Joan FerrÃ© Baldrich

List of Publications by Year
in descending order

70 papers	3,347 citations	218677 26 h-index	144013 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 â€“ A review. Analytica Chimica Acta, 2015, 891, 1-14.	5.4	524
2	Transfer of multivariate calibration models: a review. Chemometrics and Intelligent Laboratory Systems, 2002, 64, 181-192.	3.5	420
3	Uncertainty estimation and figures of merit for multivariate calibration (IUPAC Technical Report). Pure and Applied Chemistry, 2006, 78, 633-661.	1.9	309
4	Net analyte signal calculation for multivariate calibration. Chemometrics and Intelligent Laboratory Systems, 2003, 69, 123-136.	3.5	260
5	Calculation of the reliability of classification in discriminant partial least-squares binary classification. Chemometrics and Intelligent Laboratory Systems, 2009, 95, 122-128.	3.5	137
6	Application of unfold principal component analysis and parallel factor analysis to the exploratory analysis of olive oils by means of excitationâ€“emission matrix fluorescence spectroscopy. Analytica Chimica Acta, 2004, 515, 75-85.	5.4	126
7	Rapid detection of oliveâ€“pomace oil adulteration in extra virgin olive oils from the protected denomination of origin â€œSiuranaâ€•using excitationâ€“emission fluorescence spectroscopy and three-way methods of analysis. Analytica Chimica Acta, 2005, 544, 143-152.	5.4	125
8	Rapid characterization of transgenic and non-transgenic soybean oils by chemometric methods using NIR spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 100, 115-119.	3.9	96
9	Biomonitoring exposure assessment to contemporary pesticides in a school children population of Spain. Environmental Research, 2014, 131, 77-85.	7.5	88
10	Olive oil sensory defects classification with data fusion of instrumental techniques and multivariate analysis (PLS-DA). Food Chemistry, 2016, 203, 314-322.	8.2	82
11	Limit of detection estimator for second-order bilinear calibration. Analytica Chimica Acta, 2002, 451, 313-321.	5.4	71
12	Quantification from highly drifted and overlapped chromatographic peaks using second-order calibration methods. Journal of Chromatography A, 2004, 1035, 195-202.	3.7	58
13	Improved calculation of the net analyte signal in inverse multivariate calibration. Journal of Chemometrics, 2001, 15, 537-553.	1.3	55
14	Cluster Analysis Applied to the Exploratory Analysis of Commercial Spanish Olive Oils by Means of Excitationâ^'Emission Fluorescence Spectroscopy. Journal of Agricultural and Food Chemistry, 2004, 52, 6673-6679.	5.2	52
15	Application of non-negative matrix factorization combined with Fisher's linear discriminant analysis for classification of olive oil excitationâ€“emission fluorescence spectra. Chemometrics and Intelligent Laboratory Systems, 2006, 81, 94-106.	3.5	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. Journal of Chromatography A, 1999, 844, 425-432.	3.7	47
17	Excitationâ^'Emission Fluorescence Spectroscopy Combined with Three-Way Methods of Analysis as a Complementary Technique for Olive Oil Characterization. Journal of Agricultural and Food Chemistry, 2005, 53, 9319-9328.	5.2	47
18	Selection of the Best Calibration Sample Subset for Multivariate Regression. Analytical Chemistry, 1996, 68, 1565-1571.	6.5	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. Analytica Chimica Acta, 2003, 498, 47-53.	5.4	41
20	Prediction of olive oil sensory descriptors using instrumental data fusion and partial least squares (PLS) regression. Talanta, 2016, 155, 116-123.	5.5	41
21	Time shift correction in second-order liquid chromatographic data with iterative target transformation factor analysis. Analytica Chimica Acta, 2002, 470, 163-173.	5.4	36
22	Second-order bilinear calibration: the effects of vectorising the data matrices of the calibration set. Chemometrics and Intelligent Laboratory Systems, 2002, 63, 107-116.	3.5	34
23	Classification of edible oils and modeling of their physico-chemical properties by chemometric methods using mid-IR spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 100, 109-114.	3.9	33
24	Quantifying selectivity in spectrophotometric multicomponent analysis. TrAC - Trends in Analytical Chemistry, 2003, 22, 352-361.	11.4	32
25	Identification of olive oil sensory defects by multivariate analysis of mid infrared spectra. Food Chemistry, 2015, 187, 197-203.	8.2	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. Journal of Chromatography A, 2003, 988, 277-284.	3.7	27
27	Constructing D-optimal designs from a list of candidate samples. TrAC - Trends in Analytical Chemistry, 1997, 16, 70-73.	11.4	24
28	Figures of merit in multivariate calibration. Determination of four pesticides in water by flow injection analysis and spectrophotometric detection. Analytica Chimica Acta, 1997, 348, 167-175.	5.4	24
29	ATR-MIR spectroscopy and multivariate analysis in alcoholic fermentation monitoring and lactic acid bacteria spoilage detection. Food Control, 2020, 109, 106947.	5.5	23
30	Detection and Correction of Biased Results of Individual Analytes in Multicomponent Spectroscopic Analysis. Analytical Chemistry, 1998, 70, 1999-2007.	6.5	21
31	Iteratively reweighted generalized rank annihilation method. Chemometrics and Intelligent Laboratory Systems, 2001, 55, 67-90.	3.5	21
32	Linear PLS regression to cope with interferences of major concomitants in the determination of antimony by ETAAS. Journal of Analytical Atomic Spectrometry, 2006, 21, 61-68.	3.0	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. Analytica Chimica Acta, 2013, 778, 9-14.	5.4	21
35	Classification of soil samples based on Raman spectroscopy and X-ray fluorescence spectrometry combined with chemometric methods and variable selection. Analytical Methods, 2014, 6, 8930-8939.	2.7	20
36	Classification from microarray data using probabilistic discriminant partial least squares with reject option. Talanta, 2009, 80, 321-328.	5.5	19

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37	A novel approach to discriminate transgenic from non-transgenic soybean oil using FT-MIR and chemometrics. Food Research International, 2015, 67, 206-211.	6.2	19
38	Process Monitoring of Moisture Content and Mass Transfer Rate in a Fluidised Bed with a Low Cost Inline MEMS NIR Sensor. Pharmaceutical Research, 2020, 37, 84.	3.5	19
39	Prediction of Heterofullerene Stabilities: A Combined DFT and Chemometric Study of C56Pt2, C57Pt2and C81Pt2. Chemistry - A European Journal, 2005, 11, 2730-2742.	3.3	16
40	Iteratively reweighted generalized rank annihilation method. Chemometrics and Intelligent Laboratory Systems, 2001, 55, 91-100.	3.5	15
41	Determination of chemical properties in â€˜calÃ§otâ€™ (Allium cepa L.) by near infrared spectroscopy and multivariate calibration. Food Chemistry, 2018, 262, 178-183.	8.2	15
42	Monitoring wine fermentation deviations using an ATR-MIR spectrometer and MSPC charts. Chemometrics and Intelligent Laboratory Systems, 2020, 201, 104011.	3.5	15
43	Assessing the validity of principal component regression models in different analytical conditions. Analytica Chimica Acta, 1997, 337, 287-296.	5.4	14
44	Reduction of Model Complexity by Orthogonalization with Respect to Non-Relevant Spectral Changes. Applied Spectroscopy, 2001, 55, 708-714.	2.2	14
45	On the numerical stability of two widely used PLS algorithms. Journal of Chemometrics, 2008, 22, 101-105.	1.3	12
46	Fundamentals of PARAFAC. Data Handling in Science and Technology, 2015, , 7-35.	3.1	12
47	Fuzzy Logic for Identifying Pigments Studied by Raman Spectroscopy. Applied Spectroscopy, 2004, 58, 848-854.	2.2	11
48	Graphical criterion for assessing trilinearity and selecting the optimal number of factors in the generalized rank annihilation method using liquid chromatographyâ€“diode array detection data. Analytica Chimica Acta, 2004, 515, 23-30.	5.4	10
49	Bagged k-nearest neighbours classification with uncertainty in the variables. Analytica Chimica Acta, 2009, 646, 62-68.	5.4	10
50	Multi-class classification with probabilistic discriminant partial least squares (p-DPLS). Analytica Chimica Acta, 2010, 664, 27-33.	5.4	10
51	Objective chemical fingerprinting of oil spills by partial least-squares discriminant analysis. Analytical and Bioanalytical Chemistry, 2012, 403, 2027-2037.	3.7	8
52	A graphical criterion to examine the quality of multicomponent analysis. TrAC - Trends in Analytical Chemistry, 1997, 16, 155-162.	11.4	7
53	Outlier detection and ambiguity detection for microarray data in probabilistic discriminant partial least squares regression. Journal of Chemometrics, 2010, 24, 434-443.	1.3	7
54	Selectivityâ€relaxed classical and inverse least squares calibration and selectivity measures with a unified selectivity coefficient. Journal of Chemometrics, 2017, 31, e2925.	1.3	7

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55	Generalization of rank reduction problems with Wedderburn's formula. Journal of Chemometrics, 2003, 17, 603-607.	1.3	6
56	Improving the Commercial Value of the â€˜CalÃ§otâ€™ (Allium cepa L.) Landrace: Influence of Genetic and Environmental Factors in Chemical Composition and Sensory Attributes. Frontiers in Plant Science, 2018, 9, 1465.	3.6	5
57	Early detection of undesirable deviations in must fermentation using a portable FTIRâ€ATR instrument and multivariate analysis. Journal of Chemometrics, 2019, 33, e3162.	1.3	5
58	Estimating Sensory Properties with Near-Infrared Spectroscopy: A Tool for Quality Control and Breeding of â€˜CalÃ§otsâ€™ (Allium cepa L.). Agronomy, 2020, 10, 828.	3.0	5
59	Partial Leastâ€Squares Regression. Metal Ions in Life Sciences, 2013, , 280-347.	1.0	5
60	Calculation of the probability of correct classification in probabilistic bagged k-Nearest Neighbours. Chemometrics and Intelligent Laboratory Systems, 2008, 94, 51-59.	3.5	4
61	Acrylic microspheres as drugâ€delivery systems: synthesis through in situ microemulsion photoinduced polymerization and characterization. Polymer International, 2013, 62, 304-309.	3.1	4
62	Acid number, viscosity and end-point detection in a multiphase high temperature polymerisation process using an online miniaturised MEMS Fabry-PÃ©rot interferometer. Talanta, 2021, 224, 121735.	5.5	4
63	Use of visible-near infrared spectroscopy to predict nutrient composition of poultry excreta. Animal Feed Science and Technology, 2022, 283, 115169.	2.2	4
64	Nutritional values of raw and cooked â€˜calÃ§otsâ€™ (Allium cepa L. resprouts), an expanding crop. Journal of the Science of Food and Agriculture, 2019, 99, 4985-4992.	3.5	3
65	Establishment of multivariate specifications for food commodities with discriminant partial least squares. Talanta, 2010, 83, 475-481.	5.5	2
66	Chemometrics analysis of insulin aggregation induced by an antiretroviral drug (AZT). Chemometrics and Intelligent Laboratory Systems, 2012, 118, 180-186.	3.5	1
67	Ordinary Multiple Linear Regression and Principal Components Regression. Metal Ions in Life Sciences, 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. Talanta, 2011, 83, 1147-1157.	5.5	0