

# Joaquim Jaumot

## List of Publications by Year in Descending Order

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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.

69 papers	3,797 citations	29 h-index	61 g-index
70 ext. papers	4,291 ext. citations	5.5 avg, IF	5.86 L-index

#	Paper	IF	Citations
69	Lipidomic analysis of single and combined effects of polyethylene microplastics and polychlorinated biphenyls on human hepatoma cells. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 421, 126777	12.8	8
68	Adverse Effects of Arsenic Uptake in Rice Metabolome and Lipidome Revealed by Untargeted Liquid Chromatography Coupled to Mass Spectrometry (LC-MS) and Regions of Interest Multivariate Curve Resolution. <i>Separations</i> , <b>2022</b> , 9, 79	3.1	0
67	Comparison of Multivariate ANOVA-Based Approaches for the Determination of Relevant Variables in Experimentally Designed Metabolomic Studies. <i>Molecules</i> , <b>2022</b> , 27, 3304	4.8	0
66	Quantification strategies for two-dimensional liquid chromatography datasets using regions of interest and multivariate curve resolution approaches. <i>Talanta</i> , <b>2022</b> , 247, 123586	6.2	
65	Two-Dimensional Liquid Chromatography in Metabolomics and Lipidomics. <i>Neuromethods</i> , <b>2021</b> , 25-47	0.4	3
64	Untangling comprehensive two-dimensional liquid chromatography data sets using regions of interest and multivariate curve resolution approaches. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2021</b> , 137, 116207	14.6	6
63	MSroi: A pre-processing tool for mass spectrometry-based studies. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2021</b> , 215, 104333	3.8	5
62	Mass Spectrometry Imaging: Chemometric Data Analysis <b>2020</b> , 381-394		
61	Interaction of Environmental Pollutants with Microplastics: A Critical Review of Sorption Factors, Bioaccumulation and Ecotoxicological Effects. <i>Toxics</i> , <b>2020</b> , 8,	4.7	45
60	Chemometrics in comprehensive two-dimensional liquid chromatography: A study of the data structure and its multilinear behavior. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2020</b> , 201, 104009	3.8	6
59	Partial characterization of the lipidome of the cold-water scallop, <i>Chlamys islandica</i> . <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 1475-1484	5.1	2
58	ROIMCR: a powerful analysis strategy for LC-MS metabolomic datasets. <i>BMC Bioinformatics</i> , <b>2019</b> , 20, 256	3.6	31
57	Untargeted lipidomic evaluation of hydric and heat stresses on rice growth. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2019</b> , 1104, 148-156	3.2	7
56	Assessment of endocrine disruptors effects on zebrafish ( <i>Danio rerio</i> ) embryos by untargeted LC-HRMS metabolomic analysis. <i>Science of the Total Environment</i> , <b>2018</b> , 635, 156-166	10.2	55
55	Chemometric Strategies for Peak Detection and Profiling from Multidimensional Chromatography. <i>Proteomics</i> , <b>2018</b> , 18, e1700327	4.8	13
54	A chemometric approach for characterization of serum transthyretin in familial amyloidotic polyneuropathy type I (FAP-I) by electrospray ionization-ion mobility mass spectrometry. <i>Talanta</i> , <b>2018</b> , 181, 87-94	6.2	3
53	An untargeted lipidomic strategy combining comprehensive two-dimensional liquid chromatography and chemometric analysis. <i>Journal of Chromatography A</i> , <b>2018</b> , 1568, 80-90	4.5	25

52	Compression and Resolution Tools for the Analysis of Untargeted Metabolomic Data. <i>Comprehensive Analytical Chemistry</i> , <b>2018</b> , 82, 337-368	1.9	1
51	Identification of antihypertensive peptides in nutraceuticals by capillary electrophoresis-mass spectrometry. <i>Journal of Chromatography A</i> , <b>2018</b> , 1579, 129-137	4.5	10
50	Introduction to the Data Analysis Relevance in the Omic Era. <i>Comprehensive Analytical Chemistry</i> , <b>2018</b> , 1-12	1.9	1
49	Chemometric evaluation of hydrophilic interaction liquid chromatography stationary phases: resolving complex mixtures of metabolites. <i>Analytical Methods</i> , <b>2017</b> , 9, 774-785	3.2	8
48	The human mitochondrial transcription factor A is a versatile G-quadruplex binding protein. <i>Scientific Reports</i> , <b>2017</b> , 7, 43992	4.9	29
47	Metabolomic analysis of the effects of cadmium and copper treatment in <i>Oryza sativa</i> L. using untargeted liquid chromatography coupled to high resolution mass spectrometry and all-ion fragmentation. <i>Metallomics</i> , <b>2017</b> , 9, 660-675	4.5	29
46	Knowledge integration strategies for untargeted metabolomics based on MCR-ALS analysis of CE-MS and LC-MS data. <i>Analytica Chimica Acta</i> , <b>2017</b> , 978, 10-23	6.6	35
45	Untargeted Comprehensive Two-Dimensional Liquid Chromatography Coupled with High-Resolution Mass Spectrometry Analysis of Rice Metabolome Using Multivariate Curve Resolution. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 7675-7683	7.8	62
44	Analysis of multiple mass spectrometry images from different <i>Phaseolus vulgaris</i> samples by multivariate curve resolution. <i>Talanta</i> , <b>2017</b> , 175, 557-565	6.2	14
43	Metabolic disruption of zebrafish ( <i>Danio rerio</i> ) embryos by bisphenol A. An integrated metabolomic and transcriptomic approach. <i>Environmental Pollution</i> , <b>2017</b> , 231, 22-36	9.3	47
42	Modelling of Hydrophilic Interaction Liquid Chromatography Stationary Phases Using Chemometric Approaches. <i>Metabolites</i> , <b>2017</b> , 7,	5.6	6
41	Data analysis strategies for targeted and untargeted LC-MS metabolomic studies: Overview and workflow. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2016</b> , 82, 425-442	14.6	172
40	Metabolic profiling for the identification of Huntington biomarkers by on-line solid-phase extraction capillary electrophoresis mass spectrometry combined with advanced data analysis tools. <i>Electrophoresis</i> , <b>2016</b> , 37, 795-808	3.6	26
39	Chemometric analysis of comprehensive LC-MS data: Resolution of triacylglycerol structural isomers in corn oil. <i>Talanta</i> , <b>2016</b> , 160, 624-635	6.2	27
38	Compression strategies for the chemometric analysis of mass spectrometry imaging data. <i>Journal of Chemometrics</i> , <b>2016</b> , 30, 575-588	1.6	24
37	Lipidomic data analysis: tutorial, practical guidelines and applications. <i>Analytica Chimica Acta</i> , <b>2015</b> , 885, 1-16	6.6	72
36	qRT-PCR evaluation of the transcriptional response of zebra mussel to heavy metals. <i>BMC Genomics</i> , <b>2015</b> , 16, 354	4.5	6
35	Phenotypic malignant changes and untargeted lipidomic analysis of long-term exposed prostate cancer cells to endocrine disruptors. <i>Environmental Research</i> , <b>2015</b> , 140, 18-31	7.9	29

34	Evaluation of changes induced in rice metabolome by Cd and Cu exposure using LC-MS with XCMS and MCR-ALS data analysis strategies. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 8835-47	4.4	32
33	Epithelial-to-mesenchymal transition involves triacylglycerol accumulation in DU145 prostate cancer cells. <i>Molecular BioSystems</i> , <b>2015</b> , 11, 3397-406		31
32	Potential use of multivariate curve resolution for the analysis of mass spectrometry images. <i>Analyst, The</i> , <b>2015</b> , 140, 837-46	5	34
31	MCR-ALS GUI 2.0: New features and applications. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2015</b> , 140, 1-12	3.8	466
30	Combination of CE-MS and advanced chemometric methods for high-throughput metabolic profiling. <i>Electrophoresis</i> , <b>2015</b> , 36, 2324-2335	3.6	22
29	Vibrational spectroscopic image analysis of biological material using multivariate curve resolution-alternating least squares (MCR-ALS). <i>Nature Protocols</i> , <b>2015</b> , 10, 217-40	18.8	190
28	Multivariate Curve Resolution (MCR). Solving the mixture analysis problem. <i>Analytical Methods</i> , <b>2014</b> , 6, 4964-4976	3.2	340
27	Modeling strategies for pharmaceutical blend monitoring and end-point determination by near-infrared spectroscopy. <i>International Journal of Pharmaceutics</i> , <b>2014</b> , 473, 219-31	6.5	26
26	Solution equilibria of cytosine- and guanine-rich sequences near the promoter region of the n-myc gene that contain stable hairpins within lateral loops. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2014</b> , 1840, 41-52	4	31
25	Blending process modeling and control by multivariate curve resolution. <i>Talanta</i> , <b>2013</b> , 117, 492-504	6.2	27
24	Combination of chromatographic and chemometric methods to study the interactions between DNA strands. <i>Analytica Chimica Acta</i> , <b>2012</b> , 722, 34-42	6.6	9
23	Porphyrin binding mechanism is altered by protonation at the loops in G-quadruplex DNA formed near the transcriptional activation site of the human c-kit gene. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2012</b> , 1820, 1987-96	4	19
22	Experimental methods for studying the interactions between G-quadruplex structures and ligands. <i>Current Pharmaceutical Design</i> , <b>2012</b> , 18, 1900-16	3.3	97
21	Influence of pH, temperature and the cationic porphyrin TMPyP4 on the stability of the i-motif formed by the 5V(C3TA2)4-3Vsequence of the human telomere. <i>International Journal of Biological Macromolecules</i> , <b>2011</b> , 49, 729-36	7.9	42
20	Chemical equilibria studies using multivariate analysis methods. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 399, 1983-97	4.4	23
19	Using principal component analysis to find correlations between loop-related and thermodynamic variables for G-quadruplex-forming sequences. <i>Biochimie</i> , <b>2010</b> , 92, 1016-23	4.6	6
18	Application of multivariate curve resolution to the analysis of yeast genome-wide screens. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2010</b> , 104, 53-64	3.8	23
17	MCR-BANDS: A user friendly MATLAB program for the evaluation of rotation ambiguities in Multivariate Curve Resolution. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2010</b> , 103, 96-107	3.8	157

16	MCRC software: A tool for chemometric analysis of two-way chromatographic data. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2010</b> , 104, 155-171	3.8	52
15	pH-Modulated Watson-Crick duplex-quadruplex equilibria of guanine-rich and cytosine-rich DNA sequences 140 base pairs upstream of the c-kit transcription initiation site. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 12663-71	4.8	37
14	Classification of nucleic acids structures by means of the chemometric analysis of circular dichroism spectra. <i>Analytica Chimica Acta</i> , <b>2009</b> , 642, 117-26	6.6	29
13	Targeting the G-quadruplex-forming region near the P1 promoter in the human BCL-2 gene with the cationic porphyrin TMPyP4 and with the complementary C-rich strand. <i>Biochimie</i> , <b>2009</b> , 91, 894-902	4.6	36
12	Study of the interaction between the G-quadruplex-forming thrombin-binding aptamer and the porphyrin 5,10,15,20-tetrakis-(N-methyl-4-pyridyl)-21,23H-porphyrin tetratosylate. <i>Analytical Biochemistry</i> , <b>2008</b> , 379, 8-15	3.1	42
11	Quality assessment of the results obtained by multivariate curve resolution analysis of multiple runs of gasoline blending processes. <i>Journal of Chemometrics</i> , <b>2006</b> , 20, 54-67	1.6	25
10	Resolution of a structural competition involving dimeric G-quadruplex and its C-rich complementary strand. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, 206-16	20.1	34
9	Exploratory data analysis of DNA microarrays by multivariate curve resolution. <i>Analytical Biochemistry</i> , <b>2006</b> , 358, 76-89	3.1	28
8	A graphical user-friendly interface for MCR-ALS: a new tool for multivariate curve resolution in MATLAB. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2005</b> , 76, 101-110	3.8	852
7	Non-negativity constraints for elimination of multiple solutions in fitting of multivariate kinetic models to spectroscopic data. <i>Journal of Chemometrics</i> , <b>2005</b> , 19, 97-106	1.6	26
6	Application of multivariate resolution methods to the study of biochemical and biophysical processes. <i>Analytical Biochemistry</i> , <b>2004</b> , 327, 1-13	3.1	46
5	Noise propagation and error estimations in multivariate curve resolution alternating least squares using resampling methods. <i>Journal of Chemometrics</i> , <b>2004</b> , 18, 327-340	1.6	47
4	Indications towards a stereoselectivity of the salt-induced peptide formation reaction. <i>Inorganica Chimica Acta</i> , <b>2004</b> , 357, 649-656	2.7	29
3	Multivariate curve resolution applied to the analysis and resolution of two-dimensional [ <sup>1</sup> H, <sup>15</sup> N] NMR reaction spectra. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 7094-101	7.8	51
2	Multivariate resolution of NMR labile signals by means of hard- and soft-modelling methods. <i>Analytica Chimica Acta</i> , <b>2003</b> , 490, 253-264	6.6	17
1	Multivariate curve resolution: a powerful tool for the analysis of conformational transitions in nucleic acids. <i>Nucleic Acids Research</i> , <b>2002</b> , 30, e92	20.1	61