

Marco F FerrÃ£o

List of Publications by Year in descending order

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121
papers

2,427
citations

249298

26
h-index

286692

43
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122
all docs

122
docs citations

122
times ranked

3205
citing authors

#	ARTICLE	IF	CITATIONS
1	Low cost method for copper determination in sugarcane spirits using Photometrix UVCÂ® embedded in smartphone. Food Chemistry, 2022, 367, 130669.	4.2	10
2	Microbial sludge formation in Brazilian marine diesel oil (B0) and soybean methylic biodiesel blends (B10 and B20) during simulated storage. Fuel, 2022, 308, 121905.	3.4	5
3	Digital images coupled to PLS regression for pH prediction in sterile culture medium. Biomedical Signal Processing and Control, 2022, 73, 103435.	3.5	1
4	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.	1.6	7
5	Applications of smartphones in analysis: Challenges and solutions. , 2021, , 199-248.		0
6	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.	2.0	11
7	Chemometric Approaches in Questioned Documents. Brazilian Journal of Analytical Chemistry, 2021, , .	0.3	1
8	Fingerprint Analysis by Fourier Transform Infrared Microscopy Using Chemometric Tools. Brazilian Journal of Analytical Chemistry, 2021, 8, .	0.3	2
9	Curve fitting and linearization of UV-Vis spectrophotometric measurements to estimate yeast in inoculum preparation. Analytical Biochemistry, 2021, 625, 114216.	1.1	5
10	Characterization of Biodiesel from Animal Fat, Vegetable Oil, and Adulterants by Infrared Spectroscopy Combined with Chemometric Methods. Energy & Fuels, 2021, 35, 13801-13812.	2.5	1
11	Impact of water content on microbial growth in Brazilian biodiesel during simulated storage. Fuel, 2021, 297, 120761.	3.4	4
12	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.	4.2	6
13	Classification of Milk Samples Using CART. Food Analytical Methods, 2020, 13, 13-20.	1.3	4
14	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.	0.9	9
15	Deterioration potential of Aureobasidium pullulans on biodiesel, diesel, and B20 blend. International Biodeterioration and Biodegradation, 2020, 147, 104839.	1.9	5
16	Effects of winemaking on Marselan™ red wines: volatile compounds and sensory aspects. Ciencia E Tecnica Vitivinicola, 2020, 35, 63-75.	0.3	10
17	Multivariate classification of Southern Brazilian table wines. Journal of Chemometrics, 2020, 34, e3302.	0.7	0
18	Use of digital images to count colonies of biodiesel detriogenic microorganisms. Journal of Microbiological Methods, 2020, 178, 106063.	0.7	0

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19	Computer-vision based second-order (kinetic-color) data generation: arsenic quantitation in natural waters. <i>Microchemical Journal</i> , 2020, 157, 104916.	2.3	9
20	PhotoMetrix and colorimetric image analysis using smartphones. <i>Journal of Chemometrics</i> , 2020, 34, e3251.	0.7	34
21	Wavenumber selection based on Singular Value Decomposition for sample classification. <i>Forensic Science International</i> , 2020, 309, 110191.	1.3	5
22	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> , 2020, 9, 331-355.	0.2	5
23	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> , 2019, 166, 304-309.	1.4	17
24	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> , 2019, 378, 120740.	6.5	9
25	Simultaneous determination of sulfur, nitrogen and ash for vegetable tannins using ATR-FTIR spectroscopy and multivariate regression. <i>Microchemical Journal</i> , 2019, 149, 103994.	2.3	12
26	Enhancing counterfeit and illicit medicines grouping via feature selection and X-ray fluorescence spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 174, 198-205.	1.4	5
27	Influence of Monoterpenes in Biological Activities of <i>Nectandra megapotamica</i> (Spreng.) Mez Essential Oils. <i>Biomolecules</i> , 2019, 9, 112.	1.8	10
28	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> , 2019, 236, 993-1007.	3.4	24
29	CHEMOMETRIC TOOLS AND FTIR-ATR SPECTROSCOPY APPLIED IN MILK ADULTERATED WITH CHEESE WHEY. <i>Quimica Nova</i> , 2019, . .	0.3	2
30	Element selection and concentration analysis for classifying South America wine samples according to the country of origin. <i>Computers and Electronics in Agriculture</i> , 2018, 150, 33-40.	3.7	24
31	Identification of Possible Milk Adulteration Using Physicochemical Data and Multivariate Analysis. <i>Food Analytical Methods</i> , 2018, 11, 1994-2003.	1.3	11
32	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> , 2018, 11, 2022-2028.	1.3	25
33	Determination of Total Sugar Content in Soy-Based Drinks Using Infrared Spectroscopy and Chemometrics. <i>Food Analytical Methods</i> , 2018, 11, 1986-1993.	1.3	7
34	Wavenumber selection method to determine the concentration of cocaine and adulterants in cocaine samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 152, 120-127.	1.4	17
35	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> , 2018, 142, 62-67.	1.5	27
36	Rapid discrimination of natural polyphenols (vegetable tannins) from different plants by molecular spectroscopy and PLS-DA. <i>Analytical Methods</i> , 2018, 10, 968-974.	1.3	8

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37	Rapid Determination of Ethanol in Sugarcane Spirit Using Partial Least Squares Regression Embedded in Smartphone. <i>Food Analytical Methods</i> , 2018, 11, 1951-1957.	1.3	25
38	Exploratory Analysis Applied for the Evaluation of Yerba Mate Adulteration (<i>Ilex paraguariensis</i>). <i>Food Analytical Methods</i> , 2018, 11, 2035-2041.	1.3	5
39	Comparison of Cocaine/Crack Biomarkers Concentrations in Oral Fluid, Urine and Plasma Simultaneously Collected From Drug Users. <i>Journal of Analytical Toxicology</i> , 2018, 42, 69-76.	1.7	12
40	Classification of biomass through their pyrolytic bio-oil composition using FTIR and PCA analysis. <i>Industrial Crops and Products</i> , 2018, 111, 856-864.	2.5	134
41	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> , 2018, 10, 5447-5452.	1.3	16
42	<i>Pseudallescheria boydii</i> and <i>Meyerozyma guilliermondii</i> : behavior of deterogenic fungi during simulated storage of diesel, biodiesel, and B10 blend in Brazil. <i>Environmental Science and Pollution Research</i> , 2018, 25, 30410-30424.	2.7	15
43	Interval importance index to select relevant ATR-FTIR wavenumber Intervals for falsified drug classification. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 158, 494-503.	1.4	11
44	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> , 2018, 35, 1975-1989.	1.1	13
45	Characterization of Gasoline by ¹ H Nuclear Magnetic Resonance and Chemometrics. <i>Analytical Letters</i> , 2017, 50, 1767-1777.	1.0	4
46	Determination of Caseinomacropetide in Brazilian Bovine Milk by High-performance Liquid Chromatography-Mass Spectrometry. <i>Analytical Letters</i> , 2017, 50, 2068-2077.	1.0	1
47	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> , 2017, 9, 3977-3982.	1.3	6
48	A genetic algorithm-based framework for wavelength selection on sample categorization. <i>Drug Testing and Analysis</i> , 2017, 9, 1172-1181.	1.6	8
49	Effect of Sulfur Content on Microbial Composition and Biodegradation of a Brazilian Diesel and Biodiesel Blend (B10). <i>Energy & Fuels</i> , 2017, 31, 12305-12316.	2.5	7
50	A non-equidistant wavenumber interval selection approach for classifying diesel/biodiesel samples. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2017, 167, 171-178.	1.8	8
51	Microbial community composition in Brazilian stored diesel fuel of varying sulfur content, using high-throughput sequencing. <i>Fuel</i> , 2017, 189, 340-349.	3.4	29
52	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> , 2017, 173, 318-323.	2.0	51
53	Chemical profiling and classification of cannabis through electrospray ionization coupled to Fourier transform ion cyclotron resonance mass spectrometry and chemometrics. <i>Analytical Methods</i> , 2017, 9, 4070-4081.	1.3	17
54	Biodiesel blend (B10) treated with a multifunctional additive (biocide) under simulated stored conditions: a field and lab scale monitoring. <i>Biofuel Research Journal</i> , 2017, 4, 627-636.	7.2	12

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55	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> , 2016, 88, 1-15.	0.3	17
56	Principal Component Analysis of Commercial Tannin Extracts Using Digital Images on Mobile Devices. <i>Journal of the Brazilian Chemical Society</i> , 2016, , .	0.6	2
57	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> , 2016, , .	0.6	2
58	PhotoMetrix: An Application for Univariate Calibration and Principal Components Analysis Using Colorimetry on Mobile Devices. <i>Journal of the Brazilian Chemical Society</i> , 2016, , .	0.6	22
59	Wavelength selection framework for classifying food and pharmaceutical samples into multiple classes. <i>Journal of Chemometrics</i> , 2016, 30, 346-353.	0.7	10
60	A non-destructive, rapid and inexpensive methodology based on digital images for the classification of natural tannin extracts. <i>RSC Advances</i> , 2016, 6, 32358-32364.	1.7	10
61	Point-of-use electroanalytical platform based on homemade potentiostat and smartphone for multivariate data processing. <i>Electrochimica Acta</i> , 2016, 219, 170-177.	2.6	41
62	Ultraviolet spectroscopy and chemometrics for the identification of vegetable tannins. <i>Industrial Crops and Products</i> , 2016, 91, 279-285.	2.5	36
63	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> , 2016, 6, 72306-72316.	1.7	9
64	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> , 2016, 8, 5212-5217.	1.3	15
65	Films based on neutralized chitosan citrate as innovative composition for cosmetic application. <i>Materials Science and Engineering C</i> , 2016, 67, 115-124.	3.8	54
66	A rapid and non-invasive method for the classification of natural tannin extracts by near-infrared spectroscopy and PLS-DA. <i>Analytical Methods</i> , 2016, 8, 644-649.	1.3	38
67	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> , 2016, 56, 35-41.	1.3	45
68	Biodegradation potential of <i>Serratiamarcescens</i> for diesel/biodiesel blends. <i>International Biodeterioration and Biodegradation</i> , 2016, 110, 141-146.	1.9	12
69	Effect of SiCl ₄ on the preparation of functionalized mixed-structure silica from monodisperse sol-gel silica nanoparticles. <i>Chemical Engineering Journal</i> , 2016, 292, 233-245.	6.6	18
70	Scott test evaluation by multivariate image analysis in cocaine samples. <i>Microchemical Journal</i> , 2016, 127, 87-93.	2.3	21
71	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> , 2016, 153, 94-101.	2.0	158
72	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> , 2016, 8, 1877-1892.	0.1	2

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73	OPTIMIZATION OF TRANSESTERIFICATION DOUBLE STEP PROCESS (TDSP) TO THE PRODUCTION OF BIODIESEL THROUGH DOEHLERT EXPERIMENTAL DESIGN. <i>Quimica Nova</i> , 2016, , .	0.3	3
74	Growth of <i>Paecilomyces variotii</i> in B0 (diesel), B100 (biodiesel) and B7 (blend), degradation and molecular detection. <i>Brazilian Journal of Biology</i> , 2015, 75, 541-547.	0.4	13
75	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> , 2015, 32, 1215-1222.	1.1	12
76	Environmentally Friendly Determination of Quality Parameters of Biodiesel/Diesel Blends Using Fourier Transform Infrared Spectra. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2015, 92, 309-315.	0.8	10
77	Toxic and nutrient elements in yerba mate (<i>Ilex paraguariensis</i>). <i>Food Additives and Contaminants: Part B Surveillance</i> , 2015, 8, 215-220.	1.3	31
78	HATR-FTIR wavenumber selection for predicting biodiesel/diesel blends flash point. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2015, 145, 1-6.	1.8	11
79	Multicriteria wavenumber selection in cocaine classification. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 115, 562-569.	1.4	13
80	Profiling cocaine by ATR-FTIR. <i>Forensic Science International</i> , 2015, 246, 65-71.	1.3	61
81	Desenvolvimento de Modelos de Regressão Multivariada para a Quantificação de Benzoilmetronidazol na Presença de seus Produtos de Degradação por Espectroscopia no Infravermelho Próximo. <i>Orbital</i> , 2015, 7, .	0.1	1
82	CHEMOSTAT: EXPLORATORY MULTIVARIATE DATA ANALYSIS SOFTWARE. <i>Quimica Nova</i> , 2015, , .	0.3	11
83	Multivariate Analysis of the Profile of Elements Concentrations in the Yerba Mate (<i>Ilex</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 34	0.1	1
84	Multivariate Control Charts Application to the Control and Quality Assurance of Biodiesel (B100). <i>Revista Virtual De Quimica</i> , 2015, 7, 2273-2289.	0.1	0
85	EXPLORATORY ANALYSIS APPLIED TO ATTENUATED TOTAL REFLECTANCE FOURIER TRANSFORM INFRARED (ATR-FTIR) OF BIODIESEL/DIESEL BLENDS. <i>Quimica Nova</i> , 2014, , .	0.3	4
86	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> , 2014, 95, 346-355.	1.9	39
87	Methods of multivariate analysis of NIR reflectance spectra for classification of yerba mate. <i>Analytical Methods</i> , 2014, 6, 7621-7627.	1.3	26
88	Direct determination of tannins in <i>Acacia mearnsii</i> bark using near-infrared spectroscopy. <i>Analytical Methods</i> , 2014, 6, 8299-8305.	1.3	25
89	Classification of yerba mate (<i>Ilex paraguariensis</i>) according to the country of origin based on element concentrations. <i>Microchemical Journal</i> , 2014, 117, 164-171.	2.3	49
90	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> , 2014, 11, 11421-11437.	1.2	14

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91	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> , 2013, 111, 147-155.	2.9	28
92	Monitoring of efficacy of antimicrobial products during 60days storage simulation of diesel (B0), biodiesel (B100) and blends (B7 and B10). <i>Fuel</i> , 2013, 112, 153-162.	3.4	22
93	Fourier Transform Infrared Spectroscopy (FTIR) and Multivariate Analysis for Identification of Different Vegetable Oils Used in Biodiesel Production. <i>Sensors</i> , 2013, 13, 4258-4271.	2.1	43
94	Multivariate optimization for cloud point extraction and determination of lanthanides. <i>Analytical Methods</i> , 2012, 4, 2809.	1.3	19
95	Simultaneous diffuse reflectance infrared determination of clavulanic acid and amoxicillin using multivariate calibration techniques. <i>Drug Testing and Analysis</i> , 2012, 4, 500-506.	1.6	9
96	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> , 2012, 89, 82-87.	2.0	47
97	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> , 2011, 22, 1903-1912.	0.6	32
98	Simultaneous determination of quality parameters of biodiesel/diesel blends using HATR-FTIR spectra and PLS, iPLS or siPLS regressions. <i>Fuel</i> , 2011, 90, 701-706.	3.4	106
99	Total Acid Number Determination in Residues of Crude Oil Distillation Using ATR-FTIR and Variable Selection by Chemometric Methods. <i>Energy & Fuels</i> , 2010, 24, 5474-5478.	2.5	49
100	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> , 2009, 49, 800-805.	1.4	36
101	Lipolytic activity of chromoblastomycosis agents measured by infrared spectroscopy and chemometric methods. <i>Medical Mycology</i> , 2009, 47, 63-69.	0.3	6
102	Determinação de umidade em café cru usando espectroscopia NIR e regressão multivariada. <i>Food Science and Technology</i> , 2008, 28, .	0.8	11
103	Otimização de métodos de regressão multivariada para quantificação de sulfametoxazol e trimetoprima em medicamentos. <i>Revista Produção Online</i> , 2008, 7, .	0.1	0
104	LS-SVM: uma nova ferramenta química para regressão multivariada. Comparação de modelos de regressão LS-SVM e PLS na quantificação de adulterantes em leite em pó empregando NIR. <i>Química Nova</i> , 2007, 30, 852-859.	0.3	22
105	Determinação de açúcar total em café cru por espectroscopia no infravermelho próximo e regressão por mínimos quadrados parciais. <i>Química Nova</i> , 2007, 30, 346-350.	0.3	10
106	Non-destructive method for determination of hydroxyl value of soybean polyol by LS-SVM using HATR/FT-IR. <i>Analytica Chimica Acta</i> , 2007, 595, 114-119.	2.6	27
107	Quantification of Lactobacillus in fermented milk by multivariate image analysis with least-squares support-vector machines. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1105-1112.	1.9	30
108	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> , 2007, 84, 503-508.	0.8	24

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109	Determination of amoxicillin content in powdered pharmaceutical formulations using DRIFTS and PLS. BJPS: Brazilian Journal of Pharmaceutical Sciences, 2007, 43, 89-96.	0.5	5
110	Determination of intrinsic viscosity of poly(ethylene terephthalate) using infrared spectroscopy and multivariate calibration method. Talanta, 2006, 69, 643-649.	2.9	10
111	Least-squares support vector machines and near infrared spectroscopy for quantification of common adulterants in powdered milk. Analytica Chimica Acta, 2006, 579, 25-32.	2.6	253
112	Quantitative analysis of total mycotoxins in metabolic extracts of four strains of Bipolaris sorokiniana (Helminthosporium sativum). Process Biochemistry, 2006, 41, 177-180.	1.8	6
113	Ceramer coatings from castor oil or epoxidized castor oil and tetraethoxysilane. JAOCS, Journal of the American Oil Chemists' Society, 2006, 83, 147-151.	0.8	40
114	Multivariate regression models for the simultaneous quantitative analysis of calcium and magnesium carbonates and magnesium oxide through drifts data. Journal of the Brazilian Chemical Society, 2006, 17, 594-598.	0.6	1
115	Pulicacão de métodos de análise multivariada no controle qualitativo de essências alimentícias empregando espectroscopia no infravermelho médio. Food Science and Technology, 2006, 26, 779-786.	0.8	1
116	Horizontal attenuated total reflection applied to simultaneous determination of ash and protein contents in commercial wheat flour. Analytica Chimica Acta, 2005, 540, 411-415.	2.6	32
117	Determinação simultânea dos teores de cinza e proteína em farinha de trigo empregando NIR-PLS e DRIFT-PLS. Food Science and Technology, 2004, 24, 333-340.	0.8	8
118	Otimização de métodos de controle de qualidade de fármacos usando algoritmo genético e busca tabu. Pesquisa Operacional, 2003, 23, 189-207.	0.1	5
119	Nature of Insoluble Material Found in the Bottom of Soybean Biodiesel Storage Tank: Chemical and Microbiological Approach. Journal of the Brazilian Chemical Society, 0, , .	0.6	2
120	Avaliação de fragmentos de lenhos carbonizados de Araucariaceae por meio de análise por termogravimetria e infravermelho associado à análise multivariada. Química Nova, 0, , .	0.3	1
121	Exploratory Analysis Methods Applied to the Infrared Spectrometry Teaching. Revista Virtual De Química, 0, , 229-243.	0.1	0