Jez Braga

List of Publications by Year
in descending order

60 papers	1,596 citations	304602 22 h-index	302012 39 g-index
60 all docs	60 docs citations	60 times ranked	1622 citing authors

#	Article	IF	Citations
1	Variable Selection, Outlier Detection, and Figures of Merit Estimation in a Partial Least-Squares Regression Multivariate Calibration Model. A Case Study for the Determination of Quality Parameters in the Alcohol Industry by Near-Infrared Spectroscopy. Journal of Agricultural and Food Chemistry, 2007, 55, 8331-8338.	2.4	123
2	Comparison of univariate and multivariate calibration for the determination of micronutrients in pellets of plant materials by laser induced breakdown spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 66-74.	1.5	114
3	Near infrared spectroscopy (NIRS) as a potential tool for monitoring trade of similar woods: Discrimination of true mahogany, cedar, andiroba, and curupixÃ¡. Holzforschung, 2011, 65, 73-80.	0.9	97
4	Discrimination of whisky brands and counterfeit identification by UVâ€"Vis spectroscopy and multivariate data analysis. Food Chemistry, 2017, 229, 142-151.	4.2	90
5	Development and analytical validation of a multivariate calibration method for determination of amoxicillin in suspension formulations by near infrared spectroscopy. Talanta, 2012, 89, 342-351.	2.9	74
6	Optimization and validation of a LIBS method for the determination of macro and micronutrients in sugar cane leaves. Journal of Analytical Atomic Spectrometry, 2010, 25, 1453.	1.6	64
7	The use of near Infrared Spectroscopy to Identify solid wood Specimens of Swietenia Macrophylla0 (Cites Appendix II). IAWA Journal, 2011, 32, 285-296.	2.7	62
8	Non-destructive identification of different types and brands of blue pen inks in cursive handwriting by visible spectroscopy and PLS-DA for forensic analysis. Microchemical Journal, 2014, 116, 235-243.	2.3	61
9	Estado da arte de figuras de mÃ©rito em calibraÃ§Ã£o multivariada. Quimica Nova, 2009, 32, 1278-1287.	0.3	59
10	Evaluation of laser induced breakdown spectroscopy for cadmium determination in soils. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 1073-1078.	1.5	53
11	Development and validation of a chemometric method for direct determination of hydrochlorothiazide in pharmaceutical samples by diffuse reflectance near infrared spectroscopy. Microchemical Journal, 2013, 109, 158-164.	2.3	52
12	Determination of viscosity index in lubricant oils by infrared spectroscopy and PLSR. Fuel, 2014, 120, 171-178.	3.4	46
13	Discrimination and quantification of cocaine and adulterants in seized drug samples by infrared spectroscopy and PLSR. Forensic Science International, 2015, 257, 297-306.	1.3	44
14	NIRS IDENTIFICATION OF SWIETENIA MACROPHYLLA IS ROBUST ACROSS SPECIMENS FROM 27 COUNTRIES. IAWA Journal, 2016, 37, 420-430.	2.7	44
15	Determination of pesticides and metabolites in wine by high performance liquid chromatography and second-order calibration methods. Journal of Chromatography A, 2007, 1148, 200-210.	1.8	42
16	Validation of multivariate calibration models in the determination of sugar cane quality parameters by near infrared spectroscopy. Journal of the Brazilian Chemical Society, 2007, 18, .	0.6	40
17	Figures of merit for the determination of the polymorphic purity of carbamazepine by infrared spectroscopy and multivariate calibration. Journal of Pharmaceutical Sciences, 2004, 93, 2124-2134.	1.6	39
18	Potential field-deployable NIRS identification of seven Dalbergia species listed by CITES. Wood Science and Technology, 2018, 52, 1411-1427.	1.4	38

#	ARTICLE	IF	CITATIONS
19	Assessment of total phenols and extractives of mahogany wood by near infrared spectroscopy (NIRS). Holzforschung, 2013, 67, 1-8.	0.9	33
20	Determination of vegetable oils and fats adulterants in diesel oil by high performance liquid chromatography and multivariate methods. Journal of Chromatography A, 2012, 1225, 150-157.	1.8	32
21	Toxic Metals (Pb and Cd) and Their Respective Antagonists (Ca and Zn) in Infant Formulas and Milk Marketed in Brasilia, Brazil. International Journal of Environmental Research and Public Health, 2010, 7, 4062-4077.	1.2	28
22	Determination of the country of origin of true mahogany (<i>Swietenia macrophylla</i> King) wood in five Latin American countries using handheld NIR devices and multivariate data analysis. Holzforschung, 2018, 72, 521-530.	0.9	26
23	Near infrared hyperspectral imaging and MCR-ALS applied for mapping chemical composition of the wood specie Swietenia Macrophylla King (Mahogany) at microscopic level. Microchemical Journal, 2016, 124, 356-363.	2.3	22
24	Identification of NBOMe and NBOH in blotter papers using a handheld NIR spectrometer and chemometric methods. Microchemical Journal, 2019, 144, 151-158.	2.3	21
25	Application of genetic algorithm for selection of variables for the BLLS method applied to determination of pesticides and metabolites in wine. Analytica Chimica Acta, 2007, 595, 51-58.	2.6	19
26	Cocaine and adulterants analysis in seized drug samples by infrared spectroscopy and MCR-ALS. Forensic Science International, 2018, 290, 169-177.	1.3	19
27	Evaluation of absorption kinetics of oxygen scavenger sachets using response surface methodology. Packaging Technology and Science, 2010, 23, 351-361.	1.3	18
28	Correlation of Cocaine Hydrochloride Samples Seized in Brazil Based on Determination of Residual Solvents: An Innovative Chemometric Method for Determination of Linkage Thresholds. Analytical Chemistry, 2013, 85, 2457-2464.	3.2	17
29	Determination of chronological order of crossed lines of ballpoint pens by hyperspectral image in the visible region and multivariate analysis. Forensic Science International, 2019, 296, 91-100.	1.3	16
30	Validação de modelos de calibração multivariada: uma aplicação na determinação de pureza polimórfica de carbamazepina por espectroscopia no infravermelho próximo. Quimica Nova, 2004, 27, 1004-1011.	0.3	14
31	Multivariate curve resolution of pH gradient flow injection mixture analysis with correction of the Schlieren effect. Analyst, The, 2008, 133, 774.	1.7	14
32	Rapid Purity Determination of Copaiba Oils by a Portable NIR Spectrometer and PLSR. Food Analytical Methods, 2018, 11, 1867-1877.	1.3	14
33	Authenticity Identification of Copaiba Oil Using a Handheld NIR Spectrometer and DD-SIMCA. Food Analytical Methods, 2021, 14, 865-872.	1.3	13
34	Discrimination of white automotive paint samples using ATR-FTIR and PLS-DA for forensic purposes. Talanta, 2022, 240, 123154.	2.9	12
35	Evaluation of the number of factors needed for residual bilinearization in BLLS and UPLS models to achieve the second-order advantage. Chemometrics and Intelligent Laboratory Systems, 2010, 100, 99-109.	1.8	10
36	Demystifying "oxi" cocaine: Chemical profiling analysis of a "new Brazilian drug" from Acre State. Forensic Science International, 2012, 221, 113-119.	1.3	10

#	Article	IF	Citations
37	Error Covariance Penalized Regression: A novel multivariate model combining penalized regression with multivariate error structure. Analytica Chimica Acta, 2018, 1011, 20-27.	2.6	10
38	Document ink dye age estimation by direct injection-mass spectrometry and correlation analysis. Microchemical Journal, 2019, 147, 1123-1132.	2.3	10
39	Implications of measurement error structure on the visualization of multivariate chemical data: hazards and alternatives. Canadian Journal of Chemistry, 2018, 96, 738-748.	0.6	8
40	Identification of Synthetic Drugs on Seized Blotter Papers Using ATR-FTIR and PLS-DA: Routine Application in a Forensic Laboratory. Journal of the Brazilian Chemical Society, 0, , .	0.6	8
41	Identification of mahogany sliced veneer using handheld near-infrared spectroscopy device andÂmultivariate data analysis. IAWA Journal, 2021, 42, 336-347.	0.5	8
42	Correction of the moisture variation in wood NIR spectra for species identification using EPO and soft PLS2-DA. Microchemical Journal, 2021, 171, 106839.	2.3	8
43	Raman spectroscopy of fingerprints and chemometric analysis for forensic sex determination in humans. Forensic Chemistry, 2022, 27, 100395.	1.7	8
44	Thermal diesel-like analysis. Journal of Thermal Analysis and Calorimetry, 2012, 110, 865-872.	2.0	7
45	Optimization of a saccharin molecularly imprinted solid-phase extraction procedure and evaluation by MIR hyperspectral imaging for analysis of diet tea by HPLC. Food Chemistry, 2022, 367, 130732.	4.2	7
46	AvaliaÃ§Ã£o de espectrÃ´metro NIR portÃ¡til e PLS-DA para a discriminaÃ§Ã£o de seis espÃ©cies similares de madeira amazÃ´nicas. Quimica Nova, 0, , .	0.3	7
47	Discrimination of Black Pen Inks on Writing Documents Using Visible Reflectance Spectroscopy and PLS-DA. Journal of the Brazilian Chemical Society, 2014, , .	0.6	6
48	Maximum likelihood unfolded principal component regression with residual bilinearization (MLU-PCR/RBL) for second-order multivariate calibration. Chemometrics and Intelligent Laboratory Systems, 2017, 170, 51-57.	1.8	6
49	Exploratory Analysis of the Distribution of Lignin and Cellulose in Woods by Raman Imaging and Chemometrics. Journal of the Brazilian Chemical Society, 2015, , .	0.6	5
50	Optimization of the Functional Characteristics of Cleaning Products Through Experimental Design. Journal of Surfactants and Detergents, 2017, 20, 467-481.	1.0	4
51	Detection of Counterfeit DuratestonÂ® Using Fourier Transform Infrared Spectroscopy and Partial Least Squares - Discriminant Analysis. Journal of the Brazilian Chemical Society, 0, , .	0.6	3
52	Profile of explosives's use in <scp>ATMs</scp>/cash safes robberies in Brazil. Journal of Forensic Sciences, 2022, 67, 1441-1449.	0.9	3
53	Comparison of variance sources and confidence limits in two PLSR models for determination of the polymorphic purity of carbamazepine. Chemometrics and Intelligent Laboratory Systems, 2006, 80, 50-56.	1.8	2
54	Quantification of Cocaine Hydrochloride in Seized Drug Samples by Infrared Spectroscopy and PLSR. Journal of the Brazilian Chemical Society, 2014, , .	0.6	2

#	Article	IF	Citations
55	Exploratory Analysis of Automotive Diesel Fuel Stability Test Methods by Infrared Spectroscopy and Parallel Factor Analysis. Energy & Fuels, 2019, 33, 6170-6176.	2.5	1
56	Chemometrics in Forensics. , 2020, , 113-148.		1
57	DISCRIMINATION BETWEEN SIMILAR WOODS BY MOLECULAR FLUORESCENCE AND PARTIAL LEAST SQUARES. Quimica Nova, 2015, , .	0.3	1
58	Chemometrics in Bioanalytical Chemistry. , 2022, , 497-541.		1
59	Synthesis and evaluation of hybrid molecularly imprinted polymers for selective extraction of saccharin in aqueous medium. Journal of Polymer Research, 2021, 28, 1.	1.2	0
60	CLASSIFICATION OF MINERAL WATERS BASED ON DIGITAL IMAGES ACQUIRED BY SMARTPHONES. Quimica Nova, 2016, , .	0.3	0