

# Maria Vinaixa

## List of Publications by Citations

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61  
papers

2,108  
citations

26  
h-index

45  
g-index

69  
ext. papers

2,570  
ext. citations

6.7  
avg, IF

4.5  
L-index

#	Paper	IF	Citations
61	Mass spectral databases for LC/MS- and GC/MS-based metabolomics: State of the field and future prospects. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2016</b> , 78, 23-35	14.6	295
60	A Guideline to Univariate Statistical Analysis for LC/MS-Based Untargeted Metabolomics-Derived Data. <i>Metabolites</i> , <b>2012</b> , 2, 775-95	5.6	167
59	Metabolomic assessment of the effect of dietary cholesterol in the progressive development of fatty liver disease. <i>Journal of Proteome Research</i> , <b>2010</b> , 9, 2527-38	5.6	107
58	An automated Design-Build-Test-Learn pipeline for enhanced microbial production of fine chemicals. <i>Communications Biology</i> , <b>2018</b> , 1, 66	6.7	97
57	Liposcale: a novel advanced lipoprotein test based on 2D diffusion-ordered 1H NMR spectroscopy. <i>Journal of Lipid Research</i> , <b>2015</b> , 56, 737-746	6.3	90
56	Metabolic heterogeneity in polycystic ovary syndrome is determined by obesity: plasma metabolomic approach using GC-MS. <i>Clinical Chemistry</i> , <b>2012</b> , 58, 999-1009	5.5	72
55	Assessment of compatibility between extraction methods for NMR- and LC/MS-based metabolomics. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 5838-44	7.8	69
54	eRah: A Computational Tool Integrating Spectral Deconvolution and Alignment with Quantification and Identification of Metabolites in GC/MS-Based Metabolomics. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 9821-9829	7.8	68
53	Urine metabolome profiling of immune-mediated inflammatory diseases. <i>BMC Medicine</i> , <b>2016</b> , 14, 133	11.4	67
52	Building of a metal oxide gas sensor-based electronic nose to assess the freshness of sardines under cold storage. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 128, 235-244	8.5	63
51	Metabolomics approach for analyzing the effects of exercise in subjects with type 1 diabetes mellitus. <i>PLoS ONE</i> , <b>2012</b> , 7, e40600	3.7	54
50	Machine Learning of Designed Translational Control Allows Predictive Pathway Optimization in Escherichia coli. <i>ACS Synthetic Biology</i> , <b>2019</b> , 8, 127-136	5.7	53
49	(1)H-NMR-based metabolomic analysis of the effect of moderate wine consumption on subjects with cardiovascular risk factors. <i>Electrophoresis</i> , <b>2012</b> , 33, 2345-54	3.6	50
48	Early detection of fungal growth in bakery products by use of an electronic nose based on mass spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , <b>2004</b> , 52, 6068-74	5.7	44
47	geoRge: A Computational Tool To Detect the Presence of Stable Isotope Labeling in LC/MS-Based Untargeted Metabolomics. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 621-8	7.8	43
46	Fast detection of rancidity in potato crisps using e-noses based on mass spectrometry or gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 106, 67-75	8.5	42
45	AStream: an R package for annotating LC/MS metabolomic data. <i>Bioinformatics</i> , <b>2011</b> , 27, 1339-40	7.2	41

44	Dolphin: a tool for automatic targeted metabolite profiling using 1D and 2D (1)H-NMR data. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 7967-76	4.4	40
43	FoxA and LIPG endothelial lipase control the uptake of extracellular lipids for breast cancer growth. <i>Nature Communications</i> , <b>2016</b> , 7, 11199	17.4	39
42	On-line monitoring of CO <sub>2</sub> quality using doped WO <sub>3</sub> thin film sensors. <i>Thin Solid Films</i> , <b>2006</b> , 500, 302-308	3.2	38
41	Efficient feature selection for mass spectrometry based electronic nose applications. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2007</b> , 85, 253-261	3.8	35
40	Metabolomics reveals reduction of metabolic oxidation in women with polycystic ovary syndrome after pioglitazone-flutamide-metformin polytherapy. <i>PLoS ONE</i> , <b>2011</b> , 6, e29052	3.7	34
39	Focus: a robust workflow for one-dimensional NMR spectral analysis. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 1166-9	3.9	33
38	Dietary proanthocyanidins boost hepatic NAD(+) metabolism and SIRT1 expression and activity in a dose-dependent manner in healthy rats. <i>Scientific Reports</i> , <b>2016</b> , 6, 24977	4.9	31
37	Use of a MS-electronic nose for prediction of early fungal spoilage of bakery products. <i>International Journal of Food Microbiology</i> , <b>2007</b> , 114, 10-6	5.8	28
36	Liver fat deposition and mitochondrial dysfunction in morbid obesity: An approach combining metabolomics with liver imaging and histology. <i>World Journal of Gastroenterology</i> , <b>2015</b> , 21, 7529-44	5.6	28
35	LipSpin: A New Bioinformatics Tool for Quantitative H NMR Lipid Profiling. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 2031-2040	7.8	26
34	FELLA: an R package to enrich metabolomics data. <i>BMC Bioinformatics</i> , <b>2018</b> , 19, 538	3.6	25
33	Obesity rather than regional fat depots marks the metabolomic pattern of adipose tissue: an untargeted metabolomic approach. <i>Obesity</i> , <b>2014</b> , 22, 698-704	8	23
32	Particle size measurement of lipoprotein fractions using diffusion-ordered NMR spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 402, 2407-15	4.4	23
31	Biomarkers of food intake and metabolite differences between plasma and red blood cell matrices; a human metabolomic profile approach. <i>Molecular BioSystems</i> , <b>2013</b> , 9, 1411-22		21
30	Surface fitting of 2D diffusion-edited 1H NMR spectroscopy data for the characterisation of human plasma lipoproteins. <i>Metabolomics</i> , <b>2011</b> , 7, 572-582	4.7	21
29	Metabolic phenotyping of genetically modified mice: An NMR metabolomic approach. <i>Biochimie</i> , <b>2009</b> , 91, 1053-7	4.6	21
28	EXD2 governs germ stem cell homeostasis and lifespan by promoting mitoribosome integrity and translation. <i>Nature Cell Biology</i> , <b>2018</b> , 20, 162-174	23.4	20
27	biochem4j: Integrated and extensible biochemical knowledge through graph databases. <i>PLoS ONE</i> , <b>2017</b> , 12, e0179130	3.7	18

26	A Toolbox for Diverse Oxyfunctionalisation of Monoterpenes. <i>Scientific Reports</i> , <b>2018</b> , 8, 14396	4.9	17
25	Null diffusion-based enrichment for metabolomics data. <i>PLoS ONE</i> , <b>2017</b> , 12, e0189012	3.7	16
24	Engineering the "Missing Link" in Biosynthetic (-)-Menthol Production: Bacterial Isopulegone Isomerase. <i>ACS Catalysis</i> , <b>2018</b> , 8, 2012-2020	13.1	14
23	Positional Enrichment by Proton Analysis (PEPA): A One-Dimensional H-NMR Approach for C Stable Isotope Tracer Studies in Metabolomics. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 3531-3535	16.4	12
22	Integrated Probabilistic Annotation: A Bayesian-Based Annotation Method for Metabolomic Profiles Integrating Biochemical Connections, Isotope Patterns, and Adduct Relationships. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 12799-12807	7.8	11
21	Glucose metabolism during fasting is altered in experimental porphobilinogen deaminase deficiency. <i>Human Molecular Genetics</i> , <b>2016</b> , 25, 1318-27	5.6	11
20	A fuzzy ARTMAP- and PLS-based MS e-nose for the qualitative and quantitative assessment of rancidity in crisps. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 106, 677-686	8.5	11
19	Metabolomic Response to Acute Hypoxic Exercise and Recovery in Adult Males. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1682	4.6	11
18	Metabolomics reveals impaired maturation of HDL particles in adolescents with hyperinsulinaemic androgen excess. <i>Scientific Reports</i> , <b>2015</b> , 5, 11496	4.9	10
17	MS-electronic nose performance improvement using the retention time dimension and two-way and three-way data processing methods. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 143, 759-768	8.5	10
16	A (1)H NMR metabolic profiling to the assessment of protein tyrosine phosphatase 1B role in liver regeneration after partial hepatectomy. <i>Biochimie</i> , <b>2013</b> , 95, 808-16	4.6	9
15	Improving Assessment of Lipoprotein Profile in Type 1 Diabetes by 1H NMR Spectroscopy. <i>PLoS ONE</i> , <b>2015</b> , 10, e0136348	3.7	9
14	Integrative analysis reveals novel pathways mediating the interaction between adipose tissue and pancreatic islets in obesity in rats. <i>Diabetologia</i> , <b>2014</b> , 57, 1219-31	10.3	6
13	SYNBIOCHEM Synthetic Biology Research Centre, Manchester - A UK foundry for fine and speciality chemicals production. <i>Synthetic and Systems Biotechnology</i> , <b>2016</b> , 1, 271-275	4.2	5
12	Use of multivariate chemometric algorithms on 1H NMR data to assess a soluble fiber (Plantago ovata husk) nutritional intervention. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2013</b> , 121, 1-8	3.8	5
11	Baitmet, a computational approach for GCMS library-driven metabolite profiling. <i>Metabolomics</i> , <b>2017</b> , 13, 1	4.7	5
10	SYNBIOCHEM-a SynBio foundry for the biosynthesis and sustainable production of fine and speciality chemicals. <i>Biochemical Society Transactions</i> , <b>2016</b> , 44, 675-7	5.1	5
9	Untargeted lipidomics uncovers lipid signatures that distinguish severe from moderate forms of acutely decompensated cirrhosis. <i>Journal of Hepatology</i> , <b>2021</b> , 75, 1116-1127	13.4	5

8	HERMES: a molecular-formula-oriented method to target the metabolome. <i>Nature Methods</i> , <b>2021</b> , 18, 1370-1376	21.6	3
7	Exploring the Use of Gas Chromatography Coupled to Chemical Ionization Mass Spectrometry (GC-CI-MS) for Stable Isotope Labeling in Metabolomics. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 1242-1248	7.8	3
6	Dolphin 1D: Improving Automation of Targeted Metabolomics in Multi-matrix Datasets of ( <sup>1</sup> H)-NMR Spectra. <i>Advances in Intelligent Systems and Computing</i> , <b>2015</b> , 59-67	0.4	2
5	Innentitelbild: Positional Enrichment by Proton Analysis (PEPA): A One-Dimensional <sup>1</sup> H-NMR Approach for <sup>13</sup> C Stable Isotope Tracer Studies in Metabolomics (Angew. Chem. 13/2017). <i>Angewandte Chemie</i> , <b>2017</b> , 129, 3446-3446	3.6	1
4	Positional Enrichment by Proton Analysis (PEPA): A One-Dimensional <sup>1</sup> H-NMR Approach for <sup>13</sup> C Stable Isotope Tracer Studies in Metabolomics. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 3585-3589	3.6	1
3	Toxicity of 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK) in early development: A wide-scope metabolomics assay in zebrafish embryos.. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 429, 127746 <sup>12.8</sup>		0
2	Nuclear Magnetic Resonance Spectroscopy Data Processing <b>2019</b> , 101-128		
1	Muscular carnosine is a marker for cardiorespiratory fitness and cardiometabolic risk factors in men with type 1 diabetes.. <i>European Journal of Applied Physiology</i> , <b>2022</b> , 1	3.4	