

# Marco F Ferro

## List of Publications by Citations

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109  
papers

1,827  
citations

23  
h-index

37  
g-index

122  
ext. papers

2,116  
ext. citations

3.6  
avg, IF

4.95  
L-index

#	Paper	IF	Citations
109	Least-squares support vector machines and near infrared spectroscopy for quantification of common adulterants in powdered milk. <i>Analytica Chimica Acta</i> , <b>2006</b> , 579, 25-32	6.6	220
108	Development of methodology for identification the nature of the polyphenolic extracts by FTIR associated with multivariate analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2016</b> , 153, 94-101	4.4	107
107	Simultaneous determination of quality parameters of biodiesel/diesel blends using HATR-FTIR spectra and PLS, iPLS or siPLS regressions. <i>Fuel</i> , <b>2011</b> , 90, 701-706	7.1	94
106	Classification of biomass through their pyrolytic bio-oil composition using FTIR and PCA analysis. <i>Industrial Crops and Products</i> , <b>2018</b> , 111, 856-864	5.9	90
105	Films based on neutralized chitosan citrate as innovative composition for cosmetic application. <i>Materials Science and Engineering C</i> , <b>2016</b> , 67, 115-124	8.3	47
104	Profiling cocaine by ATR-FTIR. <i>Forensic Science International</i> , <b>2015</b> , 246, 65-71	2.6	45
103	Total Acid Number Determination in Residues of Crude Oil Distillation Using ATR-FTIR and Variable Selection by Chemometric Methods. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 5474-5478	4.1	41
102	Classification of yerba mate ( <i>Ilex paraguariensis</i> ) according to the country of origin based on element concentrations. <i>Microchemical Journal</i> , <b>2014</b> , 117, 164-171	4.8	39
101	Total sulfur determination in residues of crude oil distillation using FT-IR/ATR and variable selection methods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2012</b> , 89, 82-74	4.4	38
100	Ceramer coatings from castor oil or epoxidized castor oil and tetraethoxysilane. <i>JAOCS, Journal of the American Oil Chemists Society</i> , <b>2006</b> , 83, 147-151	1.8	36
99	Fourier transform infrared spectroscopy (FTIR) and multivariate analysis for identification of different vegetable oils used in biodiesel production. <i>Sensors</i> , <b>2013</b> , 13, 4258-71	3.8	33
98	Simultaneous determination of sulphamethoxazole and trimethoprim in powder mixtures by attenuated total reflection-Fourier transform infrared and multivariate calibration. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2009</b> , 49, 800-5	3.5	33
97	Fuel biodegradation and molecular characterization of microbial biofilms in stored diesel/biodiesel blend B10 and the effect of biocide. <i>International Biodeterioration and Biodegradation</i> , <b>2014</b> , 95, 346-355	4.8	32
96	Near infrared spectroscopy combined with chemometrics for growth stage classification of cannabis cultivated in a greenhouse from seized seeds. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2017</b> , 173, 318-323	4.4	32
95	A rapid and non-invasive method for the classification of natural tannin extracts by near-infrared spectroscopy and PLS-DA. <i>Analytical Methods</i> , <b>2016</b> , 8, 644-649	3.2	31
94	Point-of-use electroanalytical platform based on homemade potentiostat and smartphone for multivariate data processing. <i>Electrochimica Acta</i> , <b>2016</b> , 219, 170-177	6.7	31
93	Seized cannabis seeds cultivated in greenhouse: A chemical study by gas chromatography-mass spectrometry and chemometric analysis. <i>Science and Justice - Journal of the Forensic Science Society</i> , <b>2016</b> , 56, 35-41	2	30

92	Horizontal attenuated total reflection applied to simultaneous determination of ash and protein contents in commercial wheat flour. <i>Analytica Chimica Acta</i> , <b>2005</b> , 540, 411-415	6.6	30
91	Attenuated total reflectance with Fourier transform infrared spectroscopy (ATR/FTIR) and different PLS Algorithms for simultaneous determination of clavulanic acid and amoxicillin in powder pharmaceutical formulation. <i>Journal of the Brazilian Chemical Society</i> , <b>2011</b> , 22, 1903-1912	1.5	28
90	Methods of multivariate analysis of NIR reflectance spectra for classification of yerba mate. <i>Analytical Methods</i> , <b>2014</b> , 6, 7621-7627	3.2	26
89	Detection of the origin of Brazilian wines based on the determination of only four elements using high-resolution continuum source flame AAS. <i>Talanta</i> , <b>2013</b> , 111, 147-55	6.2	26
88	Non-destructive method for determination of hydroxyl value of soybean polyol by LS-SVM using HATR/FT-IR. <i>Analytica Chimica Acta</i> , <b>2007</b> , 595, 114-9	6.6	25
87	Quantification of Lactobacillus in fermented milk by multivariate image analysis with least-squares support-vector machines. <i>Analytical and Bioanalytical Chemistry</i> , <b>2007</b> , 387, 1105-12	4.4	24
86	Toxic and nutrient elements in yerba mate ( <i>Ilex paraguariensis</i> ). <i>Food Additives and Contaminants: Part B Surveillance</i> , <b>2015</b> , 8, 215-20	3.3	23
85	Determination of the Hydroxyl Value of Soybean Polyol by Attenuated Total Reflectance/Fourier Transform Infrared Spectroscopy. <i>JAOCS, Journal of the American Oil Chemists Society</i> , <b>2007</b> , 84, 503-508	1.8	22
84	Ultraviolet spectroscopy and chemometrics for the identification of vegetable tannins. <i>Industrial Crops and Products</i> , <b>2016</b> , 91, 279-285	5.9	22
83	Direct determination of tannins in <i>Acacia mearnsii</i> bark using near-infrared spectroscopy. <i>Analytical Methods</i> , <b>2014</b> , 6, 8299-8305	3.2	21
82	Monitoring of efficacy of antimicrobial products during 60 days storage simulation of diesel (B0), biodiesel (B100) and blends (B7 and B10). <i>Fuel</i> , <b>2013</b> , 112, 153-162	7.1	21
81	LS-SVM: uma nova ferramenta quimiométrica para regressão multivariada. Comparação de modelos de regressão LS-SVM e PLS na quantificação de adulterantes em leite empregando NIR. <i>Química Nova</i> , <b>2007</b> , 30, 852-859	1.6	21
80	Microbial community composition in Brazilian stored diesel fuel of varying sulfur content, using high-throughput sequencing. <i>Fuel</i> , <b>2017</b> , 189, 340-349	7.1	20
79	Extraction method based on emulsion breaking for the determination of Cu, Fe and Pb in Brazilian automotive gasoline samples by high-resolution continuum source flame atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2018</b> , 142, 62-67	3.1	19
78	Rapid Determination of Ethanol in Sugarcane Spirit Using Partial Least Squares Regression Embedded in Smartphone. <i>Food Analytical Methods</i> , <b>2018</b> , 11, 1951-1957	3.4	19
77	A New Tool for Interpretation of Thermal Stability of Raw Milk by Means of the Alizarol Test Using a PLS Model on a Mobile Device. <i>Food Analytical Methods</i> , <b>2018</b> , 11, 2022-2028	3.4	17
76	Chemical and microbial storage stability studies and shelf life determinations of commercial Brazilian biodiesels stored in carbon steel containers in subtropical conditions. <i>Fuel</i> , <b>2019</b> , 236, 993-1007	7.1	17
75	Multivariate optimization for cloud point extraction and determination of lanthanides. <i>Analytical Methods</i> , <b>2012</b> , 4, 2809	3.2	16

74	Element selection and concentration analysis for classifying South America wine samples according to the country of origin. <i>Computers and Electronics in Agriculture</i> , <b>2018</b> , 150, 33-40	6.5	15
73	Scott test evaluation by multivariate image analysis in cocaine samples. <i>Microchemical Journal</i> , <b>2016</b> , 127, 87-93	4.8	15
72	Green method by diffuse reflectance infrared spectroscopy and spectral region selection for the quantification of sulphamethoxazole and trimethoprim in pharmaceutical formulations. <i>Anais Da Academia Brasileira De Ciencias</i> , <b>2016</b> , 88, 1-15	1.4	15
71	Determination of cocaine and its main adulterants in seized drugs from Rio Grande do Sul, Brazil, by a Doehlert optimized LC-DAD method. <i>Analytical Methods</i> , <b>2016</b> , 8, 5212-5217	3.2	13
70	Chemical profiling and classification of cannabis through electrospray ionization coupled to Fourier transform ion cyclotron resonance mass spectrometry and chemometrics. <i>Analytical Methods</i> , <b>2017</b> , 9, 4070-4081	3.2	13
69	Biodiesel blend (B10) treated with a multifunctional additive (biocide) under simulated stored conditions: a field and lab scale monitoring. <i>Biofuel Research Journal</i> , <b>2017</b> , 4, 627-636	13.9	12
68	Pseudallescheria boydii and Meyerozyma guilliermondii: behavior of deteriorogenic fungi during simulated storage of diesel, biodiesel, and B10 blend in Brazil. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 30410-30424	5.1	12
67	Effect of SiCl <sub>4</sub> on the preparation of functionalized mixed-structure silica from monodisperse sol-gel silica nanoparticles. <i>Chemical Engineering Journal</i> , <b>2016</b> , 292, 233-245	14.7	11
66	Growth of Paecilomyces variotii in B0 (diesel), B100 (biodiesel) and B7 (blend), degradation and molecular detection. <i>Brazilian Journal of Biology</i> , <b>2015</b> , 75, 541-7	1.5	11
65	Comparison between counterfeit and authentic medicines: A novel approach using differential scanning calorimetry and hierarchical cluster analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2019</b> , 166, 304-309	3.5	10
64	Environmentally Friendly Determination of Quality Parameters of Biodiesel/Diesel Blends Using Fourier Transform Infrared Spectra. <i>JAACS, Journal of the American Oil Chemists Society</i> , <b>2015</b> , 92, 309-315	1.8	10
63	Multicriteria wavenumber selection in cocaine classification. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2015</b> , 115, 562-9	3.5	10
62	Wavenumber selection method to determine the concentration of cocaine and adulterants in cocaine samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2018</b> , 152, 120-127	3.5	10
61	Biodegradation potential of Serratiamarcescens for diesel/biodiesel blends. <i>International Biodeterioration and Biodegradation</i> , <b>2016</b> , 110, 141-146	4.8	10
60	Multivariate optimization for extraction of pyrethroids in milk and validation for GC-ECD and CG-MS/MS analysis. <i>International Journal of Environmental Research and Public Health</i> , <b>2014</b> , 11, 11421-37	4.6	10
59	Determina de umidade em cafu usando espectroscopia NIR e regress multivariada. <i>Food Science and Technology</i> , <b>2008</b> , 28,	2	10
58	Wavelength selection framework for classifying food and pharmaceutical samples into multiple classes. <i>Journal of Chemometrics</i> , <b>2016</b> , 30, 346-353	1.6	10
57	Authentication of yerba mate according to the country of origin by using Fourier transform infrared (FTIR) associated with chemometrics. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , <b>2015</b> , 32, 1215-22	3.2	9

56	Simultaneous diffuse reflectance infrared determination of clavulanic acid and amoxicillin using multivariate calibration techniques. <i>Drug Testing and Analysis</i> , <b>2012</b> , 4, 500-6	3.5	9
55	Determina de aar total em cafru por espectroscopia no infravermelho prximo e regress por mimos quadrados parciais. <i>Quimica Nova</i> , <b>2007</b> , 30, 346-350	1.6	9
54	PhotoMetrix: An Application for Univariate Calibration and Principal Components Analysis Using Colorimetry on Mobile Devices. <i>Journal of the Brazilian Chemical Society</i> , <b>2016</b> ,	1.5	9
53	A non-destructive, rapid and inexpensive methodology based on digital images for the classification of natural tannin extracts. <i>RSC Advances</i> , <b>2016</b> , 6, 32358-32364	3.7	9
52	Fast, cheap and easy routine quantification method for atrazine and its transformation products in water matrixes using a DLLME-GC/MS method. <i>Analytical Methods</i> , <b>2018</b> , 10, 5447-5452	3.2	9
51	HATRFTIR wavenumber selection for predicting biodiesel/diesel blends flash point. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2015</b> , 145, 1-6	3.8	8
50	PhotoMetrix and colorimetric image analysis using smartphones. <i>Journal of Chemometrics</i> , <b>2020</b> , 34, e3251	1.6	8
49	An LC-ESI-MS/MS method for residues of fluoroquinolones, sulfonamides, tetracyclines and trimethoprim in feedingstuffs: validation and surveillance. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , <b>2018</b> , 35, 1975-1989	3.2	8
48	Determination of intrinsic viscosity of poly(ethylene terephthalate) using infrared spectroscopy and multivariate calibration method. <i>Talanta</i> , <b>2006</b> , 69, 643-9	6.2	8
47	Determina simultnea dos teores de cinza e protea em farinha de trigo empregando NIR-PLS e DRIFT-PLS. <i>Food Science and Technology</i> , <b>2004</b> , 24, 333-340	2	8
46	Interval importance index to select relevant ATR-FTIR wavenumber Intervals for falsified drug classification. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2018</b> , 158, 494-503	3.5	8
45	A genetic algorithm-based framework for wavelength selection on sample categorization. <i>Drug Testing and Analysis</i> , <b>2017</b> , 9, 1172-1181	3.5	7
44	Total dissolved iron and hydrogen peroxide determination using the PhotoMetrixPRO application: A portable colorimetric analysis tool for controlling important conditions in the solar photo-Fenton process. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 378, 120740	12.8	7
43	Influence of Monoterpenes in Biological Activities of (Spreng.) Mez Essential Oils. <i>Biomolecules</i> , <b>2019</b> , 9,	5.9	7
42	A non-equidistant wavenumber interval selection approach for classifying diesel/biodiesel samples. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2017</b> , 167, 171-178	3.8	7
41	Development of an inexpensive, practical and non-destructive methodology based on digital images from a scanner for the classification of commercial tannins from <i>Acacia mearnsii</i> . <i>Analytical Methods</i> , <b>2017</b> , 9, 3977-3982	3.2	6
40	Rapid discrimination of natural polyphenols (vegetable tannins) from different plants by molecular spectroscopy and PLS-DA. <i>Analytical Methods</i> , <b>2018</b> , 10, 968-974	3.2	6
39	Comparison of Cocaine/Crack Biomarkers Concentrations in Oral Fluid, Urine and Plasma Simultaneously Collected From Drug Users. <i>Journal of Analytical Toxicology</i> , <b>2018</b> , 42, 69-76	2.9	6

38	Structural discrimination of nanosilica particles and mixed-structure silica by multivariate analysis applied to SAXS profiles in combination with FT-IR spectroscopy. <i>RSC Advances</i> , <b>2016</b> , 6, 72306-72316	3.7	6
37	Effect of Sulfur Content on Microbial Composition and Biodegradation of a Brazilian Diesel and Biodiesel Blend (B10). <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 12305-12316	4.1	6
36	CHEMOSTAT: EXPLORATORY MULTIVARIATE DATA ANALYSIS SOFTWARE. <i>Quimica Nova</i> , <b>2015</b> ,	1.6	6
35	Effects of winemaking on Marselan red wines: volatile compounds and sensory aspects. <i>Ciencia E Tecnica Vitivinicola</i> , <b>2020</b> , 35, 63-75	1	6
34	Simultaneous determination of sulfur, nitrogen and ash for vegetable tannins using ATR-FTIR spectroscopy and multivariate regression. <i>Microchemical Journal</i> , <b>2019</b> , 149, 103994	4.8	5
33	Computer-vision based second-order (kinetic-color) data generation: arsenic quantitation in natural waters. <i>Microchemical Journal</i> , <b>2020</b> , 157, 104916	4.8	5
32	Identification of Possible Milk Adulteration Using Physicochemical Data and Multivariate Analysis. <i>Food Analytical Methods</i> , <b>2018</b> , 11, 1994-2003	3.4	5
31	Exploratory Analysis Applied for the Evaluation of Yerba Mate Adulteration ( <i>Ilex paraguariensis</i> ). <i>Food Analytical Methods</i> , <b>2018</b> , 11, 2035-2041	3.4	5
30	Lipolytic activity of chromoblastomycosis agents measured by infrared spectroscopy and chemometric methods. <i>Medical Mycology</i> , <b>2009</b> , 47, 63-9	3.9	5
29	Quantitative analysis of total mycotoxins in metabolic extracts of four strains of <i>Bipolaris sorokiniana</i> ( <i>Helminthosporium sativum</i> ). <i>Process Biochemistry</i> , <b>2006</b> , 41, 177-180	4.8	5
28	Characterization of Gasoline by 1H Nuclear Magnetic Resonance and Chemometrics. <i>Analytical Letters</i> , <b>2017</b> , 50, 1767-1777	2.2	4
27	Determination of Total Sugar Content in Soy-Based Drinks Using Infrared Spectroscopy and Chemometrics. <i>Food Analytical Methods</i> , <b>2018</b> , 11, 1986-1993	3.4	4
26	Otimizaço de mtodos de controle de qualidade de frmacos usando algoritmo gentico e busca tabu. <i>Pesquisa Operacional</i> , <b>2003</b> , 23, 189-207	0.3	4
25	Seizures of Clandestinely Produced Tablets in Santa Catarina, Brazil: The Increase in NPS from 2011 to 2017. <i>Journal of Forensic Sciences</i> , <b>2020</b> , 65, 906-912	1.8	4
24	Deterioration potential of <i>Aureobasidium pullulans</i> on biodiesel, diesel, and B20 blend. <i>International Biodeterioration and Biodegradation</i> , <b>2020</b> , 147, 104839	4.8	4
23	OTIMIZATION OF TRANSESTERIFICATION DOUBLE STEP PROCESS (TDSP) TO THE PRODUCTION OF BIODIESEL THROUGH DOEHLERT EXPERIMENTAL DESIGN. <i>Quimica Nova</i> , <b>2016</b> ,	1.6	3
22	Rapid classification of chromoblastomycosis agents genera by infrared spectroscopy and chemometrics supervised by sequencing of rDNA regions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2021</b> , 254, 119647	4.4	3
21	Enhancing counterfeit and illicit medicines grouping via feature selection and X-ray fluorescence spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2019</b> , 174, 198-205	3.5	2

20	Wavenumber selection based on Singular Value Decomposition for sample classification. <i>Forensic Science International</i> , <b>2020</b> , 309, 110191	2.6	2
19	EXPLORATORY ANALYSIS APPLIED TO ATTENUATED TOTAL REFLECTANCE FOURIER TRANSFORM INFRARED (ATR-FTIR) OF BIODIESEL/DIESEL BLENDS. <i>Quimica Nova</i> , <b>2014</b> ,	1.6	2
18	Particle Swarm Method for Optimization of Multivariate Regression Models Employees for Biodiesel Determination in Biodiesel/Vegetable Oil/Diesel Blends. <i>Revista Virtual De Quimica</i> , <b>2016</b> , 8, 1877-1892	1.3	2
17	Determination of amoxicillin content in powdered pharmaceutical formulations using DRIFTS and PLS. <i>BJPS: Brazilian Journal of Pharmaceutical Sciences</i> , <b>2007</b> , 43, 89-96		2
16	Method Development and Total Uncertainty Estimation for Boron, Sulfur and Phosphorus Determination in Mineral Fertilizer Using ICP OES. <i>Journal of the Brazilian Chemical Society</i> , <b>2016</b> ,	1.5	2
15	Fast quantitative determination of phenolic compounds in grape juice by UPLC-MS: method validation and characterization of juices produced with different grape varieties. <i>Journal of Food Measurement and Characterization</i> , <b>2021</b> , 15, 1044-1056	2.8	2
14	Nature of Insoluble Material Found in the Bottom of Soybean Biodiesel Storage Tank: Chemical and Microbiological Approach. <i>Journal of the Brazilian Chemical Society</i> , <b>2018</b> ,	1.5	2
13	Low cost method for copper determination in sugarcane spirits using Photometrix UVCI embedded in smartphone. <i>Food Chemistry</i> , <b>2022</b> , 367, 130669	8.5	2
12	Blue Ballpoint Pen Inks Differentiation using Multivariate Image Analysis of Digital Images Captured with PhotoMetrix PRO . <i>Brazilian Journal of Forensic Sciences, Medical Law and Bioethics</i> , <b>2020</b> , 9, 331-355	0.2	1
11	Curve fitting and linearization of UV-Vis spectrophotometric measurements to estimate yeast in inoculum preparation. <i>Analytical Biochemistry</i> , <b>2021</b> , 625, 114216	3.1	1
10	Classification of Milk Samples Using CART. <i>Food Analytical Methods</i> , <b>2020</b> , 13, 13-20	3.4	1
9	Determination of Caseinomacropptide in Brazilian Bovine Milk by High-performance Liquid ChromatographyâMass Spectrometry. <i>Analytical Letters</i> , <b>2017</b> , 50, 2068-2077	2.2	0
8	Impact of water content on microbial growth in Brazilian biodiesel during simulated storage. <i>Fuel</i> , <b>2021</b> , 297, 120761	7.1	0
7	Geographical origin authentication of southern Brazilian red wines by means of EEM-pH four-way data modelling coupled with one class classification approach. <i>Food Chemistry</i> , <b>2021</b> , 362, 130087	8.5	0
6	Microbial sludge formation in Brazilian marine diesel oil (B0) and soybean methylic biodiesel blends (B10 and B20) during simulated storage. <i>Fuel</i> , <b>2022</b> , 308, 121905	7.1	0
5	Digital images coupled to PLS regression for pH prediction in sterile culture medium. <i>Biomedical Signal Processing and Control</i> , <b>2022</b> , 73, 103435	4.9	
4	Multivariate classification of Southern Brazilian table wines. <i>Journal of Chemometrics</i> , <b>2020</b> , 34, e3302	1.6	
3	Use of digital images to count colonies of biodiesel deteriotogenic microorganisms. <i>Journal of Microbiological Methods</i> , <b>2020</b> , 178, 106063	2.8	

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1 Characterization of Biodiesel from Animal Fat, Vegetable Oil, and Adulterants by Infrared Spectroscopy Combined with Chemometric Methods. *Energy & Fuels*, **2021**, 35, 13801-13812

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