3.6	38
39	Enzymatic treatments as alternative to produce chitin fragments of low molecular weight from <i>Alternaria alternata</i> . <i>Journal of Applied Polymer Science</i> , 2019, 136, 47339.	1.3	12
40	Enzymatic cross-linking of ferulated arabinoxylan: effect of laccase or peroxidase catalysis on the gel characteristics. <i>Food Science and Biotechnology</i> , 2019, 28, 311-318.	1.2	21
41	PECTIN HYDROGELS PH STABILITY AS AFFECTED BY METHACRYLIC GRAFTING TO LOW METHOXY PECTIN STRUCTURE. <i>Revista Mexicana De Ingeniera Quimica</i> , 2019, 18, 531-542.	0.2	3
42	Partial Characterization of a Low-Molecular-Mass Fraction with Cryoprotectant Activity from Jumbo Squid (<i>Dosidicus gigas</i>) Mantle Muscle. <i>Food Technology and Biotechnology</i> , 2019, 57, 39-47.	0.9	2
43	Dynamic rheology and microstructure of starch gels affected by triticale genomic composition and developing stage. <i>International Agrophysics</i> , 2019, 33, 21-30.	0.7	0
44	Electrospray-assisted fabrication of core-shell arabinoxylan gel particles for insulin and probiotics entrapment. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46411.	1.3	34
45	Amaranth addition to enzymatically modified wheat flour improves dough functionality, bread immunoreactivity and quality. <i>Food and Function</i> , 2018, 9, 534-540.	2.1	16
46	Rheology and microstructure of gels based on wheat arabinoxylans enzymatically modified in arabinose to xylose ratio. <i>Journal of the Science of Food and Agriculture</i> , 2018, 98, 914-922.	1.7	19
47	Chemical characterization and antioxidant activity of sulfated polysaccharides from <i>Navicula</i> sp.. <i>Food Hydrocolloids</i> , 2018, 75, 229-236.	5.6	84
48	Analysis of rhamnogalacturonan I fragments as elicitors of the defense mechanism in tomato fruit. <i>Chilean Journal of Agricultural Research</i> , 2018, 78, 339-349.	0.4	6
49	Electrosprayed Core-Shell Composite Microbeads Based on Pectin-Arabinoxylans for Insulin Carrying: Aggregation and Size Dispersion Control. <i>Polymers</i> , 2018, 10, 108.	2.0	23
50	Production and characterization of supercritical CO ₂ dried chitosan nanoparticles as novel carrier device. <i>Carbohydrate Polymers</i> , 2018, 198, 556-562.	5.1	17
51	Polysaccharides in Alternative Methods for Insulin Delivery. , 2018, , 175-197.		3
52	Pectin and Pectin-Based Composite Materials: Beyond Food Texture. <i>Molecules</i> , 2018, 23, 942.	1.7	294
53	Ferulated Arabinoxylans and Their Gels: Functional Properties and Potential Application as Antioxidant and Anticancer Agent. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-22.	1.9	71
54	VISCOELASTIC CHARACTERISTICS OF PART-BAKED BREAD UNDER DIFFERENT PROCESS CONDITIONS. <i>Biotecnica</i> , 2018, 21, 68-78.	0.1	2

#	ARTICLE	IF	CITATIONS
55	Efecto prebiótico de los Arabinosilanos y los Arabinosilo-Oligosacáridos y su relación con la promoción de la buena salud. <i>CienciaUAT</i> , 2018, 13, 146.	0.3	5
56	Ferulated Arabinosylans and β -Glucans as Fat Replacers in Yoghurt and their Effects on Sensorial Properties. , 2018, , 61-70.		0
57	Comparison of Solubility of Corn Proteins in Propanol, Ethanol, and tert-Butyl Alcohol Solutions on the Tortilla Process Samples. <i>Cereal Chemistry</i> , 2017, 94, CCHEM-05-17-011.	1.1	0
58	Supercritical CO ₂ -dried chitosan nanoparticles: production and characterization. <i>RSC Advances</i> , 2017, 7, 30879-30885.	1.7	24
59	Control of blue mold decay on Persian lime: Application of covalently cross-linked arabinosylans bioactive coatings with antagonistic yeast entrapped. <i>LWT - Food Science and Technology</i> , 2017, 85, 187-196.	2.5	42
60	Aerogels from Chitosan Solutions in Ionic Liquids. <i>Polymers</i> , 2017, 9, 722.	2.0	27
61	Syneresis in Gels of Highly Ferulated Arabinosylans: Characterization of Covalent Cross-Linking, Rheology, and Microstructure. <i>Polymers</i> , 2017, 9, 164.	2.0	22
62	Gels of Ferulated Arabinosylans: Rheology, Structural Parameters and Microstructure. , 2017, , 208-221.		2
63	Navicula sp. Sulfated Polysaccharide Gels Induced by Fe(III): Rheology and Microstructure. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1238.	1.8	16
64	Maize Processing Waste Water Upcycling in Mexico: Recovery of Arabinosylans for Probiotic Encapsulation. <i>Sustainability</i> , 2016, 8, 1104.	1.6	20
65	Effect of freezing rate and storage on the rheological, thermal and structural properties of frozen wheat dough starch. <i>Starch/Staerke</i> , 2016, 68, 1103-1110.	1.1	20
66	Molecular characterization of water extractable arabinosylans isolated from wheat fine bran and their effect on dough viscosity. <i>LWT - Food Science and Technology</i> , 2016, 74, 484-492.	2.5	34
67	Starch Debranching Enzyme Activity and Its Effects on Some Starch Physicochemical Characteristics in Developing Substituted and Complete Triticales (<i>X Triticosecale</i> Wittmack). <i>Cereal Chemistry</i> , 2016, 93, 64-70.	1.1	11
68	Corn proteins solubility changes during extrusion and traditional nixtamalization for tortilla processing: A study using size exclusion chromatography. <i>Journal of Cereal Science</i> , 2016, 69, 351-357.	1.8	15
69	In vitro degradation of covalently cross-linked arabinosylan hydrogels by bifidobacteria. <i>Carbohydrate Polymers</i> , 2016, 144, 76-82.	5.1	49
70	Covalently Cross-Linked Arabinosylans Films for <i>Debaryomyces hansenii</i> Entrapment. <i>Molecules</i> , 2015, 20, 11373-11386.	1.7	30
71	Mechanical, thermal, and antioxidant properties of composite films prepared from durum wheat starch and lignin. <i>Starch/Staerke</i> , 2015, 67, 502-511.	1.1	34
72	Hydroxylslyl-pyridinoline occurrence and chemical characteristics of collagen present in jumbo squid (<i>Dosidicus gigas</i>) tissues. <i>Journal of Food Composition and Analysis</i> , 2015, 44, 10-17.	1.9	14

#	ARTICLE	IF	CITATIONS
73	Protein/Arabinosylans Gels: Effect of Mass Ratio on the Rheological, Microstructural and Diffusional Characteristics. International Journal of Molecular Sciences, 2014, 15, 19106-19118.	1.8	19
74	Effect of Freezing Rate and Storage Time on Gluten Protein Solubility, and Dough and Bread Properties. Journal of Food Process Engineering, 2014, 37, 237-247.	1.5	15
75	Entrapment of Probiotics in Water Extractable Arabinosylans Gels: Rheological and Microstructural Characterization. Molecules, 2014, 19, 3628-3637.	1.7	24
76	Antioxidant and Antimicrobial Activity of Commercial Propolis Extract in Beef Patties. Journal of Food Science, 2014, 79, C1499-504.	1.5	45
77	Antioxidant Activity of Maize Bran Arabinosylans Microspheres. , 2014, , 19-28.		3
78	EFFECT OF XYLANASE ON EXTRUDED NIXTAMALIZED CORN FLOUR AND TORTILLA: PHYSICO-CHEMICAL AND RHEOLOGICAL CHARACTERISTICS. Journal of Food Process Engineering, 2013, 36, 179-186.	1.5	12
79	Water Extractable Arabinosylans Aerogels Prepared by Supercritical CO ₂ Drying. Molecules, 2013, 18, 5531-5542.	1.7	20
80	Gels of ferulated arabinosylans extracted from nixtamalized and non-nixtamalized maize bran: rheological and structural characteristics. CYTA - Journal of Food, 2013, 11, 22-28.	0.9	27
81	Extruded nixtamalized corn flour for making tortilla: the effect of xylanase on the depolymerization of ferulated arabinosylans. CYTA - Journal of Food, 2013, 11, 84-89.	0.9	1
82	Arabinosylans Microspheres: Structural and Textural Characteristics. Molecules, 2013, 18, 4640-4650.	1.7	24
83	Characterization of Water Extractable Arabinosylans from a Spring Wheat Flour: Rheological Properties and Microstructure. Molecules, 2013, 18, 8417-8428.	1.7	47
84	Characterization of the Nutraceutical Quality and Antioxidant Activity in Bell Pepper in Response to Grafting. Molecules, 2013, 18, 15689-15703.	1.7	33
85	In vitro Evaluation of Arabinosylans Gels as an Oral Delivery System for Insulin. Materials Research Society Symposia Proceedings, 2012, 1487, 33.	0.1	4
86	Arabinosylans Gels as Lycopene Carriers: in vitro Degradation by Colonic Bacteria. Materials Research Society Symposia Proceedings, 2012, 1487, 26.	0.1	4
87	Lycopene/Arabinosylans Gels: Rheological and Controlled Release Characteristics. Molecules, 2012, 17, 2428-2436.	1.7	29
88	Pectin Extraction, Gelation, and Sources. , 2012, , 583-592.		0
89	Non-Starch Polysaccharides in Maize and Oat. , 2011, , 153-159.		3
90	The Peroxidase/H ₂ O ₂ System as a Free Radical-Generating Agent for Gelling Maize Bran Arabinosylans: Rheological and Structural Properties. Molecules, 2011, 16, 8410-8418.	1.7	22

#	ARTICLE	IF	CITATIONS
91	Enzymatic Cross-Linking of Alkali Extracted Arabinoxylans: Gel Rheological and Structural Characteristics. <i>International Journal of Molecular Sciences</i> , 2011, 12, 5853-5861.	1.8	28
92	Feruloylated arabinoxylans and arabinoxylan gels: structure, sources and applications. <i>Phytochemistry Reviews</i> , 2010, 9, 111-120.	3.1	111
93	Microcalorimetric measurement of <i>Trichoderma</i> spp. growth at different temperatures. <i>Thermochimica Acta</i> , 2010, 509, 40-45.	1.2	9
94	Component Analysis and Free Radicals Scavenging Activity of <i>Cicer arietinum</i> L. Husk Pectin. <i>Molecules</i> , 2010, 15, 6948-6955.	1.7	33
95	A Novel Pectin Material: Extraction, Characterization and Gelling Properties. <i>International Journal of Molecular Sciences</i> , 2010, 11, 3686-3695.	1.8	79
96	Maize Arabinoxylan Gels as Protein Delivery Matrices. <i>Molecules</i> , 2009, 14, 1475-1482.	1.7	44
97	<i>Trametes</i> sp. as a Source of Biopolymer Cross-Linking Agents: Laccase Induced Gelation of Ferulated Arabinoxylans. <i>Molecules</i> , 2009, 14, 4159-4165.	1.7	4
98	Pectin from low quality "Golden Delicious" apples: Composition and gelling capability. <i>Food Chemistry</i> , 2009, 116, 101-103.	4.2	63
99	Metabolic activity of low chilling grapevine buds forced to break. <i>Thermochimica Acta</i> , 2009, 481, 28-31.	1.2	18
100	Maize processing waste water arabinoxylans: Gelling capability and cross-linking content. <i>Food Chemistry</i> , 2009, 115, 1286-1290.	4.2	84
101	Maize bran/oat flour extruded breakfast cereal: A novel source of complex polysaccharides and an antioxidant. <i>Food Chemistry</i> , 2008, 111, 654-657.	4.2	43
102	Respiratory response of apple buds treated with budbreaking agents. <i>Thermochimica Acta</i> , 2007, 457, 109-112.	1.2	6
103	Maize bran gum: Extraction, characterization and functional properties. <i>Carbohydrate Polymers</i> , 2007, 69, 280-285.	5.1	108
104	Arabinoxylan/protein gels: Structural, rheological and controlled release properties. <i>Food Hydrocolloids</i> , 2006, 20, 53-61.	5.6	58
105	Impact of the structure of arabinoxylan gels on their rheological and protein transport properties. <i>Carbohydrate Polymers</i> , 2005, 60, 431-438.	5.1	55
106	Storage stability of laccase induced arabinoxylan gels. <i>Carbohydrate Polymers</i> , 2005, 59, 181-188.	5.1	89
107	Arabinoxylan Gels: Impact of the Feruloylation Degree on Their Structure and Properties. <i>Biomacromolecules</i> , 2005, 6, 309-317.	2.6	137
108	Arabinoxylan networks as affected by ovalbumin content. <i>Macromolecular Symposia</i> , 2003, 200, 129-136.	0.4	3

#	ARTICLE	IF	CITATIONS
109	Calorimetric assessment of microbial growth in milk as affected by different conditions. <i>Thermochimica Acta</i> , 2002, 394, 179-184.	1.2	14
110	Polyphenol Oxidase Activity, Color Changes, and Dehydration in Table Grape Rachis during Development and Storage As Affected by N-(2-Chloro-4-pyridyl)-N-phenylurea. <i>Journal of Agricultural and Food Chemistry</i> , 2001, 49, 946-951.	2.4	52
111	MICROCALORIMETRY: AN ACCURATE TOOL FOR EXPEDITE DETERMINATIONS OF PLANT TISSUE METABOLISM. <i>Acta Horticulturae</i> , 2001, , 79-85.	0.1	1
112	Effect of chilling on calorimetric responses of dormant vegetative apple buds. <i>Thermochimica Acta</i> , 2000, 349, 89-94.	1.2	11
113	Chilling injury in husk tomato leaves as defined by scanning calorimetry. <i>Thermochimica Acta</i> , 2000, 349, 125-129.	1.2	3
114	Low-Value Maize and Wheat By-Products as a Source of Ferulated Arabinoxylans. , 0, , .		4
115	Gelation of Arabinoxylans from Maize Wastewater " Effect of Alkaline Hydrolysis Conditions on the Gel Rheology and Microstructure. , 0, , .		4