

Joan Ferr Baldrich

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/593594/joan-ferre-baldrich-publications-by-year.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70
papers

2,608
citations

25
h-index

50
g-index

72
ext. papers

2,880
ext. citations

5.3
avg, IF

4.84
L-index

#	Paper	IF	Citations
70	Use of visible-near infrared spectroscopy to predict nutrient composition of poultry excreta. <i>Animal Feed Science and Technology</i> , 2022 , 283, 115169	3	0
69	Acid number, viscosity and end-point detection in a multiphase high temperature polymerisation process using an online miniaturised MEMS Fabry-Pérot interferometer. <i>Talanta</i> , 2021 , 224, 121735	6.2	2
68	Estimating Sensory Properties with Near-Infrared Spectroscopy: A Tool for Quality Control and Breeding of Calabots (Allium cepa L.). <i>Agronomy</i> , 2020 , 10, 828	3.6	1
67	Regression Diagnostics 2020 , 431-476		
66	Monitoring wine fermentation deviations using an ATR-MIR spectrometer and MSPC charts. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020 , 201, 104011	3.8	5
65	ATR-MIR spectroscopy and multivariate analysis in alcoholic fermentation monitoring and lactic acid bacteria spoilage detection. <i>Food Control</i> , 2020 , 109, 106947	6.2	10
64	Process Monitoring of Moisture Content and Mass Transfer Rate in a Fluidised Bed with a Low Cost Inline MEMS NIR Sensor. <i>Pharmaceutical Research</i> , 2020 , 37, 84	4.5	9
63	Nutritional values of raw and cooked 'calabots' (Allium cepa L. resprouts), an expanding crop. <i>Journal of the Science of Food and Agriculture</i> , 2019 , 99, 4985-4992	4.3	2
62	Early detection of undesirable deviations in must fermentation using a portable FTIR-ATR instrument and multivariate analysis. <i>Journal of Chemometrics</i> , 2019 , 33, e3162	1.6	2
61	Determination of chemical properties in 'calabot' (Allium cepa L.) by near infrared spectroscopy and multivariate calibration. <i>Food Chemistry</i> , 2018 , 262, 178-183	8.5	11
60	Improving the Commercial Value of the 'Calabot' (L.) Landrace: Influence of Genetic and Environmental Factors in Chemical Composition and Sensory Attributes. <i>Frontiers in Plant Science</i> , 2018 , 9, 1465	6.2	5
59	Selectivity-relaxed classical and inverse least squares calibration and selectivity measures with a unified selectivity coefficient. <i>Journal of Chemometrics</i> , 2017 , 31, e2925	1.6	6
58	Olive oil sensory defects classification with data fusion of instrumental techniques and multivariate analysis (PLS-DA). <i>Food Chemistry</i> , 2016 , 203, 314-322	8.5	65
57	Prediction of olive oil sensory descriptors using instrumental data fusion and partial least squares (PLS) regression. <i>Talanta</i> , 2016 , 155, 116-23	6.2	32
56	Data fusion methodologies for food and beverage authentication and quality assessment - a review. <i>Analytica Chimica Acta</i> , 2015 , 891, 1-14	6.6	383
55	Identification of olive oil sensory defects by multivariate analysis of mid infrared spectra. <i>Food Chemistry</i> , 2015 , 187, 197-203	8.5	27
54	A novel approach to discriminate transgenic from non-transgenic soybean oil using FT-MIR and chemometrics. <i>Food Research International</i> , 2015 , 67, 206-211	7	17

53	Fundamentals of PARAFAC. <i>Data Handling in Science and Technology</i> , 2015 , 7-35	2.7	7
52	Biomonitoring exposure assessment to contemporary pesticides in a school children population of Spain. <i>Environmental Research</i> , 2014 , 131, 77-85	7.9	73
51	Classification of soil samples based on Raman spectroscopy and X-ray fluorescence spectrometry combined with chemometric methods and variable selection. <i>Analytical Methods</i> , 2014 , 6, 8930-8939	3.2	14
50	Acrylic microspheres as drug-delivery systems: synthesis through in situ microemulsion photoinduced polymerization and characterization. <i>Polymer International</i> , 2013 , 62, 304-309	3.3	3
49	Simultaneous determination of aflatoxins B2 and G2 in peanuts using spectrofluorescence coupled with parallel factor analysis. <i>Analytica Chimica Acta</i> , 2013 , 778, 9-14	6.6	15
48	Rapid characterization of transgenic and non-transgenic soybean oils by chemometric methods using NIR spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 100, 115-9	4.4	77
47	Classification of edible oils and modeling of their physico-chemical properties by chemometric methods using mid-IR spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 100, 109-14	4.4	28
46	CHAPTER 4: Ordinary Multiple Linear Regression and Principal Components Regression. <i>Metal Ions in Life Sciences</i> , 2013 , 256-279		1
45	CHAPTER 5: Partial Least-Squares Regression. <i>Metal Ions in Life Sciences</i> , 2013 , 280-347		5
44	Chemometrics analysis of insulin aggregation induced by an antiretroviral drug (AZT). <i>Chemometrics and Intelligent Laboratory Systems</i> , 2012 , 118, 180-186	3.8	1
43	Objective chemical fingerprinting of oil spills by partial least-squares discriminant analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 403, 2027-37	4.4	8
42	Outlier detection for the Generalized Rank Annihilation Method in HPLC-DAD analysis. <i>Talanta</i> , 2011 , 83, 1147-57	6.2	
41	Establishment of multivariate specifications for food commodities with discriminant partial least squares. <i>Talanta</i> , 2010 , 83, 475-81	6.2	2
40	Outlier detection and ambiguity detection for microarray data in probabilistic discriminant partial least squares regression. <i>Journal of Chemometrics</i> , 2010 , 24, 434-443	1.6	7
39	Multi-class classification with probabilistic discriminant partial least squares (p-DPLS). <i>Analytica Chimica Acta</i> , 2010 , 664, 27-33	6.6	9
38	Bagged k-nearest neighbours classification with uncertainty in the variables. <i>Analytica Chimica Acta</i> , 2009 , 646, 62-8	6.6	9
37	Calculation of the reliability of classification in discriminant partial least-squares binary classification. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2009 , 95, 122-128	3.8	114
36	Classification from microarray data using probabilistic discriminant partial least squares with reject option. <i>Talanta</i> , 2009 , 80, 321-8	6.2	14

35	Regression Diagnostics 2009 , 33-89		8
34	Multiway Data Analysis: Eigenvector-Based Methods 2009 , 365-409		
33	On the numerical stability of two widely used PLS algorithms. <i>Journal of Chemometrics</i> , 2008 , 22, 101-105.6		10
32	Calculation of the probability of correct classification in probabilistic bagged k-Nearest Neighbours. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2008 , 94, 51-59	3.8	3
31	Linear PLS regression to cope with interferences of major concomitants in the determination of antimony by ETAAS. <i>Journal of Analytical Atomic Spectrometry</i> , 2006 , 21, 61-68	3.7	15
30	Uncertainty estimation and figures of merit for multivariate calibration (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2006 , 78, 633-661	2.1	265
29	Application of non-negative matrix factorization combined with Fisher's linear discriminant analysis for classification of olive oil excitation-emission fluorescence spectra. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006 , 81, 94-106	3.8	36
28	Excitation-emission fluorescence spectroscopy combined with three-way methods of analysis as a complementary technique for olive oil characterization. <i>Journal of Agricultural and Food Chemistry</i> , 2005 , 53, 9319-28	5.7	38
27	Rapid detection of olive pomace oil adulteration in extra virgin olive oils from the protected denomination of origin Biurana using excitation-emission fluorescence spectroscopy and three-way methods of analysis. <i>Analytica Chimica Acta</i> , 2005 , 544, 143-152	6.6	105
26	Prediction of heterofullerene stabilities: a combined DFT and chemometric study of C56Pt2, C57Pt2 and C81Pt2. <i>Chemistry - A European Journal</i> , 2005 , 11, 2730-42	4.8	13
25	Quantification from highly drifted and overlapped chromatographic peaks using second-order calibration methods. <i>Journal of Chromatography A</i> , 2004 , 1035, 195-202	4.5	55
24	Graphical criterion for assessing trilinearity and selecting the optimal number of factors in the generalized rank annihilation method using liquid chromatography-diode array detection data. <i>Analytica Chimica Acta</i> , 2004 , 515, 23-30	6.6	10
23	Application of unfold principal component analysis and parallel factor analysis to the exploratory analysis of olive oils by means of excitation-emission matrix fluorescence spectroscopy. <i>Analytica Chimica Acta</i> , 2004 , 515, 75-85	6.6	112
22	Cluster analysis applied to the exploratory analysis of commercial spanish olive oils by means of excitation-emission fluorescence spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2004 , 52, 6673-9	5.7	42
21	Fuzzy logic for identifying pigments studied by Raman spectroscopy. <i>Applied Spectroscopy</i> , 2004 , 58, 848-54	3.1	10
20	Generalization of rank reduction problems with Wedderburn's formula. <i>Journal of Chemometrics</i> , 2003 , 17, 603-607	1.6	6
19	Second-order bilinear calibration for determining polycyclic aromatic compounds in marine sediments by solvent extraction and liquid chromatography with diode-array detection. <i>Analytica Chimica Acta</i> , 2003 , 498, 47-53	6.6	35
18	Using second-order calibration to identify and quantify aromatic sulfonates in water by high-performance liquid chromatography in the presence of coeluting interferences. <i>Journal of Chromatography A</i> , 2003 , 988, 277-84	4.5	25

17	Quantifying selectivity in spectrophotometric multicomponent analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2003 , 22, 352-361	14.6	28
16	Net analyte signal calculation for multivariate calibration. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2003 , 69, 123-136	3.8	91
15	Second-order bilinear calibration: the effects of vectorising the data matrices of the calibration set. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2002 , 63, 107-116	3.8	33
14	Transfer of multivariate calibration models: a review. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2002 , 64, 181-192	3.8	355
13	Limit of detection estimator for second-order bilinear calibration. <i>Analytica Chimica Acta</i> , 2002 , 451, 313-321	6.6	61
12	Time shift correction in second-order liquid chromatographic data with iterative target transformation factor analysis. <i>Analytica Chimica Acta</i> , 2002 , 470, 163-173	6.6	33
11	Iteratively reweighted generalized rank annihilation method. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2001 , 55, 67-90	3.8	21
10	Iteratively reweighted generalized rank annihilation method. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2001 , 55, 91-100	3.8	15
9	Improved calculation of the net analyte signal in inverse multivariate calibration. <i>Journal of Chemometrics</i> , 2001 , 15, 537-553	1.6	50
8	Reduction of Model Complexity by Orthogonalization with Respect to Non-Relevant Spectral Changes. <i>Applied Spectroscopy</i> , 2001 , 55, 708-714	3.1	12
7	Optimization of solid-phase microextraction conditions using a response surface methodology to determine organochlorine pesticides in water by gas chromatography and electron-capture detection. <i>Journal of Chromatography A</i> , 1999 , 844, 425-32	4.5	44
6	Detection and correction of biased results of individual analytes in multicomponent spectroscopic analysis. <i>Analytical Chemistry</i> , 1998 , 70, 1999-2007	7.8	18
5	Constructing D-optimal designs from a list of candidate samples. <i>TrAC - Trends in Analytical Chemistry</i> , 1997 , 16, 70-73	14.6	21
4	A graphical criterion to examine the quality of multicomponent analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 1997 , 16, 155-162	14.6	6
3	Assessing the validity of principal component regression models in different analytical conditions. <i>Analytica Chimica Acta</i> , 1997 , 337, 287-296	6.6	12
2	Figures of merit in multivariate calibration. Determination of four pesticides in water by flow injection analysis and spectrophotometric detection. <i>Analytica Chimica Acta</i> , 1997 , 348, 167-175	6.6	23
1	Selection of the best calibration sample subset for multivariate regression. <i>Analytical Chemistry</i> , 1996 , 68, 1565-71	7.8	33