Marco F Ferro

List of Publications by Year in Descending Order

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

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	Digital images coupled to PLS regression for pH prediction in sterile culture medium. *Biomedical Signal Processing and Control*, **2022**, 73, 103435	4.9	
108	Low cost method for copper determination in sugarcane spirits using Photometrix UVC embedded in smartphone. *Food Chemistry*, **2022**, 367, 130669	8.5	2
107	Microbial sludge formation in Brazilian marine diesel oil (B0) and soybean methylic biodiesel blends (B10 and B20) during simulated storage. *Fuel*, **2022**, 308, 121905	7.1	0
106	Rapid classification of chromoblastomycosis agents genera by infrared spectroscopy and chemometrics supervised by sequencing of rDNA regions. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 254, 119647	4.4	3
105	Curve fitting and linearization of UV-Vis spectrophotometric measurements to estimate yeast in inoculum preparation. *Analytical Biochemistry*, **2021**, 625, 114216	3.1	1
104	Fast quantitative determination of phenolic compounds in grape juice by UPLC-MS: method validation and characterization of juices produced with different grape varieties. *Journal of Food Measurement and Characterization*, **2021**, 15, 1044-1056	2.8	2
103	Applications of smartphones in´analysis: Challenges and solutions **2021**, 199-248		
102	Characterization of Biodiesel from Animal Fat, Vegetable Oil, and Adulterants by Infrared Spectroscopy Combined with Chemometric Methods. *Energy & Fuels*, **2021**, 35, 13801-13812	4.1	
101	Impact of water content on microbial growth in Brazilian biodiesel during simulated storage. *Fuel*, **2021**, 297, 120761	7.1	0
100	Geographical origin authentication of southern Brazilian red wines by means of EEM-pH four-way data modelling coupled with one class classification approach. *Food Chemistry*, **2021**, 362, 130087	8.5	0
99	Computer-vision based second-order (kinetic-color) data generation: arsenic quantitation in natural waters. *Microchemical Journal*, **2020**, 157, 104916	4.8	5
98	PhotoMetrix and colorimetric image analysis using smartphones. *Journal of Chemometrics*, **2020**, 34, e3251	1.6	8
97	Wavenumber selection based on Singular Value Decomposition for sample classification. *Forensic Science International*, **2020**, 309, 110191	2.6	2
96	Blue Ballpoint Pen Inks Differentiation using Multivariate Image Analysis of Digital Images Captured with PhotoMetrix PRO . *Brazilian Journal of Forensic Sciences, Medical Law and Bioethics*, **2020**, 9, 331-355	0.2	1
95	Seizures of Clandestinely´Produced Tablets in Santa Catarina, Brazil: The Increase in NPS from 2011 to 2017. *Journal of Forensic Sciences*, **2020**, 65, 906-912	1.8	4
94	Deterioration potential of Aureobasidium pullulans on biodiesel, diesel, and B20 blend. *International Biodeterioration and Biodegradation*, **2020**, 147, 104839	4.8	4
93	Effects of winemaking on âMarselanâred wines: volatile compounds and sensory aspects. *Ciencia E Tecnica Vitivinicola*, **2020**, 35, 63-75	1	6

92	Multivariate classification of Southern Brazilian table wines. *Journal of Chemometrics*, **2020**, 34, e3302	1.6	
91	Use of digital images to count colonies of biodiesel deteriogenic microorganisms. *Journal of Microbiological Methods*, **2020**, 178, 106063	2.8	
90	Classification of Milk Samples Using CART. *Food Analytical Methods*, **2020**, 13, 13-20	3.4	1
89	Comparison between counterfeit and authentic medicines: A novel approach using differential scanning calorimetry and hierarchical cluster analysis. *Journal of Pharmaceutical and Biomedical Analysis*, **2019**, 166, 304-309	3.5	10
88	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. *Journal of Hazardous Materials*, **2019**, 378, 120740	12.8	7
87	Simultaneous determination of sulfur, nitrogen and ash for vegetable tannins using ATR-FTIR spectroscopy and multivariate regression. *Microchemical Journal*, **2019**, 149, 103994	4.8	5
86	Enhancing counterfeit and illicit medicines grouping via feature selection and X-ray fluorescence spectrometry. *Journal of Pharmaceutical and Biomedical Analysis*, **2019**, 174, 198-205	3.5	2
85	Influence of Monoterpenes in Biological Activities of (Spreng.) Mez Essential Oils. *Biomolecules*, **2019**, 9,	5.9	7
84	Chemical and microbial storage stability studies and shelf life determinations of commercial Brazilian biodiesels stored in carbon steel containers in subtropical conditions. *Fuel*, **2019**, 236, 993-1007	7.1	17
83	Element selection and concentration analysis for classifying South America wine samples according to the country of origin. *Computers and Electronics in Agriculture*, **2018**, 150, 33-40	6.5	15
82	Identification of Possible Milk Adulteration Using Physicochemical Data and Multivariate Analysis. *Food Analytical Methods*, **2018**, 11, 1994-2003	3.4	5
81	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. *Food Analytical Methods*, **2018**, 11, 2022-2028	3.4	17
80	Determination of Total Sugar Content in Soy-Based Drinks Using Infrared Spectroscopy and Chemometrics. *Food Analytical Methods*, **2018**, 11, 1986-1993	3.4	4
79	Wavenumber selection method to determine the concentration of cocaine and adulterants in cocaine samples. *Journal of Pharmaceutical and Biomedical Analysis*, **2018**, 152, 120-127	3.5	10
78	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. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2018**, 142, 62-67	3.1	19
77	Rapid discrimination of natural polyphenols (vegetable tannins) from different plants by molecular spectroscopy and PLS-DA. *Analytical Methods*, **2018**, 10, 968-974	3.2	6
76	Rapid Determination of Ethanol in Sugarcane Spirit Using Partial Least Squares Regression Embedded in Smartphone. *Food Analytical Methods*, **2018**, 11, 1951-1957	3.4	19
75	Exploratory Analysis Applied for the Evaluation of Yerba Mate Adulteration (Ilex paraguariensis). *Food Analytical Methods*, **2018**, 11, 2035-2041	3.4	5

74	Comparison of Cocaine/Crack Biomarkers Concentrations in Oral Fluid, Urine and Plasma Simultaneously Collected From Drug Users. *Journal of Analytical Toxicology*, **2018**, 42, 69-76	2.9	6
73	An LC-ESI-MS/MS method for residues of fluoroquinolones, sulfonamides, tetracyclines and trimethoprim in feedingstuffs: validation and surveillance. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, **2018**, 35, 1975-1989	3.2	8
72	Classification of biomass through their pyrolytic bio-oil composition using FTIR and PCA analysis. *Industrial Crops and Products*, **2018**, 111, 856-864	5.9	90
71	Fast, cheap and easy routine quantification method for atrazine and its transformation products in water matrixes using a DLLME-GC/MS method. *Analytical Methods*, **2018**, 10, 5447-5452	3.2	9
70	Nature of Insoluble Material Found in the Bottom of Soybean Biodiesel Storage Tank: Chemical and Microbiological Approach. *Journal of the Brazilian Chemical Society*, **2018**,	1.5	2
69	Pseudallescheria boydii and Meyerozyma guilliermondii: behavior of deteriogenic fungi during simulated storage of diesel, biodiesel, and B10 blend in Brazil. *Environmental Science and Pollution Research*, **2018**, 25, 30410-30424	5.1	12
68	Interval importance index to select relevant ATR-FTIR wavenumber Intervals for falsified drug classification. *Journal of Pharmaceutical and Biomedical Analysis*, **2018**, 158, 494-503	3.5	8
67	Characterization of Gasoline by 1H Nuclear Magnetic Resonance and Chemometrics. *Analytical Letters*, **2017**, 50, 1767-1777	2.2	4
66	Determination of Caseinomacropeptide in Brazilian Bovine Milk by High-performance Liquid Chromatographyâ Mass Spectrometry. *Analytical Letters*, **2017**, 50, 2068-2077	2.2	0
65	Development of an inexpensive, practical and non-destructive methodology based on digital images from a scanner for the classification of commercial tannins from Acacia mearnsii. *Analytical Methods*, **2017**, 9, 3977-3982	3.2	6
64	A genetic algorithm-based framework for wavelength selection on sample categorization. *Drug Testing and Analysis*, **2017**, 9, 1172-1181	3.5	7
63	Effect of Sulfur Content on Microbial Composition and Biodegradation of a Brazilian Diesel and Biodiesel Blend (B10). *Energy & Fuels*, **2017**, 31, 12305-12316	4.1	6
62	A non-equidistant wavenumber interval selection approach for classifying diesel/biodiesel samples. *Chemometrics and Intelligent Laboratory Systems*, **2017**, 167, 171-178	3.8	7
61	Microbial community composition in Brazilian stored diesel fuel of varying sulfur content, using high-throughput sequencing. *Fuel*, **2017**, 189, 340-349	7.1	20
60	Near infrared spectroscopy combined with chemometrics for growth stage classification of cannabis cultivated in a greenhouse from seized seeds. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2017**, 173, 318-323	4.4	32
59	Biodiesel blend (B10) treated with a multifunctional additive (biocide) under simulated stored conditions: a field and lab scale monitoring. *Biofuel Research Journal*, **2017**, 4, 627-636	13.9	12
58	Chemical profiling and classification of cannabis through electrospray ionization coupled to Fourier transform ion cyclotron resonance mass spectrometry and chemometrics. *Analytical Methods*, **2017**, 9, 4070-4081	3.2	13
57	Development of methodology for identification the nature of the polyphenolic extracts by FTIR associated with multivariate analysis. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2016**, 153, 94-101	4.4	107

56	Structural discrimination of nanosilica particles and mixed-structure silica by multivariate analysis applied to SAXS profiles in combination with FT-IR spectroscopy. *RSC Advances*, **2016**, 6, 72306-72316	3.7	6
55	Determination of cocaine and its main adulterants in seized drugs from Rio Grande do Sul, Brazil, by a Doehlert optimized LC-DAD method. *Analytical Methods*, **2016**, 8, 5212-5217	3.2	13
54	Films based on neutralized chitosan citrate as innovative composition for cosmetic application. *Materials Science and Engineering C*, **2016**, 67, 115-124	8.3	47
53	A rapid and non-invasive method for the classification of natural tannin extracts by near-infrared spectroscopy and PLS-DA. *Analytical Methods*, **2016**, 8, 644-649	3.2	31
52	Seized cannabis seeds cultivated in greenhouse: A chemical study by gas chromatography-mass spectrometry and chemometric analysis. *Science and Justice - Journal of the Forensic Science Society*, **2016**, 56, 35-41	2	30
51	Biodegradation potential of Serratiamarcescens for diesel/biodiesel blends. *International Biodeterioration and Biodegradation*, **2016**, 110, 141-146	4.8	10
50	Effect of SiCl 4 on the preparation of functionalized mixed-structure silica from monodisperse solâgel silica nanoparticles. *Chemical Engineering Journal*, **2016**, 292, 233-245	14.7	11
49	Scott test evaluation by multivariate image analysis in cocaine samples. *Microchemical Journal*, **2016**, 127, 87-93	4.8	15
48	Particle Swarm Method for Optimization of Multivariate Regression Models Employees for Biodiesel Determination in Biodiesel/Vegetable Oil/Diesel Blends. *Revista Virtual De Quimica*, **2016**, 8, 1877-1892	1.3	2
47	OTIMIZATION OF TRANSESTERIFICATION DOUBLE STEP PROCESS (TDSP) TO THE PRODUCTION OF BIODIESEL THROUGH DOEHLERT EXPERIMENTAL DESIGN. *Quimica Nova*, **2016**,	1.6	3
46	Green method by diffuse reflectance infrared spectroscopy and spectral region selection for the quantification of sulphamethoxazole and trimethoprim in pharmaceutical formulations. *Anais Da Academia Brasileira De Ciencias*, **2016**, 88, 1-15	1.4	15
45	Method Development and Total Uncertainty Estimation for Boron, Sulfur and Phosphorus Determination in Mineral Fertilizer Using ICP OES. *Journal of the Brazilian Chemical Society*, **2016**,	1.5	2
44	PhotoMetrix: An Application for Univariate Calibration and Principal Components Analysis Using Colorimetry on Mobile Devices. *Journal of the Brazilian Chemical Society*, **2016**,	1.5	9
43	Wavelength selection framework for classifying food and pharmaceutical samples into multiple classes. *Journal of Chemometrics*, **2016**, 30, 346-353	1.6	10
42	A non-destructive, rapid and inexpensive methodology based on digital images for the classification of natural tannin extracts. *RSC Advances*, **2016**, 6, 32358-32364	3.7	9
41	Point-of-use electroanalytical platform based on homemade potentiostat and smartphone for multivariate data processing. *Electrochimica Acta*, **2016**, 219, 170-177	6.7	31
40	Ultraviolet spectroscopy and chemometrics for the identification of vegetable tannins. *Industrial Crops and Products*, **2016**, 91, 279-285	5.9	22
39	Environmentally Friendly Determination of Quality Parameters of Biodiesel/Diesel Blends Using Fourier Transform Infrared Spectra. *JAOCS, Journal of the American Oil Chemists' Society*, **2015**, 92, 309-315	1.8	10

38	Toxic and nutrient elements in yerba mate (Ilex paraguariensis). *Food Additives and Contaminants: Part B Surveillance*, **2015**, 8, 215-20	3.3	23
37	HATRâ□TIR wavenumber selection for predicting biodiesel/diesel blends flash point. *Chemometrics and Intelligent Laboratory Systems*, **2015**, 145, 1-6	3.8	8
36	Multicriteria wavenumber selection in cocaine classification. *Journal of Pharmaceutical and Biomedical Analysis*, **2015**, 115, 562-9	3.5	10
35	Profiling cocaine by ATR-FTIR. *Forensic Science International*, **2015**, 246, 65-71	2.6	45
34	Growth of Paecilomyces variotii in B0 (diesel), B100 (biodiesel) and B7 (blend), degradation and molecular detection. *Brazilian Journal of Biology*, **2015**, 75, 541-7	1.5	11
33	Authentication of yerba mate according to the country of origin by using Fourier transform infrared (FTIR) associated with chemometrics. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, **2015**, 32, 1215-22	3.2	9
32	CHEMOSTAT: EXPLORATORY MULTIVARIATE DATA ANALYSIS SOFTWARE. *Quimica Nova*, **2015**,	1.6	6
31	Fuel biodegradation and molecular characterization of microbial biofilms in stored diesel/biodiesel blend B10 and the effect of biocide. *International Biodeterioration and Biodegradation*, **2014**, 95, 346-355	4.8	32
30	Methods of multivariate analysis of NIR reflectance spectra for classification of yerba mate. *Analytical Methods*, **2014**, 6, 7621-7627	3.2	26
29	Direct determination of tannins in Acacia mearnsii bark using near-infrared spectroscopy. *Analytical Methods*, **2014**, 6, 8299-8305	3.2	21
28	Classification of yerba mate (Ilex paraguariensis) according to the country of origin based on element concentrations. *Microchemical Journal*, **2014**, 117, 164-171	4.8	39
27	Multivariate optimization for extraction of pyrethroids in milk and validation for GC-ECD and CG-MS/MS analysis. *International Journal of Environmental Research and Public Health*, **2014**, 11, 11421-37	4.6	10
26	EXPLORATORY ANALYSIS APPLIED TO ATTENUATED TOTAL REFLECTANCE FOURIER TRANSFORM INFRARED (ATR-FTIR) OF BIODIESEL/DIESEL BLENDS. *Quimica Nova*, **2014**,	1.6	2
25	Detection of the origin of Brazilian wines based on the determination of only four elements using high-resolution continuum source flame AAS. *Talanta*, **2013**, 111, 147-55	6.2	26
24	Monitoring of efficacy of antimicrobial products during 60days storage simulation of diesel (B0), biodiesel (B100) and blends (B7 and B10). *Fuel*, **2013**, 112, 153-162	7.1	21
23	Fourier transform infrared spectroscopy (FTIR) and multivariate analysis for identification of different vegetable oils used in biodiesel production. *Sensors*, **2013**, 13, 4258-71	3.8	33
22	Total sulfur determination in residues of crude oil distillation using FT-IR/ATR and variable selection methods. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2012**, 89, 82-7	4.4	38
21	Multivariate optimization for cloud point extraction and determination of lanthanides. *Analytical Methods*, **2012**, 4, 2809	3.2	16

20	Simultaneous diffuse reflectance infrared determination of clavulanic acid and amoxicillin using multivariate calibration techniques. *Drug Testing and Analysis*, **2012**, 4, 500-6	3.5	9
19	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. *Journal of the Brazilian Chemical Society*, **2011**, 22, 1903-1912	1.5	28
18	Simultaneous determination of quality parameters of biodiesel/diesel blends using HATR-FTIR spectra and PLS, iPLS or siPLS regressions. *Fuel*, **2011**, 90, 701-706	7.1	94
17	Total Acid Number Determination in Residues of Crude Oil Distillation Using ATR-FTIR and Variable Selection by Chemometric Methods. *Energy & Fuels*, **2010**, 24, 5474-5478	4.1	41
16	Simultaneous determination of sulphamethoxazole and trimethoprim in powder mixtures by attenuated total reflection-Fourier transform infrared and multivariate calibration. *Journal of Pharmaceutical and Biomedical Analysis*, **2009**, 49, 800-5	3.5	33
15	Lipolytic activity of chromoblastomycosis agents measured by infrared spectroscopy and chemometric methods. *Medical Mycology*, **2009**, 47, 63-9	3.9	5
14	Determinação de umidade em café cru usando espectroscopia NIR e regressão multivariada. *Food Science and Technology*, **2008**, 28,	2	10
13	LS-SVM: uma nova ferramenta quimiométrica para regressão multivariada. Comparação de modelos de regressão LS-SVM e PLS na quantificação de adulterantes em leite em pó empregando NIR. *Quimica Nova*, **2007**, 30, 852-859	1.6	21
12	Determinação de açúcar total em café cru por espectroscopia no infravermelho próximo e regressão por mínimos quadrados parciais. *Quimica Nova*, **2007**, 30, 346-350	1.6	9
11	Non-destructive method for determination of hydroxyl value of soybean polyol by LS-SVM using HATR/FT-IR. *Analytica Chimica Acta*, **2007**, 595, 114-9	6.6	25
10	Quantification of Lactobacillus in fermented milk by multivariate image analysis with least-squares support-vector machines. *Analytical and Bioanalytical Chemistry*, **2007**, 387, 1105-12	4.4	24
9	Determination of the Hydroxyl Value of Soybean Polyol by Attenuated Total Reflectance/Fourier Transform Infrared Spectroscopy. *JAOCS, Journal of the American Oil Chemists' Society*, **2007**, 84, 503-508	1.8	22
8	Determination of amoxicillin content in powdered pharmaceutical formulations using DRIFTS and PLS. *BJPS: Brazilian Journal of Pharmaceutical Sciences*, **2007**, 43, 89-96		2
7	Ceramer coatings from castor oil or epoxidized castor oil and tetraethoxysilane. *JAOCS, Journal of the American Oil Chemists' Society*, **2006**, 83, 147-151	1.8	36
6	Determination of intrinsic viscosity of poly(ethylene terephthalate) using infrared spectroscopy and multivariate calibration method. *Talanta*, **2006**, 69, 643-9	6.2	8
5	Least-squares support vector machines and near infrared spectroscopy for quantification of common adulterants in powdered milk. *Analytica Chimica Acta*, **2006**, 579, 25-32	6.6	220
4	Quantitative analysis of total mycotoxins in metabolic extracts of four strains of Bipolaris sorokiniana (Helminthosporium sativum). *Process Biochemistry*, **2006**, 41, 177-180	4.8	5
3	Horizontal attenuated total reflection applied to simultaneous determination of ash and protein contents in commercial wheat flour. *Analytica Chimica Acta*, **2005**, 540, 411-415	6.6	30

2	Determinação simultânea dos teores de cinza e proteína em farinha de trigo empregando NIRR-PLS e DRIFT-PLS. *Food Science and Technology*, **2004**, 24, 333-340	2	8
1	Otimização de métodos de controle de qualidade de fármacos usando algoritmo genético e busca tabu. *Pesquisa Operacional*, **2003**, 23, 189-207	0.3	4