

# Joan FerrÃ© Baldrich

## List of Publications by Year in descending order

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70  
papers

3,347  
citations

218381

26  
h-index

143772

57  
g-index

72  
all docs

72  
docs citations

72  
times ranked

3171  
citing authors

#	ARTICLE	IF	CITATIONS
1	Data fusion methodologies for food and beverage authentication and quality assessment – A review. <i>Analytica Chimica Acta</i> , 2015, 891, 1-14.	2.6	524
2	Transfer of multivariate calibration models: a review. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2002, 64, 181-192.	1.8	420
3	Uncertainty estimation and figures of merit for multivariate calibration (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2006, 78, 633-661.	0.9	309
4	Net analyte signal calculation for multivariate calibration. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2003, 69, 123-136.	1.8	260
5	Calculation of the reliability of classification in discriminant partial least-squares binary classification. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2009, 95, 122-128.	1.8	137
6	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.	2.6	126
7	Rapid detection of olive–pomace oil adulteration in extra virgin olive oils from the protected denomination of origin –Siurana– using excitation–emission fluorescence spectroscopy and three-way methods of analysis. <i>Analytica Chimica Acta</i> , 2005, 544, 143-152.	2.6	125
8	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, 115-119.	2.0	96
9	Biomonitoring exposure assessment to contemporary pesticides in a school children population of Spain. <i>Environmental Research</i> , 2014, 131, 77-85.	3.7	88
10	Olive oil sensory defects classification with data fusion of instrumental techniques and multivariate analysis (PLS-DA). <i>Food Chemistry</i> , 2016, 203, 314-322.	4.2	82
11	Limit of detection estimator for second-order bilinear calibration. <i>Analytica Chimica Acta</i> , 2002, 451, 313-321.	2.6	71
12	Quantification from highly drifted and overlapped chromatographic peaks using second-order calibration methods. <i>Journal of Chromatography A</i> , 2004, 1035, 195-202.	1.8	58
13	Improved calculation of the net analyte signal in inverse multivariate calibration. <i>Journal of Chemometrics</i> , 2001, 15, 537-553.	0.7	55
14	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, 6673-6679.	2.4	52
15	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.	1.8	49
16	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, 425-432.	1.8	47
17	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, 9319-9328.	2.4	47
18	Selection of the Best Calibration Sample Subset for Multivariate Regression. <i>Analytical Chemistry</i> , 1996, 68, 1565-1571.	3.2	41

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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.	2.6	41
20	Prediction of olive oil sensory descriptors using instrumental data fusion and partial least squares (PLS) regression. <i>Talanta</i> , 2016, 155, 116-123.	2.9	41
21	Time shift correction in second-order liquid chromatographic data with iterative target transformation factor analysis. <i>Analytica Chimica Acta</i> , 2002, 470, 163-173.	2.6	36
22	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.	1.8	34
23	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, 109-114.	2.0	33
24	Quantifying selectivity in spectrophotometric multicomponent analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2003, 22, 352-361.	5.8	32
25	Identification of olive oil sensory defects by multivariate analysis of mid infrared spectra. <i>Food Chemistry</i> , 2015, 187, 197-203.	4.2	30
26	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, 277-284.	1.8	27
27	Constructing D-optimal designs from a list of candidate samples. <i>TrAC - Trends in Analytical Chemistry</i> , 1997, 16, 70-73.	5.8	24
28	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.	2.6	24
29	ATR-MIR spectroscopy and multivariate analysis in alcoholic fermentation monitoring and lactic acid bacteria spoilage detection. <i>Food Control</i> , 2020, 109, 106947.	2.8	23
30	Detection and Correction of Biased Results of Individual Analytes in Multicomponent Spectroscopic Analysis. <i>Analytical Chemistry</i> , 1998, 70, 1999-2007.	3.2	21
31	Iteratively reweighted generalized rank annihilation method. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2001, 55, 67-90.	1.8	21
32	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.	1.6	21
33	Regression Diagnostics. , 2009, , 33-89.		21
34	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.	2.6	21
35	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.	1.3	20
36	Classification from microarray data using probabilistic discriminant partial least squares with reject option. <i>Talanta</i> , 2009, 80, 321-328.	2.9	19

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37	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.	2.9	19
38	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.	1.7	19
39	Prediction of Heterofullerene Stabilities: A Combined DFT and Chemometric Study of C56Pt2, C57Pt2 and C81Pt2. <i>Chemistry - A European Journal</i> , 2005, 11, 2730-2742.	1.7	16
40	Iteratively reweighted generalized rank annihilation method. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2001, 55, 91-100.	1.8	15
41	Determination of chemical properties in <i>Âcaliotâ™</i> ( <i>Allium cepa</i> L.) by near infrared spectroscopy and multivariate calibration. <i>Food Chemistry</i> , 2018, 262, 178-183.	4.2	15
42	Monitoring wine fermentation deviations using an ATR-MIR spectrometer and MSPC charts. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020, 201, 104011.	1.8	15
43	Assessing the validity of principal component regression models in different analytical conditions. <i>Analytica Chimica Acta</i> , 1997, 337, 287-296.	2.6	14
44	Reduction of Model Complexity by Orthogonalization with Respect to Non-Relevant Spectral Changes. <i>Applied Spectroscopy</i> , 2001, 55, 708-714.	1.2	14
45	On the numerical stability of two widely used PLS algorithms. <i>Journal of Chemometrics</i> , 2008, 22, 101-105.	0.7	12
46	Fundamentals of PARAFAC. <i>Data Handling in Science and Technology</i> , 2015, , 7-35.	3.1	12
47	Fuzzy Logic for Identifying Pigments Studied by Raman Spectroscopy. <i>Applied Spectroscopy</i> , 2004, 58, 848-854.	1.2	11
48	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.	2.6	10
49	Bagged k-nearest neighbours classification with uncertainty in the variables. <i>Analytica Chimica Acta</i> , 2009, 646, 62-68.	2.6	10
50	Multi-class classification with probabilistic discriminant partial least squares (p-DPLS). <i>Analytica Chimica Acta</i> , 2010, 664, 27-33.	2.6	10
51	Objective chemical fingerprinting of oil spills by partial least-squares discriminant analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2027-2037.	1.9	8
52	A graphical criterion to examine the quality of multicomponent analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 1997, 16, 155-162.	5.8	7
53	Outlier detection and ambiguity detection for microarray data in probabilistic discriminant partial least squares regression. <i>Journal of Chemometrics</i> , 2010, 24, 434-443.	0.7	7
54	Selectivity-relaxed classical and inverse least squares calibration and selectivity measures with a unified selectivity coefficient. <i>Journal of Chemometrics</i> , 2017, 31, e2925.	0.7	7

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55	Generalization of rank reduction problems with Wedderburn's formula. <i>Journal of Chemometrics</i> , 2003, 17, 603-607.	0.7	6
56	Improving the Commercial Value of the "CalÅšots"™ ( <i>Allium cepa</i> L.) Landrace: Influence of Genetic and Environmental Factors in Chemical Composition and Sensory Attributes. <i>Frontiers in Plant Science</i> , 2018, 9, 1465.	1.7	5
57	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.	0.7	5
58	Estimating Sensory Properties with Near-Infrared Spectroscopy: A Tool for Quality Control and Breeding of "CalÅšots"™ ( <i>Allium cepa</i> L.). <i>Agronomy</i> , 2020, 10, 828.	1.3	5
59	Partial Least-Squares Regression. <i>Metal Ions in Life Sciences</i> , 2013, , 280-347.	1.0	5
60	Calculation of the probability of correct classification in probabilistic bagged k-Nearest Neighbours. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2008, 94, 51-59.	1.8	4
61	Acrylic microspheres as drug-delivery systems: synthesis through <i>in situ</i> microemulsion photoinduced polymerization and characterization. <i>Polymer International</i> , 2013, 62, 304-309.	1.6	4
62	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.	2.9	4
63	Use of visible-near infrared spectroscopy to predict nutrient composition of poultry excreta. <i>Animal Feed Science and Technology</i> , 2022, 283, 115169.	1.1	4
64	Nutritional values of raw and cooked "calÅšots"™ ( <i>Allium cepa</i> L. resprouts), an expanding crop. <i>Journal of the Science of Food and Agriculture</i> , 2019, 99, 4985-4992.	1.7	3
65	Establishment of multivariate specifications for food commodities with discriminant partial least squares. <i>Talanta</i> , 2010, 83, 475-481.	2.9	2
66	Chemometrics analysis of insulin aggregation induced by an antiretroviral drug (AZT). <i>Chemometrics and Intelligent Laboratory Systems</i> , 2012, 118, 180-186.	1.8	1
67	Ordinary Multiple Linear Regression and Principal Components Regression. <i>Metal Ions in Life Sciences</i> , 2013, , 256-279.	1.0	1
68	Regression Diagnostics. , 2020, , 431-476.		1
69	Multiway Data Analysis: Eigenvector-Based Methods. , 2009, , 365-409.		0
70	Outlier detection for the Generalized Rank Annihilation Method in HPLC-DAD analysis. <i>Talanta</i> , 2011, 83, 1147-1157.	2.9	0