

Paulo Roberto Filgueiras

List of Publications by Year in descending order

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111
papers

2,041
citations

236925

25
h-index

361022

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111
all docs

111
docs citations

111
times ranked

1950
citing authors

#	ARTICLE	IF	CITATIONS
1	Portable near infrared spectroscopy applied to quality control of Brazilian coffee. <i>Talanta</i> , 2018, 176, 59-68.	5.5	110
2	Determination of API gravity, kinematic viscosity and water content in petroleum by ATR-FTIR spectroscopy and multivariate calibration. <i>Fuel</i> , 2014, 116, 123-130.	6.4	66
3	Study of the stability and homogeneity of water in oil emulsions of heavy oil. <i>Fuel</i> , 2018, 226, 278-285.	6.4	52
4	Petroleomics by electrospray ionization FT-ICR mass spectrometry coupled to partial least squares with variable selection methods: prediction of the total acid number of crude oils. <i>Analyst, The</i> , 2014, 139, 4908-4916.	3.5	50
5	Quantification of biodiesel in petroleum diesel by ¹ H NMR: Evaluation of univariate and multivariate approaches. <i>Fuel</i> , 2016, 166, 12-18.	6.4	48
6	Quantification and classification of vegetable oils in extra virgin olive oil samples using a portable near-infrared spectrometer associated with chemometrics. <i>Microchemical Journal</i> , 2020, 159, 105544.	4.5	45
7	Determination of some physicochemical properties in Brazilian crude oil by ¹ H NMR spectroscopy associated to chemometric approach. <i>Fuel</i> , 2016, 181, 660-669.	6.4	44
8	Portable near infrared spectroscopy applied to fuel quality control. <i>Talanta</i> , 2018, 176, 26-33.	5.5	44
9	Determination of Saturates, Aromatics, and Polars in Crude Oil by ¹³ C NMR and Support Vector Regression with Variable Selection by Genetic Algorithm. <i>Energy & Fuels</i> , 2016, 30, 1972-1978.	5.1	43
10	Quantification of animal fat biodiesel in soybean biodiesel and B20 diesel blends using near infrared spectroscopy and synergy interval support vector regression. <i>Talanta</i> , 2014, 119, 582-589.	5.5	40
11	Portable near infrared spectroscopy applied to abuse drugs and medicine analyses. <i>Analytical Methods</i> , 2018, 10, 593-603.	2.7	40
12	Evaluation of trends in residuals of multivariate calibration models by permutation test. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014, 133, 33-41.	3.5	39
13	Use of Random forest in the identification of important variables. <i>Microchemical Journal</i> , 2019, 145, 1129-1134.	4.5	37
14	Application of low field NMR as an alternative technique to quantification of total acid number and sulphur content in petroleum from Brazilian reservoirs. <i>Fuel</i> , 2016, 176, 146-152.	6.4	36
15	Environmental impacts related to drilling fluid waste and treatment methods: A critical review. <i>Fuel</i> , 2022, 310, 122301.	6.4	35
16	Study of the effect of temperature and gas condensate addition on the viscosity of heavy oils. <i>Journal of Petroleum Science and Engineering</i> , 2016, 142, 163-169.	4.2	34
17	Thin layer chromatography coupled to paper spray ionization mass spectrometry for cocaine and its adulterants analysis. <i>Forensic Science International</i> , 2016, 262, 56-65.	2.2	34
18	Quantification of beef, pork, and chicken in ground meat using a portable NIR spectrometer. <i>Vibrational Spectroscopy</i> , 2020, 111, 103158.	2.2	34

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19	Sulfur Determination in Brazilian Petroleum Fractions by Mid-infrared and Near-infrared Spectroscopy and Partial Least Squares Associated with Variable Selection Methods. <i>Energy & Fuels</i> , 2016, 30, 698-705.	5.1	33
20	Laser desorption ionization FT-ICR mass spectrometry and CARSPLS for predicting basic nitrogen and aromatics contents in crude oils. <i>Fuel</i> , 2015, 160, 274-281.	6.4	30
21	Prediction of the distillation temperatures of crude oils using ¹ H NMR and support vector regression with estimated confidence intervals. <i>Talanta</i> , 2015, 142, 197-205.	5.5	30
22	Chemical and sensory profile of new genotypes of Brazilian <i>Coffea canephora</i> . <i>Food Chemistry</i> , 2020, 310, 125850.	8.2	29
23	Multivariate optimisation of ICP OES instrumental parameters for Pb/Ba/Sb measurement in gunshot residues. <i>Microchemical Journal</i> , 2015, 120, 58-63.	4.5	28
24	Paper spray ionization mass spectrometry allied to chemometric tools for quantification of whisky adulteration with additions of sugarcane spirit. <i>Analytical Methods</i> , 2018, 10, 1952-1960.	2.7	28
25	Quantification of milk adulterants (starch, H ₂ O ₂ , and NaClO) using colorimetric assays coupled to smartphone image analysis. <i>Microchemical Journal</i> , 2020, 156, 104968.	4.5	28
26	Membrane lipid profile monitored by mass spectrometry detected differences between fresh and vitrified in vitro-produced bovine embryos. <i>Zygote</i> , 2015, 23, 732-741.	1.1	27
27	A survey of adulterants used to cut cocaine in samples seized in the Espírito Santo State by GC-MS allied to chemometric tools. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2016, 56, 73-79.	2.1	26
28	Forensic ballistics by inductively coupled plasma-optical emission spectroscopy: Quantification of gunshot residues and prediction of the number of shots using different firearms. <i>Microchemical Journal</i> , 2015, 118, 19-25.	4.5	25
29	FTIR, ¹ H and ¹³ C NMR data fusion to predict crude oils properties. <i>Fuel</i> , 2020, 263, 116721.	6.4	25
30	Determination of crude oil physicochemical properties by high-temperature gas chromatography associated with multivariate calibration. <i>Fuel</i> , 2018, 220, 389-395.	6.4	24
31	Salinidade em petróleo bruto: otimização de metodologia e proposta de um novo método para extração de sais em petróleo. <i>Química Nova</i> , 2010, 33, 607-612.	0.3	23
32	Evaluation of calibration transfer methods using the ATR-FTIR technique to predict density of crude oil. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2017, 166, 7-13.	3.5	23
33	A review of chemometrics models to predict crude oil properties from nuclear magnetic resonance and infrared spectroscopy. <i>Fuel</i> , 2021, 303, 121283.	6.4	23
34	Chemical profiles of Robusta and Arabica coffee by ESI(+)FT-ICR MS and ATR-FTIR: a quantitative approach. <i>Analytical Methods</i> , 2016, 8, 7678-7688.	2.7	22
35	Exploratory data analysis using API gravity and V and Ni contents to determine the origins of crude oil samples from petroleum fields in the Espírito Santo Basin (Brazil). <i>Microchemical Journal</i> , 2016, 124, 26-30.	4.5	22
36	Extraction and isolation of cannabinoids from marijuana seizures and characterization by ¹ H NMR allied to chemometric tools. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2018, 58, 355-365.	2.1	22

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37	Discrimination of oils and fuels using a portable NIR spectrometer. <i>Fuel</i> , 2021, 283, 118854.	6.4	22
38	Determination of physicochemical properties of biodiesel and blends using low-field NMR and multivariate calibration. <i>Fuel</i> , 2019, 237, 745-752.	6.4	21
39	Adsorption of anionic surfactant in graphite oxide: A study for treatment of laundry wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106858.	6.7	20
40	Oil recovery from water-based drilling fluid waste. <i>Fuel</i> , 2019, 237, 335-343.	6.4	19
41	New methodology for heavy oil desalination. <i>Fuel</i> , 2015, 150, 705-710.	6.4	18
42	Direct quantitative analysis of cocaine by thin layer chromatography plus a mobile phone and multivariate calibration: a cost-effective and rapid method. <i>Analytical Methods</i> , 2016, 8, 7632-7637.	2.7	18
43	Quantification of cocaine and its adulterants (lidocaine and levamisole) using the Dragendorff reagent allied to paper spray ionization mass spectrometry. <i>Analytical Methods</i> , 2017, 9, 3662-3668.	2.7	18
44	Banknote analysis by portable near infrared spectroscopy. <i>Forensic Chemistry</i> , 2018, 8, 57-63.	2.8	18
45	Integrative analysis to select cancer candidate biomarkers to targeted validation. <i>Oncotarget</i> , 2015, 6, 43635-43652.	1.8	18
46	Characterization of naphthenic acids in crude oil samples – A literature review. <i>Fuel</i> , 2022, 319, 123775.	6.4	18
47	Rheological study of the behavior of water-in-oil emulsions of heavy oils. <i>Journal of Petroleum Science and Engineering</i> , 2019, 173, 1323-1331.	4.2	17
48	Multivariate calibration applied to study of volatile predictors of arabica coffee quality. <i>Food Chemistry</i> , 2022, 367, 130679.	8.2	17
49	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.	2.7	17
50	Quality control of ethanol fuel: Assessment of adulteration with methanol using ¹ H NMR. <i>Fuel</i> , 2014, 135, 387-392.	6.4	16
51	LDI and MALDI-FT-ICR imaging MS in <i>Cannabis</i> leaves: optimization and study of spatial distribution of cannabinoids. <i>Analytical Methods</i> , 2019, 11, 1757-1764.	2.7	16
52	Determination of physicochemical properties of petroleum using ¹ H NMR spectroscopy combined with multivariate calibration. <i>Fuel</i> , 2019, 253, 320-326.	6.4	15
53	Analytical methods to access the chemical composition of an <i>Euphorbia tirucalli</i> anticancer latex from traditional Brazilian medicine. <i>Journal of Ethnopharmacology</i> , 2019, 237, 255-265.	4.1	15
54	Chemical and sensory discrimination of coffee: impacts of the planting altitude and fermentation. <i>European Food Research and Technology</i> , 2022, 248, 659-669.	3.3	15

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55	Monitoring the polyamide 11 degradation by thermal properties and X-ray fluorescence spectrometry allied to chemometric methods. <i>X-Ray Spectrometry</i> , 2013, 42, 79-86.	1.4	14
56	Limitations of the Pour Point Measurement and the Influence of the Oil Composition on Its Detection Using Principal Component Analysis. <i>Energy & Fuels</i> , 2014, 28, 1686-1691.	5.1	14
57	Identification of petroleum profiles by infrared spectroscopy and chemometrics. <i>Fuel</i> , 2019, 254, 115670.	6.4	14
58	Determination of API Gravity and Total and Basic Nitrogen Content by Mid- and Near-Infrared Spectroscopy in Crude Oil with Multivariate Regression and Variable Selection Tools. <i>Analytical Letters</i> , 2019, 52, 2914-2930.	1.8	14
59	Thermal and spectroscopic analyses of guar gum degradation submitted to turbulent flow. <i>International Journal of Biological Macromolecules</i> , 2019, 131, 43-49.	7.5	14
60	Residues from the Brazilian pepper tree (<i>Schinus terebinthifolia</i> Raddi) processing industry: Chemical profile and antimicrobial activity of extracts against hospital bacteria. <i>Industrial Crops and Products</i> , 2020, 143, 111430.	5.2	14
61	Variable selection in support vector regression using angular search algorithm and variance inflation factor. <i>Journal of Chemometrics</i> , 2020, 34, e3282.	1.3	14
62	Study of the Influence of Resins on the Asphaltene Aggregates by ¹ H DOSY NMR. <i>Energy & Fuels</i> , 2020, 34, 5679-5688.	5.1	14
63	Portable electronic tongue based on screen-printed electrodes coupled with chemometrics for rapid differentiation of Brazilian lager beer. <i>Food Control</i> , 2021, 127, 108163.	5.5	14
64	Noninvasive Diagnostic for COVID-19 from Saliva Biofluid via FTIR Spectroscopy and Multivariate Analysis. <i>Analytical Chemistry</i> , 2022, 94, 2425-2433.	6.5	14
65	Validation of the near Infrared Spectroscopy Method for Determining Soil Organic Carbon by Employing a Proficiency Assay for Fertility Laboratories. <i>Journal of Near Infrared Spectroscopy</i> , 2016, 24, 293-303.	1.5	13
66	DropMS: Petroleomics Data Treatment Based in Web Server for High-Resolution Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1483-1490.	2.8	13
67	Quantification of cocaine and its adulterants by nuclear magnetic resonance spectroscopy without deuterated solvents (No-D qNMR). <i>Analytical Methods</i> , 2018, 10, 1685-1694.	2.7	12
68	Characterization of crude oils with a portable NIR spectrometer. <i>Microchemical Journal</i> , 2022, 181, 107696.	4.5	12
69	Experimento didático de quimiometria para calibração multivariada na determinação de paracetamol em comprimidos comerciais utilizando espectroscopia no infravermelho próximo: um tutorial, parte II. <i>Química Nova</i> , 2013, 36, 1057-1065.	0.3	11
70	Viagra® and Cialis® blister packaging fingerprinting using Fourier transform infrared spectroscopy (FTIR) allied with chemometric methods. <i>Analytical Methods</i> , 2014, 6, 2722.	2.7	11
71	Metabolomics by NMR Spectroscopy in Plant Disease diagnostic: Huanglongbing as a Case Study. <i>ChemistrySelect</i> , 2016, 1, 1176-1178.	1.5	11
72	Evaluating the effect of ion source gas (N ₂ , He, and synthetic air) on the ionization of hydrocarbon, condensed aromatic standards, and paraffin fractions by APCI(+)-FT-ICR MS. <i>Fuel</i> , 2018, 225, 632-645.	6.4	11

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73	Study of chemical profile and of lines crossing using blue and black ink pens by LDI (+) MS and LDI (+) imaging. <i>Microchemical Journal</i> , 2019, 148, 220-229.	4.5	11
74	Multivariate data analysis applied in the evaluation of crude oil blends. <i>Fuel</i> , 2019, 239, 421-428.	6.4	11
75	Analysis of Robusta coffee cultivated in agroforestry systems (AFS) by ESI-FT-ICR MS and portable NIR associated with sensory analysis. <i>Journal of Food Composition and Analysis</i> , 2020, 94, 103637.	3.9	11
76	Study of Distillation Temperature Curves from Brazilian Crude Oil by ¹ H Nuclear Magnetic Resonance Spectroscopy in Association with Partial Least Squares Regression. <i>Energy & Fuels</i> , 2017, 31, 3892-3897.	5.1	10
77	Irrigation improves plant vitality in specific stages of mango tree development according to photosynthetic efficiency. <i>Photosynthetica</i> , 2019, 57, 820-829.	1.7	9
78	Determination of gross calorific value in crude oil by variable selection methods applied to ¹³ C NMR spectroscopy. <i>Fuel</i> , 2022, 311, 122527.	6.4	9
79	Assessment of robustness on analysis using headspace solid-phase microextraction and comprehensive two-dimensional gas chromatography through experimental designs. <i>Talanta</i> , 2014, 129, 303-308.	5.5	8
80	Prediction of Total Acid Number in Distillation Cuts of Crude Oil by ESI(+) FT-ICR MS Coupled with Chemometric Tools. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	8
81	Quantification of capsaicinoids from chili peppers using ¹ H NMR without deuterated solvent. <i>Analytical Methods</i> , 2019, 11, 1939-1950.	2.7	8
82	Study of the mechanical degradation mechanism of guar gum in turbulent flow by FTIR. <i>International Journal of Biological Macromolecules</i> , 2019, 121, 23-28.	7.5	8
83	Lactose quantification in bovine milk by nuclear magnetic resonance without deuterated solvent (No-D qNMR). <i>Analytical Methods</i> , 2020, 12, 4892-4898.	2.7	8
84	Estimating the intermediate precision in petroleum analysis by (A±)electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8861.	1.5	8
85	Particle swarm optimization and ordered predictors selection applied in NMR to predict crude oil properties. <i>Fuel</i> , 2020, 279, 118462.	6.4	8
86	Improving the physicochemical properties of Brazilian onshore and offshore crude oils using the production of blends. <i>Fuel</i> , 2015, 159, 607-613.	6.4	6
87	Exploring the chemical profile of designer drugs by ESI(+) and PSI(+) mass spectrometry—An approach on the fragmentation mechanisms and chemometric analysis. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4596.	1.6	6
88	Different strategies for the use of random forest in NMR spectra. <i>Journal of Chemometrics</i> , 2020, 34, e3231.	1.3	6
89	Use of portable Raman spectroscopy in the quality control of extra virgin olive oil and adulterated compound oils. <i>Vibrational Spectroscopy</i> , 2021, 116, 103299.	2.2	6
90	SAP fractions from light, medium and heavy oils: Correlation between chemical profile and stationary phases. <i>Fuel</i> , 2020, 274, 117866.	6.4	5

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91	Quantification of the contents in biojet fuel blends using near infrared spectroscopy and multivariate calibration. <i>Analytical Methods</i> , 2017, 9, 4616-4621.	2.7	4
92	Determination of flash point and Reid vapor pressure in petroleum from HTGC and DHA associated with chemometrics. <i>Fuel</i> , 2018, 234, 643-649.	6.4	4
93	Controlling the quality of grape juice adulterated by apple juice using ESI(-)FT-ICR mass spectrometry. <i>Microchemical Journal</i> , 2019, 149, 104033.	4.5	4
94	Comparing the Intermediate Precision in Petroleomics by Ultrahigh-Resolution Mass Spectrometry. <i>Energy & Fuels</i> , 2021, 35, 16465-16481.	5.1	4
95	Portable Raman spectroscopy applied to the study of drugs of abuse. <i>Journal of Forensic Sciences</i> , 2022, , .	1.6	4
96	Simultaneous Determination of Different Phenolic Compounds Using Electrochemical Biosensor and Multivariate Calibration. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	3
97	Study of the effect of Eucalyptus globulus lignin and Schinus terebinthifolius tannin extract on water in oil emulsions of heavy oil. <i>Fuel</i> , 2020, 264, 116816.	6.4	3
98	Preparation of a Nitrogen Oil Compound Fraction by Modified Gel Silica Column Chromatography. <i>Energy & Fuels</i> , 2020, 34, 5652-5664.	5.1	3
99	Differentiation of Toxic and Non-Toxic Leaves of <i>Jatropha curcas</i> L. Genotypes by Leaf Spray Mass Spectrometry. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	2
100	Spectroscopic evaluation of commercial H ₂ S scavengers. <i>Fuel</i> , 2018, 216, 681-685.	6.4	2
101	Study of Inorganic Profiles of Street Cocaine Samples Using ICP-MS and ICP OES. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	2
102	Design experiments to detect and quantify soybean oil in extra virgin olive oil using portable Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2021, 116, 103294.	2.2	2
103	Improvement on Pour Point of Heavy Oils by Adding Organic Solvents. <i>Revista Virtual De Quimica</i> , 2017, 9, 2404-2413.	0.4	2
104	Multi-Element Evaluation in Black Pepper (<i>Piper nigrum</i> L.) According to the Processing. <i>Journal of the Brazilian Chemical Society</i> , 2020, , .	0.6	1
105	Agro Residues of <i>Dendranthema x grandiflorum</i> as Raw Material for a Potential Larvicidal Product. <i>Waste and Biomass Valorization</i> , 2021, 12, 725-734.	3.4	1
106	Use of the Comprehensive Two-Dimensional Gas Chromatography (GC $\tilde{\text{A}}$ —GC-qMS) to Characterize The Classes of Saturated Compounds in Brazilian crude Oils. <i>Revista Virtual De Quimica</i> , 2018, 10, 977-988.	0.4	1
107	STUDY OF SCOTT TEST USING SPECTROSCOPIC TECHNIQUES: AN ALTERNATIVE METHOD FOR DETECTING COCAINE HYDROCHLORIDE AND ITS ADDULTERANTS IN STREET DRUGS. <i>Quimica Nova</i> , 2014, , .	0.3	1
108	Chemical Concepts Involved in Beer Production: A Review. <i>Revista Virtual De Quimica</i> , 2020, 12, 120-147.	0.4	1

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109	Study of the Naphthenic Corrosion of AISI 316 and AISI 1020 Steels by Light, Scanning Electron and Atomic Force Microscopies (LM, SEM and AFM). Journal of the Brazilian Chemical Society, 0, , .	0.6	0
110	Analytical methods to assess larvicidal compounds in extracts from <i>Dendranthema x grandiflorum</i> (Ramat.) Kitam. residues. Chemical Papers, 2021, 75, 3035-3046.	2.2	0
111	Use of a Portable Microscope Combined with a Smartphone to Determine the Authenticity of Brazilian Banknotes and National Driver's Licenses. Journal of the Brazilian Chemical Society, 0, , .	0.6	0