

# Paulo Roberto Filgueiras

## List of Publications by Citations

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105  
papers

1,150  
citations

20  
h-index

27  
g-index

111  
ext. papers

1,312  
ext. citations

4.2  
avg. IF

4.56  
L-index

#	Paper	IF	Citations
105	Portable near infrared spectroscopy applied to quality control of Brazilian coffee. <i>Talanta</i> , <b>2018</b> , 176, 59-68	6	62
104	Determination of API gravity, kinematic viscosity and water content in petroleum by ATR-FTIR spectroscopy and multivariate calibration. <i>Fuel</i> , <b>2014</b> , 116, 123-130	7	46
103	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> , <b>2014</b> , 139, 4908-16	4.8	40
102	Determination of Saturates, Aromatics, and Polars in Crude Oil by <sup>13</sup> C NMR and Support Vector Regression with Variable Selection by Genetic Algorithm. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 1972-1978	4	35
101	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> , <b>2014</b> , 119, 582-9	6	32
100	Determination of some physicochemical properties in Brazilian crude oil by <sup>1</sup> H NMR spectroscopy associated to chemometric approach. <i>Fuel</i> , <b>2016</b> , 181, 660-669	7	31
99	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> , <b>2016</b> , 176, 146-152	7	30
98	Quantification of biodiesel in petroleum diesel by <sup>1</sup> H NMR: Evaluation of univariate and multivariate approaches. <i>Fuel</i> , <b>2016</b> , 166, 12-18	7	29
97	Evaluation of trends in residuals of multivariate calibration models by permutation test. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2014</b> , 133, 33-41	3.7	29
96	Thin layer chromatography coupled to paper spray ionization mass spectrometry for cocaine and its adulterants analysis. <i>Forensic Science International</i> , <b>2016</b> , 262, 56-65	2.5	27
95	Study of the stability and homogeneity of water in oil emulsions of heavy oil. <i>Fuel</i> , <b>2018</b> , 226, 278-285	7	25
94	Sulfur Determination in Brazilian Petroleum Fractions by Mid-infrared and Near-infrared Spectroscopy and Partial Least Squares Associated with Variable Selection Methods. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 698-705	4	25
93	Portable near infrared spectroscopy applied to fuel quality control. <i>Talanta</i> , <b>2018</b> , 176, 26-33	6	23
92	Prediction of the distillation temperatures of crude oils using <sup>1</sup> H NMR and support vector regression with estimated confidence intervals. <i>Talanta</i> , <b>2015</b> , 142, 197-205	6	23
91	Multivariate optimisation of ICP OES instrumental parameters for Pb/Ba/Sb measurement in gunshot residues. <i>Microchemical Journal</i> , <b>2015</b> , 120, 58-63	4.6	22
90	Laser desorption ionization FT-ICR mass spectrometry and CARSPLS for predicting basic nitrogen and aromatics contents in crude oils. <i>Fuel</i> , <b>2015</b> , 160, 274-281	7	22
89	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> , <b>2016</b> , 56, 73-9	1.9	22

88	Portable near infrared spectroscopy applied to abuse drugs and medicine analyses. <i>Analytical Methods</i> , <b>2018</b> , 10, 593-603	3.1	21
87	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> , <b>2015</b> , 118, 19-25	4.6	21
86	Study of the effect of temperature and gas condensate addition on the viscosity of heavy oils. <i>Journal of Petroleum Science and Engineering</i> , <b>2016</b> , 142, 163-169	4.3	20
85	Membrane lipid profile monitored by mass spectrometry detected differences between fresh and vitrified in vitro-produced bovine embryos. <i>Zygote</i> , <b>2015</b> , 23, 732-41	1.6	20
84	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> , <b>2020</b> , 159, 105544	4.6	19
83	Salinidade em petróleo bruto: otimização de metodologia e proposta de um novo método para extração de sais em petróleo. <i>Química Nova</i> , <b>2010</b> , 33, 607-612	0.7	19
82	Paper spray ionization mass spectrometry allied to chemometric tools for quantification of whisky adulteration with additions of sugarcane spirit. <i>Analytical Methods</i> , <b>2018</b> , 10, 1952-1960	3.1	18
81	Quantification of cocaine and its adulterants (lidocaine and levamisole) using the Dragendorff reagent allied to paper spray ionization mass spectrometry. <i>Analytical Methods</i> , <b>2017</b> , 9, 3662-3668	3.1	17
80	FTIR, 1H and 13C NMR data fusion to predict crude oils properties. <i>Fuel</i> , <b>2020</b> , 263, 116721	7	16
79	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> , <b>2016</b> , 124, 26-30	4.6	15
78	Use of Random forest in the identification of important variables. <i>Microchemical Journal</i> , <b>2019</b> , 145, 1122-1134	4.6	15
77	Integrative analysis to select cancer candidate biomarkers to targeted validation. <i>Oncotarget</i> , <b>2015</b> , 6, 43635-52	3.1	15
76	Banknote analysis by portable near infrared spectroscopy. <i>Forensic Chemistry</i> , <b>2018</b> , 8, 57-63	2.7	13
75	Determination of physicochemical properties of biodiesel and blends using low-field NMR and multivariate calibration. <i>Fuel</i> , <b>2019</b> , 237, 745-752	7	13
74	Quantification of milk adulterants (starch, H <sub>2</sub> O <sub>2</sub> , and NaClO) using colorimetric assays coupled to smartphone image analysis. <i>Microchemical Journal</i> , <b>2020</b> , 156, 104968	4.6	13
73	Chemical profiles of Robusta and Arabica coffee by ESI(FT-ICR MS and ATR-FTIR: a quantitative approach. <i>Analytical Methods</i> , <b>2016</b> , 8, 7678-7688	3.1	13
72	Extraction and isolation of cannabinoids from marijuana seizures and characterization by H NMR allied to chemometric tools. <i>Science and Justice - Journal of the Forensic Science Society</i> , <b>2018</b> , 58, 355-365	1.9	13
71	Determination of crude oil physicochemical properties by high-temperature gas chromatography associated with multivariate calibration. <i>Fuel</i> , <b>2018</b> , 220, 389-395	7	12

70	Evaluation of calibration transfer methods using the ATR-FTIR technique to predict density of crude oil. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2017</b> , 166, 7-13	3.7	12
69	New methodology for heavy oil desalination. <i>Fuel</i> , <b>2015</b> , 150, 705-710	7	12
68	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> , <b>2016</b> , 8, 7632-7637	3.1	12
67	Limitations of the Pour Point Measurement and the Influence of the Oil Composition on Its Detection Using Principal Component Analysis. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 1686-1691	4	12
66	Quality control of ethanol fuel: Assessment of adulteration with methanol using <sup>1</sup> H NMR. <i>Fuel</i> , <b>2014</b> , 135, 387-392	7	13
65	Monitoring the polyamide 11 degradation by thermal properties and X-ray fluorescence spectrometry allied to chemometric methods. <i>X-Ray Spectrometry</i> , <b>2013</b> , 42, 79-86	0.8	11
64	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	3.1	11
63	Quantification of cocaine and its adulterants by nuclear magnetic resonance spectroscopy without deuterated solvents (No-D qNMR). <i>Analytical Methods</i> , <b>2018</b> , 10, 1685-1694	3.1	10
62	Determination of physicochemical properties of petroleum using <sup>1</sup> H NMR spectroscopy combined with multivariate calibration. <i>Fuel</i> , <b>2019</b> , 253, 320-326	7	10
61	Oil recovery from water-based drilling fluid waste. <i>Fuel</i> , <b>2019</b> , 237, 335-343	7	10
60	Quantification of beef, pork, and chicken in ground meat using a portable NIR spectrometer. <i>Vibrational Spectroscopy</i> , <b>2020</b> , 111, 103158	2	10
59	Chemical and sensory profile of new genotypes of Brazilian <i>Coffea canephora</i> . <i>Food Chemistry</i> , <b>2020</b> , 310, 125850	8.2	9
58	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> , <b>2016</b> , 24, 293-303	1.5	9
57	Rheological study of the behavior of water-in-oil emulsions of heavy oils. <i>Journal of Petroleum Science and Engineering</i> , <b>2019</b> , 173, 1323-1331	4.3	8
56	Study of the Influence of Resins on the Asphaltene Aggregates by <sup>1</sup> H DOSY NMR. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 5679-5688	4	8
55	Study of Distillation Temperature Curves from Brazilian Crude Oil by <sup>1</sup> H Nuclear Magnetic Resonance Spectroscopy in Association with Partial Least Squares Regression. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 3892-3897	4	7
54	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> , <b>2019</b> , 52, 2914-2930	2.1	7
53	Identification of petroleum profiles by infrared spectroscopy and chemometrics. <i>Fuel</i> , <b>2019</b> , 254, 115670	7	7

52	Multivariate data analysis applied in the evaluation of crude oil blends. <i>Fuel</i> , <b>2019</b> , 239, 421-428	7	7
51	Metabolomics by NMR Spectroscopy in Plant Disease diagnostic: Huanglongbing as a Case Study. <i>ChemistrySelect</i> , <b>2016</b> , 1, 1176-1178	1.8	7
50	Prediction of Total Acid Number in Distillation Cuts of Crude Oil by ESI(Q)FT-ICR MS Coupled with Chemometric Tools. <i>Journal of the Brazilian Chemical Society</i> , <b>2017</b> ,	0.9	7
49	Quantification of capsaicinoids from chili peppers using <sup>1</sup> H NMR without deuterated solvent. <i>Analytical Methods</i> , <b>2019</b> , 11, 1939-1950	3.1	6
48	LDI and MALDI-FT-ICR imaging MS in Cannabis leaves: optimization and study of spatial distribution of cannabinoids. <i>Analytical Methods</i> , <b>2019</b> , 11, 1757-1764	3.1	6
47	Analytical methods to access the chemical composition of an Euphorbia tirucalli anticancer latex from traditional Brazilian medicine. <i>Journal of Ethnopharmacology</i> , <b>2019</b> , 237, 255-265	4.8	6
46	Improving the physicochemical properties of Brazilian onshore and offshore crude oils using the production of blends. <i>Fuel</i> , <b>2015</b> , 159, 607-613	7	6
45	Variable selection in support vector regression using angular search algorithm and variance inflation factor. <i>Journal of Chemometrics</i> , <b>2020</b> , 34, e3282	1.6	6
44	Portable electronic tongue based on screen-printed electrodes coupled with chemometrics for rapid differentiation of Brazilian lager beer. <i>Food Control</i> , <b>2021</b> , 127, 108163	5.9	6
43	Assessment of robustness on analysis using headspace solid-phase microextraction and comprehensive two-dimensional gas chromatography through experimental designs. <i>Talanta</i> , <b>2014</b> , 129, 303-8	6	6
42	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> , <b>2013</b> , 36, 1057-1065	0.7	6
41	Thermal and spectroscopic analyses of guar gum degradation submitted to turbulent flow. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 131, 43-49	7.5	5
40	Study of the mechanical degradation mechanism of guar gum in turbulent flow by FTIR. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 121, 23-28	7.5	5
39	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> , <b>2020</b> , 143, 111430	5.7	5
38	DropMS: Petroleomics Data Treatment Based in Web Server for High-Resolution Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2020</b> , 31, 1483-1490	3.3	5
37	Particle swarm optimization and ordered predictors selection applied in NMR to predict crude oil properties. <i>Fuel</i> , <b>2020</b> , 279, 118462	7	5
36	Multivariate calibration applied to study of volatile predictors of arabica coffee quality. <i>Food Chemistry</i> , <b>2022</b> , 367, 130679	8.2	5
35	Evaluating the effect of ion source gas (N <sub>2</sub> , He, and synthetic air) on the ionization of hydrocarbon, condensed aromatic standards, and paraffin fractions by APCI(+)-FT-ICR MS. <i>Fuel</i> , <b>2018</b> , 225, 632-645	7	4

34	Study of chemical profile and of lines crossing using blue and black ink pens by LDI (+) MS and LDI (+) imaging. <i>Microchemical Journal</i> , <b>2019</b> , 148, 220-229	4.6	4
33	Viagra <sup>®</sup> and Cialis <sup>®</sup> blister packaging fingerprinting using Fourier transform infrared spectroscopy (FTIR) allied with chemometric methods. <i>Analytical Methods</i> , <b>2014</b> , 6, 2722	3.1	4
32	Estimating the intermediate precision in petroleum analysis by (–)electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2020</b> , 34 Suppl 3, e8861	2.1	4
31	Discrimination of oils and fuels using a portable NIR spectrometer. <i>Fuel</i> , <b>2021</b> , 283, 118854	7	4
30	A review of chemometrics models to predict crude oil properties from nuclear magnetic resonance and infrared spectroscopy. <i>Fuel</i> , <b>2021</b> , 303, 121283	7	4
29	Irrigation improves plant vitality in specific stages of mango tree development according to photosynthetic efficiency. <i>Photosynthetica</i> , <b>2019</b> , 57, 820-829	2.1	4
28	SAP fractions from light, medium and heavy oils: Correlation between chemical profile and stationary phases. <i>Fuel</i> , <b>2020</b> , 274, 117866	7	3
27	Quantification of the contents in biojet fuel blends using near infrared spectroscopy and multivariate calibration. <i>Analytical Methods</i> , <b>2017</b> , 9, 4616-4621	3.1	3
26	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> , <b>2016</b> ,	0.9	2
25	Different strategies for the use of random forest in NMR spectra. <i>Journal of Chemometrics</i> , <b>2020</b> , 34, e3231	1.6	2
24	Use of portable Raman spectroscopy in the quality control of extra virgin olive oil and adulterated compound oils. <i>Vibrational Spectroscopy</i> , <b>2021</b> , 116, 103299	2	2
23	Adsorption of anionic surfactant in graphite oxide: A study for treatment of laundry wastewater. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 106858	6.7	2
22	Improvement on Pour Point of Heavy Oils by Adding Organic Solvents. <i>Revista Virtual De Quimica</i> , <b>2017</b> , 9, 2404-2413	0.3	2
21	Spectroscopic evaluation of commercial H <sub>2</sub> S scavengers. <i>Fuel</i> , <b>2018</b> , 216, 681-685	7	1
20	Controlling the quality of grape juice adulterated by apple juice using ESI(-)FT-ICR mass spectrometry. <i>Microchemical Journal</i> , <b>2019</b> , 149, 104033	4.6	1
19	Multi-Element Evaluation in Black Pepper ( <i>Piper nigrum</i> L.) According to the Processing. <i>Journal of the Brazilian Chemical Society</i> , <b>2020</b> ,	0.9	1
18	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> , <b>2020</b> , 55, e4596	2.1	1
17	Study of the effect of Eucalyptus globulus lignin and Schinus terebinthifolius tannin extract on water in oil emulsions of heavy oil. <i>Fuel</i> , <b>2020</b> , 264, 116816	7	1

16	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> , <b>2020</b> , 94, 103637	3.9	1
15	Lactose quantification in bovine milk by nuclear magnetic resonance without deuterated solvent (No-D qNMR). <i>Analytical Methods</i> , <b>2020</b> , 12, 4892-4898	3.1	1
14	Simultaneous Determination of Different Phenolic Compounds Using Electrochemical Biosensor and Multivariate Calibration. <i>Journal of the Brazilian Chemical Society</i> , <b>2017</b> ,	0.9	1
13	Agro Residues of <i>Dendranthema x grandiflorum</i> as Raw Material for a Potential Larvicidal Product. <i>Waste and Biomass Valorization</i> , <b>2021</b> , 12, 725-734	3.1	1
12	Design experiments to detect and quantify soybean oil in extra virgin olive oil using portable Raman spectroscopy. <i>Vibrational Spectroscopy</i> , <b>2021</b> , 116, 103294	2	1
11	Determination of gross calorific value in crude oil by variable selection methods applied to <sup>13</sup> C NMR spectroscopy. <i>Fuel</i> , <b>2021</b> , 122527	7	1
10	STUDY OF SCOTT TEST USING SPECTROSCOPIC TECHNIQUES: AN ALTERNATIVE METHOD FOR DETECTING COCAINE HYDROCHLORIDE AND ITS ADDULTERANTS IN STREET DRUGS. <i>Quimica Nova</i> , <b>2014</b> ,	0.7	1
9	Use of the Comprehensive Two-Dimensional Gas Chromatography (GC/C-qMS) to Characterize The Classes of Saturated Compounds in Brazilian crude Oils. <i>Revista Virtual De Quimica</i> , <b>2018</b> , 10, 977-988	0.3	1
8	Determination of flash point and Reid vapor pressure in petroleum from HTGC and DHA associated with chemometrics. <i>Fuel</i> , <b>2018</b> , 234, 643-649	7	0
7	Environmental impacts related to drilling fluid waste and treatment methods: A critical review. <i>Fuel</i> , <b>2022</b> , 310, 122301	7	0
6	Chemical Concepts Involved in Beer Production: A Review. <i>Revista Virtual De Quimica</i> , <b>2020</b> , 12, 120-147	0.3	0
5	Preparation of a Nitrogen Oil Compound Fraction by Modified Gel Silica Column Chromatography. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 5652-5664	4	
4	Analytical methods to assess larvicidal compounds in extracts from <i>Dendranthema x grandiflorum</i> (Ramat.) Kitam. residues. <i>Chemical Papers</i> , <b>2021</b> , 75, 3035-3046	1.9	
3	Chemical and sensory discrimination of coffee: impacts of the planting altitude and fermentation. <i>European Food Research and Technology</i> , <sup>1</sup>	3.2	0
2	Characterization of naphthenic acids in crude oil samples DA literature review. <i>Fuel</i> , <b>2022</b> , 319, 123775	7	0
1	Comparing the Intermediate Precision in Petroleomics by Ultrahigh-Resolution Mass Spectrometry. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 16465-16481	4	