

Maria Vinaixa

List of Publications by Year in descending order

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63
papers

2,919
citations

185998

28
h-index

174990

52
g-index

69
all docs

69
docs citations

69
times ranked

5371
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2016, 78, 23-35.	5.8	404
2	A Guideline to Univariate Statistical Analysis for LC/MS-Based Untargeted Metabolomics-Derived Data. <i>Metabolites</i> , 2012, 2, 775-795.	1.3	224
3	An automated Design-Build-Test-Learn pipeline for enhanced microbial production of fine chemicals. <i>Communications Biology</i> , 2018, 1, 66.	2.0	159
4	Metabolomic Assessment of the Effect of Dietary Cholesterol in the Progressive Development of Fatty Liver Disease. <i>Journal of Proteome Research</i> , 2010, 9, 2527-2538.	1.8	141
5	Liposcale: a novel advanced lipoprotein test based on 2D diffusion-ordered ¹ H NMR spectroscopy. <i>Journal of Lipid Research</i> , 2015, 56, 737-746.	2.0	133
6	eRah: A Computational Tool Integrating Spectral Deconvolution and Alignment with Quantification and Identification of Metabolites in GC/MS-Based Metabolomics. <i>Analytical Chemistry</i> , 2016, 88, 9821-9829.	3.2	101
7	Urine metabolome profiling of immune-mediated inflammatory diseases. <i>BMC Medicine</i> , 2016, 14, 133.	2.3	97
8	Metabolic Heterogeneity in Polycystic Ovary Syndrome Is Determined by Obesity: Plasma Metabolomic Approach Using GC-MS. <i>Clinical Chemistry</i> , 2012, 58, 999-1009.	1.5	94
9	Machine Learning of Designed Translational Control Allows Predictive Pathway Optimization in <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2019, 8, 127-136.	1.9	88
10	Assessment of Compatibility between Extraction Methods for NMR- and LC/MS-Based Metabolomics. <i>Analytical Chemistry</i> , 2012, 84, 5838-5844.	3.2	86
11	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> , 2007, 128, 235-244.	4.0	78
12	geoRge: A Computational Tool To Detect the Presence of Stable Isotope Labeling in LC/MS-Based Untargeted Metabolomics. <i>Analytical Chemistry</i> , 2016, 88, 621-628.	3.2	67
13	Metabolomics Approach for Analyzing the Effects of Exercise in Subjects with Type 1 Diabetes Mellitus. <i>PLoS ONE</i> , 2012, 7, e40600.	1.1	66
14	FELLA: an R package to enrich metabolomics data. <i>BMC Bioinformatics</i> , 2018, 19, 538.	1.2	61
15	¹ H NMR-based metabolomic analysis of the effect of moderate wine consumption on subjects with cardiovascular risk factors. <i>Electrophoresis</i> , 2012, 33, 2345-2354.	1.3	56
16	Dolphin: a tool for automatic targeted metabolite profiling using 1D and 2D ¹ H-NMR data. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 7967-7976.	1.9	55
17	Fast detection of rancidity in potato crisps using e-noses based on mass spectrometry or gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2005, 106, 67-75.	4.0	53
18	FoxA and LIPG endothelial lipase control the uptake of extracellular lipids for breast cancer growth. <i>Nature Communications</i> , 2016, 7, 11199.	5.8	50

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19	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> , 2004, 52, 6068-6074.	2.4	47
20	AStream: an R package for annotating LC/MS metabolomic data. <i>Bioinformatics</i> , 2011, 27, 1339-1340.	1.8	46
21	Efficient feature selection for mass spectrometry based electronic nose applications. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2007, 85, 253-261.	1.8	44
22	On-line monitoring of CO ₂ quality using doped WO ₃ thin film sensors. <i>Thin Solid Films</i> , 2006, 500, 302-308.	0.8	41
23	Metabolomics Reveals Reduction of Metabolic Oxidation in Women with Polycystic Ovary Syndrome after Pioglitazone-Flutamide-Metformin Polytherapy. <i>PLoS ONE</i> , 2011, 6, e29052.	1.1	41
24	Dietary proanthocyanidins boost hepatic NAD ⁺ metabolism and SIRT1 expression and activity in a dose-dependent manner in healthy rats. <i>Scientific Reports</i> , 2016, 6, 24977.	1.6	40
25	LipSpin: A New Bioinformatics Tool for Quantitative ¹ H NMR Lipid Profiling. <i>Analytical Chemistry</i> , 2018, 90, 2031-2040.	3.2	38
26	Focus: A Robust Workflow for One-Dimensional NMR Spectral Analysis. <i>Analytical Chemistry</i> , 2014, 86, 1160-1169.	3.2	36
27	Liver fat deposition and mitochondrial dysfunction in morbid obesity: An approach combining metabolomics with liver imaging and histology. <i>World Journal of Gastroenterology</i> , 2015, 21, 7529.	1.4	35
28	Use of a MS-electronic nose for prediction of early fungal spoilage of bakery products. <i>International Journal of Food Microbiology</i> , 2007, 114, 10-16.	2.1	32
29	biochem4j: Integrated and extensible biochemical knowledge through graph databases. <i>PLoS ONE</i> , 2017, 12, e0179130.	1.1	31
30	EXD2 governs germ stem cell homeostasis and lifespan by promoting mitoribosome integrity and translation. <i>Nature Cell Biology</i> , 2018, 20, 162-174.	4.6	31
31	Untargeted lipidomics uncovers lipid signatures that distinguish severe from moderate forms of acutely decompensated cirrhosis. <i>Journal of Hepatology</i> , 2021, 75, 1116-1127.	1.8	31
32	Null diffusion-based enrichment for metabolomics data. <i>PLoS ONE</i> , 2017, 12, e0189012.	1.1	29
33	Obesity rather than regional fat depots marks the metabolomic pattern of adipose tissue: An untargeted metabolomic approach. <i>Obesity</i> , 2014, 22, 698-704.	1.5	28
34	Particle size measurement of lipoprotein fractions using diffusion-ordered NMR spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 2407-2415.	1.9	27
35	Surface fitting of 2D diffusion-edited ¹ H NMR spectroscopy data for the characterisation of human plasma lipoproteins. <i>Metabolomics</i> , 2011, 7, 572-582.	1.4	25
36	A Toolbox for Diverse Oxyfunctionalisation of Monoterpenes. <i>Scientific Reports</i> , 2018, 8, 14396.	1.6	25

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37	Metabolic phenotyping of genetically modified mice: An NMR metabonomic approach†. <i>Biochimie</i> , 2009, 91, 1053-1057.	1.3	23
38	Biomarkers of food intake and metabolite differences between plasma and red blood cell matrices; a human metabolomic profile approach. <i>Molecular BioSystems</i> , 2013, 9, 1411.	2.9	23
39	Metabolomic Response to Acute Hypoxic Exercise and Recovery in Adult Males. <i>Frontiers in Physiology</i> , 2018, 9, 1682.	1.3	22
40	Engineering the “Missing Link” in Biosynthetic (âˆ”)–Menthol Production: Bacterial Isopulegone Isomerase. <i>ACS Catalysis</i> , 2018, 8, 2012-2020.	5.5	20
41	Glucose metabolism during fasting is altered in experimental porphobilinogen deaminase deficiency. <i>Human Molecular Genetics</i> , 2016, 25, 1318-1327.	1.4	19
42	Integrated Probabilistic Annotation: A Bayesian-Based Annotation Method for Metabolomic Profiles Integrating Biochemical Connections, Isotope Patterns, and Adduct Relationships. <i>Analytical Chemistry</i> , 2019, 91, 12799-12807.	3.2	17
43	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> , 2021, 93, 1242-1248.	3.2	16
44	HERMES: a molecular-formula-oriented method to target the metabolome. <i>Nature Methods</i> , 2021, 18, 1370-1376.	9.0	16
45	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> , 2005, 106, 677-686.	4.0	15
46	Metabolomics reveals impaired maturation of HDL particles in adolescents with hyperinsulinaemic androgen excess. <i>Scientific Reports</i> , 2015, 5, 11496.	1.6	15
47	Positional Enrichment by Proton Analysis (PEPA): A Oneâ€Dimensional ¹³ C Stable Isotope Tracer Studies in Metabolomics. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3531-3535.	7.2	15
48	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> , 2010, 143, 759-768.	4.0	10
49	A 1H NMR metabolic profiling to the assessment of protein tyrosine phosphatase 1B role in liver regeneration after partial hepatectomy. <i>Biochimie</i> , 2013, 95, 808-816.	1.3	10
50	Improving Assessment of Lipoprotein Profile in Type 1 Diabetes by 1H NMR Spectroscopy. <i>PLoS ONE</i> , 2015, 10, e0136348.	1.1	10
51	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> , 2022, 429, 127746.	6.5	10
52	Integrative analysis reveals novel pathways mediating the interaction between adipose tissue and pancreatic islets in obesity in rats. <i>Diabetologia</i> , 2014, 57, 1219-1231.	2.9	7
53	SYNBIOCHEMâ€a SynBio foundry for the biosynthesis and sustainable production of fine and speciality chemicals. <i>Biochemical Society Transactions</i> , 2016, 44, 675-677.	1.6	7
54	Baitmet, a computational approach for GCâ€MS library-driven metabolite profiling. <i>Metabolomics</i> , 2017, 13, 1.	1.4	7

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55	SYNBIOCHEM Synthetic Biology Research Centre, Manchester â€” A UK foundry for fine and speciality chemicals production. Synthetic and Systems Biotechnology, 2016, 1, 271-275.	1.8	6
56	Use of multivariate chemometric algorithms on 1H NMR data to assess a soluble fiber (Plantago ovata) Tj ETQq0 0 0 ggBT /Overlock 10 T	1.8	5
57	Dolphin 1D: Improving Automation of Targeted Metabolomics in Multi-matrix Datasets of $^1\text{H-NMR}$ Spectra. Advances in Intelligent Systems and Computing, 2015, , 59-67.	0.5	3
58	Innentitelbild: Positional Enrichment by Proton Analysis (PEPA): A Oneâ€”Dimensional $^1\text{H-NMR}$ Approach for ^{13}C Stable Isotope Tracer Studies in Metabolomics (Angew. Chem. 13/2017). Angewandte Chemie, 2017, 129, 3446-3446.	1.6	1
59	Positional Enrichment by Proton Analysis (PEPA): A One-Dimensional $^1\text{H-NMR}$ Approach for ^{13}C Stable Isotope Tracer Studies in Metabolomics. Angewandte Chemie, 2017, 129, 3585-3589.	1.6	1
60	Increased Hypothalamic Anti-Inflammatory Mediators in Non-Diabetic Insulin Receptor Substrate 2-Deficient Mice. Cells, 2021, 10, 2085.	1.8	1
61	MS-Electronic Nose Performance Improvement Using GC Retention Times And 2-Way And 3-Way Data Processing Methods. , 2009, , .		0
62	A Fuzzy ARTMAP Approach To The Incorporation Of Chromatographic Retention Time Information To An MS Based E-Nose. , 2009, , .		0
63	Muscular carnosine is a marker for cardiorespiratory fitness and cardiometabolic risk factors in men with type 1 diabetes. European Journal of Applied Physiology, 2022, , 1.	1.2	0