

Joaquim Jaumot

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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	A graphical user-friendly interface for MCR-ALS: a new tool for multivariate curve resolution in MATLAB. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2005 , 76, 101-110	3.8	852
68	MCR-ALS GUI 2.0: New features and applications. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2015 , 140, 1-12	3.8	466
67	Multivariate Curve Resolution (MCR). Solving the mixture analysis problem. <i>Analytical Methods</i> , 2014 , 6, 4964-4976	3.2	340
66	Vibrational spectroscopic image analysis of biological material using multivariate curve resolution-alternating least squares (MCR-ALS). <i>Nature Protocols</i> , 2015 , 10, 217-40	18.8	190
65	Data analysis strategies for targeted and untargeted LC-MS metabolomic studies: Overview and workflow. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 82, 425-442	14.6	172
64	MCR-BANDS: A user friendly MATLAB program for the evaluation of rotation ambiguities in Multivariate Curve Resolution. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2010 , 103, 96-107	3.8	157
63	Experimental methods for studying the interactions between G-quadruplex structures and ligands. <i>Current Pharmaceutical Design</i> , 2012 , 18, 1900-16	3.3	97
62	Lipidomic data analysis: tutorial, practical guidelines and applications. <i>Analytica Chimica Acta</i> , 2015 , 885, 1-16	6.6	72
61	Untargeted Comprehensive Two-Dimensional Liquid Chromatography Coupled with High-Resolution Mass Spectrometry Analysis of Rice Metabolome Using Multivariate Curve Resolution. <i>Analytical Chemistry</i> , 2017 , 89, 7675-7683	7.8	62
60	Multivariate curve resolution: a powerful tool for the analysis of conformational transitions in nucleic acids. <i>Nucleic Acids Research</i> , 2002 , 30, e92	20.1	61
59	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> , 2018 , 635, 156-166	10.2	55
58	MCRC software: A tool for chemometric analysis of two-way chromatographic data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2010 , 104, 155-171	3.8	52
57	Multivariate curve resolution applied to the analysis and resolution of two-dimensional [¹ H, ¹⁵ N] NMR reaction spectra. <i>Analytical Chemistry</i> , 2004 , 76, 7094-101	7.8	51
56	Metabolic disruption of zebrafish (<i>Danio rerio</i>) embryos by bisphenol A. An integrated metabolomic and transcriptomic approach. <i>Environmental Pollution</i> , 2017 , 231, 22-36	9.3	47
55	Noise propagation and error estimations in multivariate curve resolution alternating least squares using resampling methods. <i>Journal of Chemometrics</i> , 2004 , 18, 327-340	1.6	47
54	Application of multivariate resolution methods to the study of biochemical and biophysical processes. <i>Analytical Biochemistry</i> , 2004 , 327, 1-13	3.1	46
53	Interaction of Environmental Pollutants with Microplastics: A Critical Review of Sorption Factors, Bioaccumulation and Ecotoxicological Effects. <i>Toxics</i> , 2020 , 8,	4.7	45

52	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> , 2011 , 49, 729-36	7.9	42
51	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> , 2008 , 379, 8-15	3.1	42
50	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> , 2009 , 15, 12663-71	4.8	37
49	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> , 2009 , 91, 894-902	4.6	36
48	Knowledge integration strategies for untargeted metabolomics based on MCR-ALS analysis of CE-MS and LC-MS data. <i>Analytica Chimica Acta</i> , 2017 , 978, 10-23	6.6	35
47	Potential use of multivariate curve resolution for the analysis of mass spectrometry images. <i>Analyst, The</i> , 2015 , 140, 837-46	5	34
46	Resolution of a structural competition involving dimeric G-quadruplex and its C-rich complementary strand. <i>Nucleic Acids Research</i> , 2006 , 34, 206-16	20.1	34
45	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> , 2015 , 407, 8835-47	4.4	32
44	ROIMCR: a powerful analysis strategy for LC-MS metabolomic datasets. <i>BMC Bioinformatics</i> , 2019 , 20, 256	3.6	31
43	Epithelial-to-mesenchymal transition involves triacylglycerol accumulation in DU145 prostate cancer cells. <i>Molecular BioSystems</i> , 2015 , 11, 3397-406		31
42	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> , 2014 , 1840, 41-52	4	31
41	The human mitochondrial transcription factor A is a versatile G-quadruplex binding protein. <i>Scientific Reports</i> , 2017 , 7, 43992	4.9	29
40	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> , 2017 , 9, 660-675	4.5	29
39	Phenotypic malignant changes and untargeted lipidomic analysis of long-term exposed prostate cancer cells to endocrine disruptors. <i>Environmental Research</i> , 2015 , 140, 18-31	7.9	29
38	Classification of nucleic acids structures by means of the chemometric analysis of circular dichroism spectra. <i>Analytica Chimica Acta</i> , 2009 , 642, 117-26	6.6	29
37	Indications towards a stereoselectivity of the salt-induced peptide formation reaction. <i>Inorganica Chimica Acta</i> , 2004 , 357, 649-656	2.7	29
36	Exploratory data analysis of DNA microarrays by multivariate curve resolution. <i>Analytical Biochemistry</i> , 2006 , 358, 76-89	3.1	28
35	Blending process modeling and control by multivariate curve resolution. <i>Talanta</i> , 2013 , 117, 492-504	6.2	27

34	Chemometric analysis of comprehensive LC/MS data: Resolution of triacylglycerol structural isomers in corn oil. <i>Talanta</i> , 2016 , 160, 624-635	6.2	27
33	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> , 2016 , 37, 795-808	3.6	26
32	Modeling strategies for pharmaceutical blend monitoring and end-point determination by near-infrared spectroscopy. <i>International Journal of Pharmaceutics</i> , 2014 , 473, 219-31	6.5	26
31	Non-negativity constraints for elimination of multiple solutions in fitting of multivariate kinetic models to spectroscopic data. <i>Journal of Chemometrics</i> , 2005 , 19, 97-106	1.6	26
30	An untargeted lipidomic strategy combining comprehensive two-dimensional liquid chromatography and chemometric analysis. <i>Journal of Chromatography A</i> , 2018 , 1568, 80-90	4.5	25
29	Quality assessment of the results obtained by multivariate curve resolution analysis of multiple runs of gasoline blending processes. <i>Journal of Chemometrics</i> , 2006 , 20, 54-67	1.6	25
28	Compression strategies for the chemometric analysis of mass spectrometry imaging data. <i>Journal of Chemometrics</i> , 2016 , 30, 575-588	1.6	24
27	Chemical equilibria studies using multivariate analysis methods. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 399, 1983-97	4.4	23
26	Application of multivariate curve resolution to the analysis of yeast genome-wide screens. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2010 , 104, 53-64	3.8	23
25	Combination of CE-MS and advanced chemometric methods for high-throughput metabolic profiling. <i>Electrophoresis</i> , 2015 , 36, 2324-2335	3.6	22
24	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> , 2012 , 1820, 1987-96	4	19
23	Multivariate resolution of NMR labile signals by means of hard- and soft-modelling methods. <i>Analytica Chimica Acta</i> , 2003 , 490, 253-264	6.6	17
22	Analysis of multiple mass spectrometry images from different <i>Phaseolus vulgaris</i> samples by multivariate curve resolution. <i>Talanta</i> , 2017 , 175, 557-565	6.2	14
21	Chemometric Strategies for Peak Detection and Profiling from Multidimensional Chromatography. <i>Proteomics</i> , 2018 , 18, e1700327	4.8	13
20	Identification of antihypertensive peptides in nutraceuticals by capillary electrophoresis-mass spectrometry. <i>Journal of Chromatography A</i> , 2018 , 1579, 129-137	4.5	10
19	Combination of chromatographic and chemometric methods to study the interactions between DNA strands. <i>Analytica Chimica Acta</i> , 2012 , 722, 34-42	6.6	9
18	Chemometric evaluation of hydrophilic interaction liquid chromatography stationary phases: resolving complex mixtures of metabolites. <i>Analytical Methods</i> , 2017 , 9, 774-785	3.2	8
17	Lipidomic analysis of single and combined effects of polyethylene microplastics and polychlorinated biphenyls on human hepatoma cells. <i>Journal of Hazardous Materials</i> , 2022 , 421, 126777	12.8	8

16	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> , 2019 , 1104, 148-156	3.2	7
15	qRT-PCR evaluation of the transcriptional response of zebra mussel to heavy metals. <i>BMC Genomics</i> , 2015 , 16, 354	4.5	6
14	Chemometrics in comprehensive two-dimensional liquid chromatography: A study of the data structure and its multilinear behavior. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020 , 201, 104009	3.8	6
13	Modelling of Hydrophilic Interaction Liquid Chromatography Stationary Phases Using Chemometric Approaches. <i>Metabolites</i> , 2017 , 7,	5.6	6
12	Using principal component analysis to find correlations between loop-related and thermodynamic variables for G-quadruplex-forming sequences. <i>Biochimie</i> , 2010 , 92, 1016-23	4.6	6
11	Untangling comprehensive two-dimensional liquid chromatography data sets using regions of interest and multivariate curve resolution approaches. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 137, 116207	14.6	6
10	MSroi: A pre-processing tool for mass spectrometry-based studies. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021 , 215, 104333	3.8	5
9	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> , 2018 , 181, 87-94	6.2	3
8	Two-Dimensional Liquid Chromatography in Metabolomics and Lipidomics. <i>Neuromethods</i> , 2021 , 25-47	0.4	3
7	Partial characterization of the lipidome of the cold-water scallop, <i>Chlamys islandica</i> . <i>Environmental Science and Pollution Research</i> , 2020 , 27, 1475-1484	5.1	2
6	Compression and Resolution Tools for the Analysis of Untargeted Metabolomic Data. <i>Comprehensive Analytical Chemistry</i> , 2018 , 82, 337-368	1.9	1
5	Introduction to the Data Analysis Relevance in the Omic Era. <i>Comprehensive Analytical Chemistry</i> , 2018 , 1-12	1.9	1
4	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> , 2022 , 9, 79	3.1	0
3	Comparison of Multivariate ANOVA-Based Approaches for the Determination of Relevant Variables in Experimentally Designed Metabolomic Studies. <i>Molecules</i> , 2022 , 27, 3304	4.8	0
2	Mass Spectrometry Imaging: Chemometric Data Analysis 2020 , 381-394		
1	Quantification strategies for two-dimensional liquid chromatography datasets using regions of interest and multivariate curve resolution approaches. <i>Talanta</i> , 2022 , 247, 123586	6.2	