

Carine Le Bourvellec

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8824983/publications.pdf>

Version: 2024-02-01

59
papers

3,817
citations

172207

29
h-index

128067

60
g-index

62
all docs

62
docs citations

62
times ranked

4020
citing authors

#	ARTICLE	IF	CITATIONS
1	Interactions between Polyphenols and Macromolecules: Quantification Methods and Mechanisms. <i>Critical Reviews in Food Science and Nutrition</i> , 2012, 52, 213-248.	5.4	601
2	Lab and pilot-scale ultrasound-assisted water extraction of polyphenols from apple pomace. <i>Journal of Food Engineering</i> , 2012, 111, 73-81.	2.7	262
3	Non-covalent interaction between procyanidins and apple cell wall material. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2004, 1672, 192-202.	1.1	202
4	Interactions between polyphenols and polysaccharides: Mechanisms and consequences in food processing and digestion. <i>Trends in Food Science and Technology</i> , 2017, 60, 43-51.	7.8	192
5	Towards the industrial production of antioxidants from food processing by-products with ultrasound-assisted extraction. <i>Ultrasonics Sonochemistry</i> , 2010, 17, 1066-1074.	3.8	187
6	Non-covalent interaction between procyanidins and apple cell wall material. Part III: Study on model polysaccharides. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1725, 10-18.	1.1	174
7	Interactions between cell wall polysaccharides and polyphenols: Effect of molecular internal structure. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2020, 19, 3574-3617.	5.9	114
8	Procyanidins are the most Abundant Polyphenols in Dessert Apples at Maturity. <i>LWT - Food Science and Technology</i> , 2002, 35, 289-291.	2.5	102
9	Interactions between apple (<i>Malus x domestica</i> Borkh.) polyphenols and cell walls modulate the extractability of polysaccharides. <i>Carbohydrate Polymers</i> , 2009, 75, 251-261.	5.1	100
10	Interactions between Pectic Compounds and Procyanidins are Influenced by Methylation Degree and Chain Length. <i>Biomacromolecules</i> , 2013, 14, 709-718.	2.6	97
11	Revisiting the contribution of ATR-FTIR spectroscopy to characterize plant cell wall polysaccharides. <i>Carbohydrate Polymers</i> , 2021, 262, 117935.	5.1	91
12	Inhibition of Apple Polyphenol Oxidase Activity by Procyanidins and Polyphenol Oxidation Products. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 122-130.	2.4	88
13	Non-covalent interaction between procyanidins and apple cell wall material. Part II: Quantification and impact of cell wall drying. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1725, 1-9.	1.1	86
14	ATR-FTIR spectroscopy to determine cell wall composition: Application on a large diversity of fruits and vegetables. <i>Carbohydrate Polymers</i> , 2019, 212, 186-196.	5.1	85
15	Seasonal variations of the phenolic constituents in bilberry (<i>Vaccinium myrtillus</i> L.) leaves, stems and fruits, and their antioxidant activity. <i>Food Chemistry</i> , 2016, 213, 58-68.	4.2	82
16	Neutral sugar side chains of pectins limit interactions with procyanidins. <i>Carbohydrate Polymers</i> , 2014, 99, 527-536.	5.1	75
17	Impact of Noncovalent Interactions between Apple Condensed Tannins and Cell Walls on Their Transfer from Fruit to Juice: Studies in Model Suspensions and Application. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 7896-7904.	2.4	68
18	Phenolic and polysaccharidic composition of applesauce is close to that of apple flesh. <i>Journal of Food Composition and Analysis</i> , 2011, 24, 537-547.	1.9	67

#	ARTICLE	IF	CITATIONS
19	Characterization of tissue specific differences in cell wall polysaccharides of ripe and overripe pear fruit. <i>Carbohydrate Polymers</i> , 2017, 156, 152-164.	5.1	66
20	Validation of a new method using the reactivity of electrogenerated superoxide radical in the antioxidant capacity determination of flavonoids. <i>Talanta</i> , 2008, 75, 1098-1103.	2.9	65
21	Characterization of microbial metabolism of Syrah grape products in an in vitro colon model using targeted and non-targeted analytical approaches. <i>European Journal of Nutrition</i> , 2013, 52, 833-846.	1.8	60
22	Impact of Processing on the Noncovalent Interactions between Procyanidin and Apple Cell Wall. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 9484-9494.	2.4	59
23	Characterization and quantification of fruit phenolic compounds of European and Tunisian pear cultivars. <i>Food Research International</i> , 2017, 95, 125-133.	2.9	56
24	Interactions of arabinan-rich pectic polysaccharides with polyphenols. <i>Carbohydrate Polymers</i> , 2020, 230, 115644.	5.1	56
25	Modulating polyphenolic composition and organoleptic properties of apple juices by manipulating the pressing conditions. <i>Food Chemistry</i> , 2011, 124, 117-125.	4.2	53
26	Effect of Sample Preparation on the Measurement of Sugars, Organic Acids, and Polyphenols in Apple Fruit by Mid-infrared Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 3551-3563.	2.4	53
27	Revisiting the chemistry of apple pomace polyphenols. <i>Food Chemistry</i> , 2019, 294, 9-18.	4.2	52
28	Procyanidin-Cell Wall Interactions within Apple Matrices Decrease the Metabolization of Procyanidins by the Human Gut Microbiota and the Anti-Inflammatory Effect of the Resulting Microbial Metabolome In Vitro. <i>Nutrients</i> , 2019, 11, 664.	1.7	42
29	Soil Photosynthetic Microbial Communities Mediate Aggregate Stability: Influence of Cropping Systems and Herbicide Use in an Agricultural Soil. <i>Frontiers in Microbiology</i> , 2019, 10, 1319.	1.5	34
30	Unraveling the pectinolytic function of <i>Bacteroides xylanisolvens</i> using a RNA-seq approach and mutagenesis. <i>BMC Genomics</i> , 2016, 17, 147.	1.2	33
31	Trends and challenges on fruit and vegetable processing: Insights into sustainable, traceable, precise, healthy, intelligent, personalized and local innovative food products. <i>Trends in Food Science and Technology</i> , 2022, 125, 12-25.	7.8	33
32	Exploring interactions between pectins and procyanidins: Structure-function relationships. <i>Food Hydrocolloids</i> , 2021, 113, 106498.	5.6	31
33	Impact of canning and storage on apricot carotenoids and polyphenols. <i>Food Chemistry</i> , 2018, 240, 615-625.	4.2	30
34	Nutritional Compounds in Figs from the Southern Mediterranean Region. <i>International Journal of Food Properties</i> , 2014, 17, 491-499.	1.3	29
35	Preharvest UV-C radiation impacts strawberry metabolite content and volatile organic compound production. <i>LWT - Food Science and Technology</i> , 2017, 85, 390-393.	2.5	28
36	Comparison of microcalorimetry and haze formation to quantify the association of B-type procyanidins to poly-l-proline and bovine serum albumin. <i>LWT - Food Science and Technology</i> , 2015, 63, 376-382.	2.5	26

#	ARTICLE	IF	CITATIONS
37	Impact of air-drying on polyphenol extractability from apple pomace. <i>Food Chemistry</i> , 2019, 296, 142-149.	4.2	26
38	Pink Discoloration of Canned Pears: Role of Procyanidin Chemical Depolymerization and Procyanidin/Cell Wall Interactions. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 6679-6692.	2.4	25
39	A method using near infrared hyperspectral imaging to highlight the internal quality of apple fruit slices. <i>Postharvest Biology and Technology</i> , 2021, 175, 111497.	2.9	24
40	Size-exclusion chromatography of procyanidins: Comparison between apple and grape procyanidins and application to the characterization of fractions of high degrees of polymerization. <i>Analytica Chimica Acta</i> , 2006, 563, 33-43.	2.6	23
41	Reactivity of flavanols: Their fate in physical food processing and recent advances in their analysis by depolymerization. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2021, 20, 4841-4880.	5.9	23
42	Cultivar and Year Rather than Agricultural Practices Affect Primary and Secondary Metabolites in Apple Fruit. <i>PLoS ONE</i> , 2015, 10, e0141916.	1.1	22
43	Effect of maturity on the phenolic compositions of pear juice and cell wall effects on procyanidins transfer. <i>LWT - Food Science and Technology</i> , 2017, 85, 380-384.	2.5	21
44	Comparison between microwave hydrodiffusion and pressing for plum juice extraction. <i>LWT - Food Science and Technology</i> , 2012, 49, 229-237.	2.5	20
45	Caprification modifies polyphenols but not cell wall concentrations in ripe figs. <i>Scientia Horticulturae</i> , 2013, 160, 115-122.	1.7	19
46	Effects of the apple matrix on the postprandial bioavailability of flavan-3-ols and nutrigenomic response of apple polyphenols in minipigs challenged with a high fat meal. <i>Food and Function</i> , 2020, 11, 5077-5090.	2.1	19
47	Pear ripeness and tissue type impact procyanidin-cell wall interactions. <i>Food Chemistry</i> , 2019, 275, 754-762.	4.2	18
48	Modification of apple, beet and kiwifruit cell walls by boiling in acid conditions: Common and specific responses. <i>Food Hydrocolloids</i> , 2021, 112, 106266.	5.6	14
49	Immobilization of flavan-3-ols onto sensor chips to study their interactions with proteins and pectins by SPR. <i>Applied Surface Science</i> , 2016, 371, 512-518.	3.1	13
50	Exopolysaccharides in the rhizosphere: A comparative study of extraction methods. Application to their quantification in Mediterranean soils. <i>Soil Biology and Biochemistry</i> , 2020, 149, 107961.	4.2	12
51	Changes in cell wall neutral sugar composition related to pectinolytic enzyme activities and intra-flesh textural property during ripening of ten apricot clones. <i>Food Chemistry</i> , 2021, 339, 128096.	4.2	11
52	Interactions between heterogeneous cell walls and two procyanidins: Insights from the effects of chemical composition and physical structure. <i>Food Hydrocolloids</i> , 2021, 121, 107018.	5.6	8
53	Experimental and theoretical investigation on interactions between xylose-containing hemicelluloses and procyanidins. <i>Carbohydrate Polymers</i> , 2022, 281, 119086.	5.1	8
54	Flavan-3-ols and procyanidins in grape seeds: biodiversity and relationships among wild and cultivated vines. <i>Euphytica</i> , 2017, 213, 1.	0.6	7

#	ARTICLE	IF	CITATIONS
55	Interactions Between Polyphenols and Macromolecules: Effect of Tannin Structure. , 2019, , 515-521.		7
56	Effect of storage conditions on "Deglet Nour" date palm fruit organoleptic and nutritional quality. LWT - Food Science and Technology, 2021, 137, 110343.	2.5	6
57	Iron-induced peroxidation of trilinolein nano-emulsions under model gastric conditions and its inhibition by dietary phenolic antioxidants. Food and Function, 2020, 11, 9144-9156.	2.1	3
58	Phenolic profiling in ten apricot clones using an efficient method (Thioacidolysis-UFLC) and determination of their antioxidant potential. Food Bioscience, 2022, 49, 101880.	2.0	2
59	Multiscale Localization of Procyanidins in Ripe and Overripe Perry Pears by Light and Transmission Electron Microscopy. Journal of Agricultural and Food Chemistry, 2020, 68, 8900-8906.	2.4	1