

Carine Le Bourvellec

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.

58
papers

2,772
citations

27
h-index

52
g-index

62
ext. papers

3,256
ext. citations

7.3
avg, IF

5.59
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 58 | Interactions between polyphenols and macromolecules: quantification methods and mechanisms. <i>Critical Reviews in Food Science and Nutrition</i> , 2012 , 52, 213-48 | 11.5 | 450 |
| 57 | Lab and pilot-scale ultrasound-assisted water extraction of polyphenols from apple pomace. <i>Journal of Food Engineering</i> , 2012 , 111, 73-81 | 6 | 217 |
| 56 | Non-covalent interaction between procyanidins and apple cell wall material: Part I. Effect of some environmental parameters. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2004 , 1672, 192-202 | 4 | 171 |
| 55 | Towards the industrial production of antioxidants from food processing by-products with ultrasound-assisted extraction. <i>Ultrasonics Sonochemistry</i> , 2010 , 17, 1066-74 | 8.9 | 160 |
| 54 | 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, 10-8 | 4 | 148 |
| 53 | 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 | 15.3 | 123 |
| 52 | 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 | 10.3 | 88 |
| 51 | Procyanidins are the most Abundant Polyphenols in Dessert Apples at Maturity. <i>LWT - Food Science and Technology</i> , 2002 , 35, 289-291 | 5.4 | 87 |
| 50 | Inhibition of apple polyphenol oxidase activity by procyanidins and polyphenol oxidation products. <i>Journal of Agricultural and Food Chemistry</i> , 2004 , 52, 122-30 | 5.7 | 84 |
| 49 | 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 | 4 | 75 |
| 48 | Interactions between pectic compounds and procyanidins are influenced by methylation degree and chain length. <i>Biomacromolecules</i> , 2013 , 14, 709-18 | 6.9 | 73 |
| 47 | 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, 7896-904 | 5.7 | 64 |
| 46 | 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 | 4.1 | 59 |
| 45 | Neutral sugar side chains of pectins limit interactions with procyanidins. <i>Carbohydrate Polymers</i> , 2014 , 99, 527-36 | 10.3 | 56 |
| 44 | 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 | 8.5 | 55 |
| 43 | 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, 833-46 | 5.2 | 54 |
| 42 | Validation of a new method using the reactivity of electrogenerated superoxide radical in the antioxidant capacity determination of flavonoids. <i>Talanta</i> , 2008 , 75, 1098-103 | 6.2 | 53 |

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| 41 | 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 | 16.4 | 47 |
| 40 | Impact of processing on the noncovalent interactions between procyanidin and apple cell wall. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 9484-94 | 5.7 | 46 |
| 39 | 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, 3551-63 | 5.7 | 44 |
| 38 | Modulating polyphenolic composition and organoleptic properties of apple juices by manipulating the pressing conditions. <i>Food Chemistry</i> , 2011 , 124, 117-125 | 8.5 | 43 |
| 37 | Characterization of tissue specific differences in cell wall polysaccharides of ripe and overripe pear fruit. <i>Carbohydrate Polymers</i> , 2017 , 156, 152-164 | 10.3 | 42 |
| 36 | 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 | 10.3 | 40 |
| 35 | Revisiting the chemistry of apple pomace polyphenols. <i>Food Chemistry</i> , 2019 , 294, 9-18 | 8.5 | 34 |
| 34 | Characterization and quantification of fruit phenolic compounds of European and Tunisian pear cultivars. <i>Food Research International</i> , 2017 , 95, 125-133 | 7 | 31 |
| 33 | Revisiting the contribution of ATR-FTIR spectroscopy to characterize plant cell wall polysaccharides. <i>Carbohydrate Polymers</i> , 2021 , 262, 117935 | 10.3 | 31 |
| 32 | 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, | 6.7 | 30 |
| 31 | Unraveling the pectinolytic function of <i>Bacteroides xyloxydans</i> using a RNA-seq approach and mutagenesis. <i>BMC Genomics</i> , 2016 , 17, 147 | 4.5 | 26 |
| 30 | 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 | 6.6 | 23 |
| 29 | 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, 6679-92 | 5.7 | 22 |
| 28 | Interactions of arabinan-rich pectic polysaccharides with polyphenols. <i>Carbohydrate Polymers</i> , 2020 , 230, 115644 | 10.3 | 22 |
| 27 | 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 | 5.4 | 21 |
| 26 | Nutritional Compounds in Figs from the Southern Mediterranean Region. <i>International Journal of Food Properties</i> , 2014 , 17, 491-499 | 3 | 21 |
| 25 | Impact of canning and storage on apricot carotenoids and polyphenols. <i>Food Chemistry</i> , 2018 , 240, 615-625 | 6.5 | 20 |
| 24 | Preharvest UV-C radiation impacts strawberry metabolite content and volatile organic compound production. <i>LWT - Food Science and Technology</i> , 2017 , 85, 390-393 | 5.4 | 20 |

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| 23 | 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 | 5.7 | 18 |
| 22 | Caprification modifies polyphenols but not cell wall concentrations in ripe figs. <i>Scientia Horticulturae</i> , 2013 , 160, 115-122 | 4.1 | 17 |
| 21 | Impact of air-drying on polyphenol extractability from apple pomace. <i>Food Chemistry</i> , 2019 , 296, 142-148 | 5.5 | 16 |
| 20 | Cultivar and Year Rather than Agricultural Practices Affect Primary and Secondary Metabolites in Apple Fruit. <i>PLoS ONE</i> , 2015 , 10, e0141916 | 3.7 | 16 |
| 19 | Comparison between microwave hydrodiffusion and pressing for plum juice extraction. <i>LWT - Food Science and Technology</i> , 2012 , 49, 229-237 | 5.4 | 16 |
| 18 | Pear ripeness and tissue type impact procyanidin-cell wall interactions. <i>Food Chemistry</i> , 2019 , 275, 754-762 | 5.5 | 15 |
| 17 | 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 | 5.4 | 13 |
| 16 | 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 | 6.1 | 11 |
| 15 | 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 | 6.7 | 11 |
| 14 | 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 | 16.4 | 10 |
| 13 | Exploring interactions between pectins and procyanidins: Structure-function relationships. <i>Food Hydrocolloids</i> , 2021 , 113, 106498 | 10.6 | 8 |
| 12 | Modification of apple, beet and kiwifruit cell walls by boiling in acid conditions: Common and specific responses. <i>Food Hydrocolloids</i> , 2021 , 112, 106266 | 10.6 | 8 |
| 11 | 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 | 6.2 | 7 |
| 10 | Flavan-3-ols and procyanidins in grape seeds: biodiversity and relationships among wild and cultivated vines. <i>Euphytica</i> , 2017 , 213, 1 | 2.1 | 6 |
| 9 | 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 | 7.5 | 5 |
| 8 | 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 | 8.5 | 3 |
| 7 | 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 | 15.3 | 3 |
| 6 | Interactions Between Polyphenols and Macromolecules: Effect of Tannin Structure 2019 , 515-521 | | 2 |

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| 5 | Iron-induced peroxidation of trilinolein nano-emulsions under model gastric conditions and its inhibition by dietary phenolic antioxidants. <i>Food and Function</i> , 2020 , 11, 9144-9156 | 6.1 | 1 |
| 4 | Multiscale Localization of Procyanidins in Ripe and Overripe Perry Pears by Light and Transmission Electron Microscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 8900-8906 | 5.7 | 1 |
| 3 | 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 | 10.6 | 1 |
| 2 | Experimental and theoretical investigation on interactions between xylose-containing hemicelluloses and procyanidins.. <i>Carbohydrate Polymers</i> , 2022 , 281, 119086 | 10.3 | 0 |
| 1 | Effect of storage conditions on Deglet Nour Date palm fruit organoleptic and nutritional quality. <i>LWT - Food Science and Technology</i> , 2021 , 137, 110343 | 5.4 | 0 |