

Rafael Llorach

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.

81
papers

5,989
citations

44
h-index

77
g-index

85
ext. papers

6,603
ext. citations

5.7
avg, IF

5.44
L-index

#	Paper	IF	Citations
81	Insights into the metabolism and microbial biotransformation of dietary flavan-3-ols and the bioactivity of their metabolites. <i>Food and Function</i> , 2010 , 1, 233-53	6.1	436
80	Characterisation of polyphenols and antioxidant properties of five lettuce varieties and escarole. <i>Food Chemistry</i> , 2008 , 108, 1028-38	8.5	358
79	Evaluation of the bioavailability and metabolism in the rat of punicalagin, an antioxidant polyphenol from pomegranate juice. <i>European Journal of Nutrition</i> , 2003 , 42, 18-28	5.2	265
78	Polyphenols and human health: a prospectus. <i>Critical Reviews in Food Science and Nutrition</i> , 2011 , 51, 524-46	11.5	241
77	Characterization of the interglycosidic linkage in di-, tri-, tetra- and pentaglycosylated flavonoids and differentiation of positional isomers by liquid chromatography/electrospray ionization tandem mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2004 , 39, 312-21	2.2	223
76	Artichoke (<i>Cynara scolymus</i> L.) byproducts as a potential source of health-promoting antioxidant phenolics. <i>Journal of Agricultural and Food Chemistry</i> , 2002 , 50, 3458-64	5.7	188
75	The complex links between dietary phytochemicals and human health deciphered by metabolomics. <i>Molecular Nutrition and Food Research</i> , 2009 , 53, 1303-15	5.9	167
74	Effect of cocoa powder on the modulation of inflammatory biomarkers in patients at high risk of cardiovascular disease. <i>American Journal of Clinical Nutrition</i> , 2009 , 90, 1144-50	7	163
73	Virgin olive oil and nuts as key foods of the Mediterranean diet effects on inflammatory biomarkers related to atherosclerosis. <i>Pharmacological Research</i> , 2012 , 65, 577-83	10.2	151
72	Targeted metabolic profiling of phenolics in urine and plasma after regular consumption of cocoa by liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2009 , 1216, 7258-67	4.5	142
71	Effects of red wine polyphenols and alcohol on glucose metabolism and the lipid profile: a randomized clinical trial. <i>Clinical Nutrition</i> , 2013 , 32, 200-6	5.9	135
70	An LC-MS-based metabolomics approach for exploring urinary metabolome modifications after cocoa consumption. <i>Journal of Proteome Research</i> , 2009 , 8, 5060-8	5.6	129
69	HPLC-DAD-MS/MS ESI characterization of unusual highly glycosylated acylated flavonoids from cauliflower (<i>Brassica oleracea</i> L. var. botrytis) agroindustrial byproducts. <i>Journal of Agricultural and Food Chemistry</i> , 2003 , 51, 3895-9	5.7	128
68	Lettuce and chicory byproducts as a source of antioxidant phenolic extracts. <i>Journal of Agricultural and Food Chemistry</i> , 2004 , 52, 5109-16	5.7	127
67	Differential effects of polyphenols and alcohol of red wine on the expression of adhesion molecules and inflammatory cytokines related to atherosclerosis: a randomized clinical trial. <i>American Journal of Clinical Nutrition</i> , 2012 , 95, 326-34	7	126
66	Understanding local Mediterranean diets: a multidisciplinary pharmacological and ethnobotanical approach. <i>Pharmacological Research</i> , 2005 , 52, 353-66	10.2	119
65	Phenyl-Valerolactones and phenylvaleric acids, the main colonic metabolites of flavan-3-ols: synthesis, analysis, bioavailability, and bioactivity. <i>Natural Product Reports</i> , 2019 , 36, 714-752	15.1	114

64	Nutrimetabolomics: An Integrative Action for Metabolomic Analyses in Human Nutritional Studies. <i>Molecular Nutrition and Food Research</i> , 2019 , 63, e1800384	5.9	107
63	Phenol-Explorer 2.0: a major update of the Phenol-Explorer database integrating data on polyphenol metabolism and pharmacokinetics in humans and experimental animals. <i>Database: the Journal of Biological Databases and Curation</i> , 2012 , 2012, bas031	5	105
62	Valorization of cauliflower (<i>Brassica oleracea</i> L. var. botrytis) by-products as a source of antioxidant phenolics. <i>Journal of Agricultural and Food Chemistry</i> , 2003 , 51, 2181-7	5.7	105
61	Comparative analysis of sample preparation methods to handle the complexity of the blood fluid metabolome: when less is more. <i>Analytical Chemistry</i> , 2013 , 85, 341-8	7.8	104
60	Dealcoholized red wine decreases systolic and diastolic blood pressure and increases plasma nitric oxide: short communication. <i>Circulation Research</i> , 2012 , 111, 1065-8	15.7	98
59	Metabolomics study of human urinary metabolome modifications after intake of almond (<i>Prunus dulcis</i> (Mill.) D.A. Webb) skin polyphenols. <i>Journal of Proteome Research</i> , 2010 , 9, 5859-67	5.6	94
58	Metabolomics unveils urinary changes in subjects with metabolic syndrome following 12-week nut consumption. <i>Journal of Proteome Research</i> , 2011 , 10, 5047-58	5.6	88
57	Cocoa polyphenols and inflammatory markers of cardiovascular disease. <i>Nutrients</i> , 2014 , 6, 844-80	6.7	82
56	Mediterranean diet and non enzymatic antioxidant capacity in the PREDIMED study: evidence for a mechanism of antioxidant tuning. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2013 , 23, 1167-74	4.5	80
55	Phenolic compounds in external leaves of tronchuda cabbage (<i>Brassica oleracea</i> L. var. costata DC). <i>Journal of Agricultural and Food Chemistry</i> , 2005 , 53, 2901-7	5.7	77
54	Metabolomic pattern analysis after mediterranean diet intervention in a nondiabetic population: a 1- and 3-year follow-up in the PREDIMED study. <i>Journal of Proteome Research</i> , 2015 , 14, 531-40	5.6	76
53	Nutrimetabolomic strategies to develop new biomarkers of intake and health effects. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 8797-808	5.7	76
52	The Mediterranean diet pattern and its main components are associated with lower plasma concentrations of tumor necrosis factor receptor 60 in patients at high risk for cardiovascular disease. <i>Journal of Nutrition</i> , 2012 , 142, 1019-25	4.1	72
51	Whole-grain and refined wheat flours show distinct metabolic profiles in rats as assessed by a 1H NMR-based metabonomic approach. <i>Journal of Nutrition</i> , 2007 , 137, 923-9	4.1	71
50	Controlled atmosphere preserves quality and phytonutrients in wild rocket (<i>Diplotaxis tenuifolia</i>). <i>Postharvest Biology and Technology</i> , 2006 , 40, 26-33	6.2	70
49	A liquid chromatography-quadrupole time-of-flight (LC-QTOF)-based metabolomic approach reveals new metabolic effects of catechin in rats fed high-fat diets. <i>Journal of Proteome Research</i> , 2008 , 7, 2388-98	5.6	62
48	An R package to analyse LC/MS metabolomic data: MAIT (Metabolite Automatic Identification Toolkit). <i>Bioinformatics</i> , 2014 , 30, 1937-9	7.2	55
47	Comparison of 24-h volume and creatinine-corrected total urinary polyphenol as a biomarker of total dietary polyphenols in the Invecchiare InCHIANTI study. <i>Analytica Chimica Acta</i> , 2011 , 704, 110-5	6.6	54

46	Soy isoflavones and cardiovascular disease epidemiological, clinical and -omics perspectives. <i>Current Pharmaceutical Biotechnology</i> , 2012 , 13, 624-31	2.6	54
45	Systematic analysis of the polyphenol metabolome using the Phenol-Explorer database. <i>Molecular Nutrition and Food Research</i> , 2016 , 60, 203-11	5.9	53
44	Effect of milk on the urinary excretion of microbial phenolic acids after cocoa powder consumption in humans. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 4706-11	5.7	53
43	Identification of new flavonoid glycosides and flavonoid profiles to characterize rocket leafy salads (<i>Eruca vesicaria</i> and <i>Diplotaxis tenuifolia</i>). <i>Journal of Agricultural and Food Chemistry</i> , 2007 , 55, 1356-63	5.7	53
42	Metabolomics provide new insight on the metabolism of dietary phytochemicals in rats. <i>Journal of Nutrition</i> , 2008 , 138, 1282-7	4.1	52
41	(1)H-NMR-based metabolomic analysis of the effect of moderate wine consumption on subjects with cardiovascular risk factors. <i>Electrophoresis</i> , 2012 , 33, 2345-54	3.6	50
40	Gut and microbial resveratrol metabolite profiling after moderate long-term consumption of red wine versus dealcoholized red wine in humans by an optimized ultra-high-pressure liquid chromatography tandem mass spectrometry method. <i>Journal of Chromatography A</i> , 2012 , 1265, 105-13	4.5	47
39	Methodological aspects for metabolome visualization and characterization: a metabolomic evaluation of the 24 h evolution of human urine after cocoa powder consumption. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010 , 51, 373-81	3.5	47
38	Intensity drift removal in LC/MS metabolomics by common variance compensation. <i>Bioinformatics</i> , 2014 , 30, 2899-905	7.2	46
37	Clinical phenotype clustering in cardiovascular risk patients for the identification of responsive metabolotypes after red wine polyphenol intake. <i>Journal of Nutritional Biochemistry</i> , 2016 , 28, 114-20	6.3	44
36	Novel multimetabolite prediction of walnut consumption by a urinary biomarker model in a free-living population: the PREDIMED study. <i>Journal of Proteome Research</i> , 2014 , 13, 3476-83	5.6	44
35	Metabolomic fingerprint in patients at high risk of cardiovascular disease by cocoa intervention. <i>Molecular Nutrition and Food Research</i> , 2013 , 57, 962-73	5.9	43
34	A metabolomics-driven approach to predict cocoa product consumption by designing a multimetabolite biomarker model in free-living subjects from the PREDIMED study. <i>Molecular Nutrition and Food Research</i> , 2015 , 59, 212-20	5.9	41
33	"Zahraa", a Unani multicomponent herbal tea widely consumed in Syria: components of drug mixtures and alleged medicinal properties. <i>Journal of Ethnopharmacology</i> , 2005 , 102, 344-50	5	41
32	Increase of Antioxidant Activity of Tomato Juice Upon Functionalisation with Vegetable Byproduct Extracts. <i>LWT - Food Science and Technology</i> , 2002 , 35, 532-542	5.4	40
31	Determination of resveratrol and piceid in beer matrices by solid-phase extraction and liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2011 , 1218, 698-705	4.5	39
30	Almond (<i>Prunus dulcis</i> (Mill.) D.A. Webb) polyphenols: from chemical characterization to targeted analysis of phenolic metabolites in humans. <i>Archives of Biochemistry and Biophysics</i> , 2010 , 501, 124-33	4.1	36
29	Application of dietary phenolic biomarkers in epidemiology: past, present, and future. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 6648-57	5.7	34

28	Characterisation of the phenolic profile of <i>Boerhaavia diffusa</i> L. by HPLC-PAD-MS/MS as a tool for quality control. <i>Phytochemical Analysis</i> , 2005 , 16, 451-8	3.4	34
27	Nutrimetabolomics fingerprinting to identify biomarkers of bread exposure in a free-living population from the PREDIMED study cohort. <i>Metabolomics</i> , 2015 , 11, 155-165	4.7	33
26	Non-targeted metabolomic biomarkers and metabotypes of type 2 diabetes: A cross-sectional study of PREDIMED trial participants. <i>Diabetes and Metabolism</i> , 2019 , 45, 167-174	5.4	33
25	Food intake biomarkers for apple, pear, and stone fruit. <i>Genes and Nutrition</i> , 2018 , 13, 29	4.3	32
24	New and vintage solutions to enhance the plasma metabolome coverage by LC-ESI-MS untargeted metabolomics: the not-so-simple process of method performance evaluation. <i>Analytical Chemistry</i> , 2015 , 87, 2639-47	7.8	31
23	Distribution of epicatechin metabolites in lymphoid tissues and testes of young rats with a cocoa-enriched diet. <i>British Journal of Nutrition</i> , 2010 , 103, 1393-7	3.6	29
22	Urinary metabolomic fingerprinting after consumption of a probiotic strain in women with mastitis. <i>Pharmacological Research</i> , 2014 , 87, 160-5	10.2	25
21	Novel strategies for improving dietary exposure assessment: Multiple-data fusion is a more accurate measure than the traditional single-biomarker approach. <i>Trends in Food Science and Technology</i> , 2017 , 69, 220-229	15.3	24
20	Comparative metabolite fingerprinting of legumes using LC-MS-based untargeted metabolomics. <i>Food Research International</i> , 2019 , 126, 108666	7	23
19	Metabolic fingerprint after acute and under sustained consumption of a functional beverage based on grape skin extract in healthy human subjects. <i>Food and Function</i> , 2015 , 6, 1288-98	6.1	22
18	Hypochlorous acid scavenging properties of local Mediterranean plant foods. <i>Lipids</i> , 2004 , 39, 1239-47	1.6	22
17	An NMR metabolomics approach reveals a combined-biomarkers model in a wine interventional trial with validation in free-living individuals of the PREDIMED study. <i>Metabolomics</i> , 2015 , 11, 797-806	4.7	21
16	Targeted analysis of conjugated and microbial-derived phenolic metabolites in human urine after consumption of an almond skin phenolic extract. <i>Journal of Nutrition</i> , 2010 , 140, 1799-807	4.1	20
15	Biomarkers of cereal food intake. <i>Genes and Nutrition</i> , 2019 , 14, 28	4.3	19
14	Discovery of human urinary biomarkers of aronia-citrus juice intake by HPLC-q-TOF-based metabolomic approach. <i>Electrophoresis</i> , 2014 , 35, 1599-606	3.6	18
13	Microbial metabolites are associated with a high adherence to a Mediterranean dietary pattern using a H-NMR-based untargeted metabolomics approach. <i>Journal of Nutritional Biochemistry</i> , 2017 , 48, 36-43	6.3	17
12	Interlaboratory Coverage Test on Plant Food Bioactive Compounds and their Metabolites by Mass Spectrometry-Based Untargeted Metabolomics. <i>Metabolites</i> , 2018 , 8,	5.6	17
11	Functionalisation of commercial chicken soup with enriched polyphenol extract from vegetable by-products. <i>European Food Research and Technology</i> , 2005 , 220, 31-36	3.4	17

10	Urinary H Nuclear Magnetic Resonance Metabolomic Fingerprinting Reveals Biomarkers of Pulse Consumption Related to Energy-Metabolism Modulation in a Subcohort from the PREDIMED study. <i>Journal of Proteome Research</i> , 2017 , 16, 1483-1491	5.6	12
9	Peak aggregation as an innovative strategy for improving the predictive power of LC-MS metabolomic profiles. <i>Analytical Chemistry</i> , 2014 , 86, 2320-5	7.8	8
8	Phenolic Compounds: Chemistry and Occurrence in Fruits and Vegetables 53-88		6
7	Phytochemicals in Legumes: A Qualitative Reviewed Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 13486-13496	5.7	6
6	The 3-Year Effect of the Mediterranean Diet Intervention on Inflammatory Biomarkers Related to Cardiovascular Disease. <i>Biomedicines</i> , 2021 , 9,	4.8	3
5	Contribution of Bioactive Foods and Their Emerging Role in Immunomodulation, Inflammation, and Arthritis 2013 , 43-65		2
4	Resveratrol and Bioactive Flavonoids in Immune Function 2010 , 397-420		2
3	Systematics of the high mountain taxa of the genus <i>Sideritis</i> L. section <i>Sideritis</i> , subsection <i>Fruticulosae</i> Obř & D. Rivera (Lamiaceae). <i>Botanical Journal of the Linnean Society</i> , 1999 , 129, 249-265	2.2	1
2	Metabolomic Approaches in the Study of Wine Benefits in Human Health 2016 , 293-317		0
1	Emerging Applications of Metabolomics to Polyphenols and CVD Biomarker Discovery 2014 , 1025-1044		