

# Rafael Llorach

## List of Publications by Year in descending order

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82  
papers

7,213  
citations

46918

47  
h-index

64668

79  
g-index

85  
all docs

85  
docs citations

85  
times ranked

10186  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.1	515
2	Characterisation of polyphenols and antioxidant properties of five lettuce varieties and escarole. <i>Food Chemistry</i> , 2008, 108, 1028-1038.	4.2	427
3	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.	1.8	309
4	Polyphenols and Human Health: A Prospectus. <i>Critical Reviews in Food Science and Nutrition</i> , 2011, 51, 524-546.	5.4	286
5	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, 312-321.	0.7	246
6	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, 3458-3464.	2.4	219
7	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, 577-583.	3.1	190
8	The complex links between dietary phytochemicals and human health deciphered by metabolomics. <i>Molecular Nutrition and Food Research</i> , 2009, 53, 1303-1315.	1.5	187
9	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, 1144-1150.	2.2	183
10	Effects of red wine polyphenols and alcohol on glucose metabolism and the lipid profile: A randomized clinical trial. <i>Clinical Nutrition</i> , 2013, 32, 200-206.	2.3	178
11	Nutrimetabolomics: An Integrative Action for Metabolomic Analyses in Human Nutritional Studies. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1800384.	1.5	173
12	Phenyl- $\delta^3$ -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.	5.2	170
13	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, 7258-7267.	1.8	160
14	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, 326-334.	2.2	157
15	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, 3895-3899.	2.4	146
16	Lettuce and Chicory Byproducts as a Source of Antioxidant Phenolic Extracts. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 5109-5116.	2.4	145
17	An LC-MS-Based Metabolomics Approach for Exploring Urinary Metabolome Modifications after Cocoa Consumption. <i>Journal of Proteome Research</i> , 2009, 8, 5060-5068.	1.8	139
18	Understanding local Mediterranean diets: A multidisciplinary pharmacological and ethnobotanical approach. <i>Pharmacological Research</i> , 2005, 52, 353-366.	3.1	137

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19	Phenol-Explorer 2.0: a major update of the Phenol-Explorer database integrating data on polyphenol metabolism and pharmacokinetics in humans and experimental animals. Database: the Journal of Biological Databases and Curation, 2012, 2012, bas031-bas031.	1.4	135
20	Comparative Analysis of Sample Preparation Methods To Handle the Complexity of the Blood Fluid Metabolome: When Less Is More. Analytical Chemistry, 2013, 85, 341-348.	3.2	120
21	Valorization of Cauliflower ( <i>Brassica oleracea</i> L. var. botrytis) By-Products as a Source of Antioxidant Phenolics. Journal of Agricultural and Food Chemistry, 2003, 51, 2181-2187.	2.4	118
22	Dealcoholized Red Wine Decreases Systolic and Diastolic Blood Pressure and Increases Plasma Nitric Oxide. Circulation Research, 2012, 111, 1065-1068.	2.0	117
23	Metabolomics Study of Human Urinary Metabolome Modifications After Intake of Almond ( <i>Prunus</i> ) Tj ETQq1 1 0.784314 ggBT /Ov	1.8	103
24	Cocoa Polyphenols and Inflammatory Markers of Cardiovascular Disease. Nutrients, 2014, 6, 844-880.	1.7	102
25	Metabolomic Pattern Analysis after Mediterranean Diet Intervention in a Nondiabetic Population: A 1- and 3-Year Follow-up in the PREDIMED Study. Journal of Proteome Research, 2015, 14, 531-540.	1.8	101
26	Metabolomics Unveils Urinary Changes in Subjects with Metabolic Syndrome following 12-Week Nut Consumption. Journal of Proteome Research, 2011, 10, 5047-5058.	1.8	99
27	Controlled atmosphere preserves quality and phytonutrients in wild rocket ( <i>Diplotaxis tenuifolia</i> ). Postharvest Biology and Technology, 2006, 40, 26-33.	2.9	91
28	Mediterranean diet and non enzymatic antioxidant capacity in the PREDIMED study: Evidence for a mechanism of antioxidant tuning. Nutrition, Metabolism and Cardiovascular Diseases, 2013, 23, 1167-1174.	1.1	90
29	Phenolic Compounds in External Leaves of Tronchuda Cabbage ( <i>Brassica oleracea</i> L. var. costata DC). Journal of Agricultural and Food Chemistry, 2005, 53, 2901-2907.	2.4	88
30	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. Journal of Nutrition, 2012, 142, 1019-1025.	1.3	86
31	Nutrimetabolomic Strategies To Develop New Biomarkers of Intake and Health Effects. Journal of Agricultural and Food Chemistry, 2012, 60, 8797-8808.	2.4	84
32	Whole-Grain and Refined Wheat Flours Show Distinct Metabolic Profiles in Rats as Assessed by a 1H NMR-Based Metabonomic Approach. Journal of Nutrition, 2007, 137, 923-929.	1.3	74
33	Soy Isoflavones and Cardiovascular Disease Epidemiological, Clinical and -Omics Perspectives. Current Pharmaceutical Biotechnology, 2012, 13, 624-631.	0.9	71
34	Systematic analysis of the polyphenol metabolome using the Phenol-Explorer database. Molecular Nutrition and Food Research, 2016, 60, 203-211.	1.5	67
35	A Liquid Chromatography-Quadrupole Time-of-Flight (LC-QTOF)-based Metabolomic Approach Reveals New Metabolic Effects of Catechin in Rats Fed High-Fat Diets. Journal of Proteome Research, 2008, 7, 2388-2398.	1.8	66
36	Identification of New Flavonoid Glycosides and Flavonoid Profiles To Characterize Rocket Leafy Salads ( <i>Eruca vesicaria</i> and <i>Diplotaxis tenuifolia</i> ). Journal of Agricultural and Food Chemistry, 2007, 55, 1356-1363.	2.4	64

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37	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, 110-115.	2.6	63
38	Metabolomics Provide New Insight on the Metabolism of Dietary Phytochemicals in Rats. <i>Journal of Nutrition</i> , 2008, 138, 1282-1287.	1.3	62
39	An R package to analyse LC/MS metabolomic data: MAIT (Metabolite Automatic Identification Toolkit). <i>Bioinformatics</i> , 2014, 30, 1937-1939.	1.8	62
40	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, 4706-4711.	2.4	59
41	Non-targeted metabolomic biomarkers and metabolotypes of type 2 diabetes: A cross-sectional study of PREDIMED trial participants. <i>Diabetes and Metabolism</i> , 2019, 45, 167-174.	1.4	58
42	<sup>1</sup> H- <sup>13</sup> C-NMR based metabolomic analysis of the effect of moderate wine consumption on subjects with cardiovascular risk factors. <i>Electrophoresis</i> , 2012, 33, 2345-2354.	1.3	56
43	Intensity drift removal in LC/MS metabolomics by common variance compensation. <i>Bioinformatics</i> , 2014, 30, 2899-2905.	1.8	56
44	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.	1.8	53
45	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, 114-120.	1.9	53
46	Methodological aspects for metabolome visualization and characterization. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 51, 373-381.	1.4	52
47	Food intake biomarkers for apple, pear, and stone fruit. <i>Genes and Nutrition</i> , 2018, 13, 29.	1.2	51
48	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, 105-113.	1.8	50
49	Increase of Antioxidant Activity of Tomato Juice Upon Functionalisation with Vegetable Byproduct Extracts. <i>LWT - Food Science and Technology</i> , 2002, 35, 532-542.	2.5	47
50	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, 3476-3483.	1.8	47
51	“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, 344-350.	2.0	46
52	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, 124-133.	1.4	45
53	Metabolomic fingerprint in patients at high risk of cardiovascular disease by cocoa intervention. <i>Molecular Nutrition and Food Research</i> , 2013, 57, 962-973.	1.5	44
54	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, 212-220.	1.5	44

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55	Biomarkers of cereal food intake. <i>Genes and Nutrition</i> , 2019, 14, 28.	1.2	43
56	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, 451-458.	1.2	42
57	Application of Dietary Phenolic Biomarkers in Epidemiology: Past, Present, and Future. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 6648-6657.	2.4	40
58	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, 2639-2647.	3.2	39
59	Comparative metabolite fingerprinting of legumes using LC-MS-based untargeted metabolomics. <i>Food Research International</i> , 2019, 126, 108666.	2.9	38
60	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.	1.4	37
61	Urinary metabolomic fingerprinting after consumption of a probiotic strain in women with mastitis. <i>Pharmacological Research</i> , 2014, 87, 160-165.	3.1	35
62	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, 1393-1397.	1.2	32
63	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.	7.8	32
64	Microbial metabolites are associated with a high adherence to a Mediterranean dietary pattern using a 1H-NMR-based untargeted metabolomics approach. <i>Journal of Nutritional Biochemistry</i> , 2017, 48, 36-43.	1.9	32
65	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, 1799-1807.	1.3	29
66	Hypochlorous acid scavenging properties of local mediterranean plant foods. <i>Lipids</i> , 2004, 39, 1239-1247.	0.7	25
67	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.	1.4	23
68	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, 1288-1298.	2.1	23
69	Functionalisation of commercial chicken soup with enriched polyphenol extract from vegetable by-products. <i>European Food Research and Technology</i> , 2005, 220, 31-36.	1.6	21
70	Discovery of human urinary biomarkers of aronia-citrus juice intake by HPLC-TOF-based metabolomic approach. <i>Electrophoresis</i> , 2014, 35, 1599-1606.	1.3	21
71	Interlaboratory Coverage Test on Plant Food Bioactive Compounds and their Metabolites by Mass Spectrometry-Based Untargeted Metabolomics. <i>Metabolites</i> , 2018, 8, 46.	1.3	20
72	Phytochemicals in Legumes: A Qualitative Reviewed Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 13486-13496.	2.4	20

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73	Urinary <sup>1</sup> 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.	1.8	15
74	The 3-Year Effect of the Mediterranean Diet Intervention on Inflammatory Biomarkers Related to Cardiovascular Disease. <i>Biomedicines</i> , 2021, 9, 862.	1.4	11
75	Peak Aggregation as an Innovative Strategy for Improving the Predictive Power of LC-MS Metabolomic Profiles. <i>Analytical Chemistry</i> , 2014, 86, 2320-2325.	3.2	9
76	Contribution of Bioactive Foods and Their Emerging Role in Immunomodulation, Inflammation, and Arthritis. , 2013, , 43-65.		5
77	New Frontiers on the Metabolism, Bioavailability and Health Effects of Phenolic Compounds. <i>Molecules</i> , 2017, 22, 151.	1.7	5
78	Resveratrol and Bioactive Flavonoids in Immune Function. , 2010, , 397-420.		2
79	Systematics of the high mountain taxa of the genus <i>Sideritis</i> L. section <i>Sideritis</i> , subsection <i>Fruticulosae</i> Ob <sup>3</sup> n & D. Rivera (Lamiaceae). <i>Botanical Journal of the Linnean Society</i> , 1999, 129, 249-265.	0.8	1
80	Metabolomic Approaches in the Study of Wine Benefits in Human Health. , 2016, , 293-317.		1
81	Emerging Applications of Metabolomics to Polyphenols and CVD Biomarker Discovery. , 2014, , 1025-1044.		0
82	DEVELOPMENT AND IMPLEMENTATION OF E-PORTFOLIOS FOR STUDENTS IN NUTRITION AND DIETETICS DEGREE DURING THEIR PRACTICUM. <i>EDULEARN Proceedings</i> , 2016, , .	0.0	0