

# Ronei J Poppi

## List of Publications by Year in descending order

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288  
papers

8,289  
citations

50244

46  
h-index

88593

70  
g-index

292  
all docs

292  
docs citations

292  
times ranked

8617  
citing authors

#	ARTICLE	IF	CITATIONS
1	Second- and third-order multivariate calibration: data, algorithms and applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2007, 26, 752-765.	5.8	294
2	Least-squares support vector machines and near infrared spectroscopy for quantification of common adulterants in powdered milk. <i>Analytica Chimica Acta</i> , 2006, 579, 25-32.	2.6	253
3	Determination of amylose content in starch using Raman spectroscopy and multivariate calibration analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 2693-2701.	1.9	192
4	Discrimination of management effects on soil parameters by using principal component analysis: a multivariate analysis case study. <i>Soil and Tillage Research</i> , 2002, 67, 171-181.	2.6	137
5	Determination of organic matter in soils using radial basis function networks and near infrared spectroscopy. <i>Analytica Chimica Acta</i> , 2002, 453, 125-134.	2.6	124
6	Variable Selection, Outlier Detection, and Figures of Merit Estimation in a Partial Least-Squares Regression Multivariate Calibration Model. A Case Study for the Determination of Quality Parameters in the Alcohol Industry by Near-Infrared Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 8331-8338.	2.4	123
7	Discrimination between authentic and counterfeit banknotes using Raman spectroscopy and PLS-DA with uncertainty estimation. <i>Microchemical Journal</i> , 2013, 109, 170-177.	2.3	120
8	Application of Wavelet Transform To Extract the Relevant Component from Spectral Data for Multivariate Calibration. <i>Analytical Chemistry</i> , 1997, 69, 4317-4323.	3.2	109
9	Application of mid infrared spectroscopy and iPLS for the quantification of contaminants in lubricating oil. <i>Vibrational Spectroscopy</i> , 2005, 37, 27-32.	1.2	106
10	Random forest as one-class classifier and infrared spectroscopy for food adulteration detection. <i>Food Chemistry</i> , 2019, 293, 323-332.	4.2	103
11	Comparison and application of near-infrared (NIR) and mid-infrared (MIR) spectroscopy for determination of quality parameters in soybean samples. <i>Food Control</i> , 2014, 35, 227-232.	2.8	98
12	Support vector machines in tandem with infrared spectroscopy for geographical classification of green arabica coffee. <i>LWT - Food Science and Technology</i> , 2017, 76, 330-336.	2.5	90
13	Determination of doxorubicin in human plasma by excitation-emission matrix fluorescence and multi-way analysis. <i>Analytica Chimica Acta</i> , 2003, 493, 69-81.	2.6	89
14	N-way PLS applied to simultaneous spectrophotometric determination of acetylsalicylic acid, paracetamol and caffeine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004, 34, 27-34.	1.4	87
15	Exploratory analysis of the volatile profile of beers by HS-SPME-GC. <i>Food Chemistry</i> , 2008, 111, 1057-1063.	4.2	87
16	Biodiesel content determination in diesel fuel blends using near infrared (NIR) spectroscopy and support vector machines (SVM). <i>Talanta</i> , 2013, 104, 155-161.	2.9	84
17	Determination of the total unsaturation in vegetable oils by Fourier transform Raman spectroscopy and multivariate calibration. <i>Vibrational Spectroscopy</i> , 2001, 26, 99-105.	1.2	83
18	Comparison of Multivariate Calibration Techniques Applied to Experimental NIR Data Sets. <i>Applied Spectroscopy</i> , 2000, 54, 608-623.	1.2	81

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19	Classification of Amazonian rosewood essential oil by Raman spectroscopy and PLS-DA with reliability estimation. <i>Talanta</i> , 2013, 117, 305-311.	2.9	81
20	Identification of gasoline adulteration using comprehensive two-dimensional gas chromatography combined to multivariate data processing. <i>Journal of Chromatography A</i> , 2008, 1201, 176-182.	1.8	76
21	Visible and near infrared spectroscopy coupled to random forest to quantify some soil quality parameters. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 191, 454-462.	2.0	75
22	Application of two- and three-way chemometric methods in the study of acetylsalicylic acid and ascorbic acid mixtures using ultraviolet spectrophotometry. <i>Analytica Chimica Acta</i> , 2000, 409, 159-170.	2.6	71
23	A portable SERS method for the determination of uric acid using a paper-based substrate and multivariate curve resolution. <i>Analyt, The</i> , 2016, 141, 1966-1972.	1.7	70
24	Determination of aqueous antibiotic solutions using SERS nanogratings. <i>Analytica Chimica Acta</i> , 2017, 982, 148-155.	2.6	70
25	Direct determination of diclofenac in pharmaceutical formulations containing B vitamins by using UV spectrophotometry and partial least squares regression. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004, 36, 743-749.	1.4	68
26	Quantitative analysis of piroxicam polymorphs pharmaceutical mixtures by hyperspectral imaging and chemometrics. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2011, 106, 198-204.	1.8	67
27	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.	3.4	66
28	Determination of diesel quality parameters using support vector regression and near infrared spectroscopy for an in-line blending optimizer system. <i>Fuel</i> , 2012, 97, 710-717.	3.4	65
29	Optimization and validation of a LIBS method for the determination of macro and micronutrients in sugar cane leaves. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1453.	1.6	64
30	Multivariate curve resolution combined with gas chromatography to enhance analytical separation in complex samples: A review. <i>Analytica Chimica Acta</i> , 2012, 731, 11-23.	2.6	64
31	Standard addition method applied to the urinary quantification of nicotine in the presence of cotinine and anabasine using surface enhanced Raman spectroscopy and multivariate curve resolution. <i>Analytica Chimica Acta</i> , 2013, 760, 53-59.	2.6	63
32	Digital Protocol for Chemical Analysis at Ultralow Concentrations by Surface-Enhanced Raman Scattering. <i>Analytical Chemistry</i> , 2018, 90, 1248-1254.	3.2	63
33	Determination of organic matter in soil using near-infrared spectroscopy and partial least squares regression. <i>Communications in Soil Science and Plant Analysis</i> , 2002, 33, 1607-1615.	0.6	62
34	Determination of alcohol content in beverages using short-wave near-infrared spectroscopy and temperature correction by transfer calibration procedures. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 377, 695-701.	1.9	62
35	Metabolic Profiling of Human Blood Serum from Treated Patients with Bipolar Disorder Employing $^1\text{H}$ NMR Spectroscopy and Chemometrics. <i>Analytical Chemistry</i> , 2009, 81, 9755-9763.	3.2	60
36	Estado da arte de figuras de mérito em calibração multivariada. <i>Quimica Nova</i> , 2009, 32, 1278-1287.	0.3	59

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37	Investigation of the pH effect and UV radiation on kinetic degradation of anthocyanin mixtures extracted from Hibiscus acetosella. Food Chemistry, 2011, 125, 1020-1027.	4.2	58
38	Fourier transform near-infrared spectroscopy (FT-NIRS) application to estimate Brazilian soybean [Glycine max (L.) Merrill] composition. Food Research International, 2013, 51, 53-58.	2.9	54
39	Detection of malathion in food peels by surface-enhanced Raman imaging spectroscopy and multivariate curve resolution. Analytica Chimica Acta, 2015, 879, 24-33.	2.6	53
40	Water solubilization of ethanol and BTEX from gasoline: on-line monitoring by membrane introduction mass spectrometry. Analyst, The, 2002, 127, 230-234.	1.7	52
41	Combining standard addition method and second-order advantage for direct determination of salicylate in undiluted human plasma by spectrofluorimetry. Talanta, 2006, 68, 1707-1712.	2.9	52
42	Simple, Expendable, 3D-Printed Microfluidic Systems for Sample Preparation of Petroleum. Analytical Chemistry, 2017, 89, 3460-3467.	3.2	52
43	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. Analyst, The, 2014, 139, 4908-4916.	1.7	50
44	Simultaneous optimization by neuro-genetic approach for analysis of plant materials by laser induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 565-572.	1.5	49
45	Determination of apparent reducing sugars, moisture and acidity in honey by attenuated total reflectance-Fourier transform infrared spectrometry. Talanta, 2007, 71, 1926-1931.	2.9	48
46	Three-way chemometric method study and UV-Vis absorbance for the study of simultaneous degradation of anthocyanins in flowers of the Hibiscus rosa-sinensis species. Talanta, 2004, 62, 299-305.	2.9	47
47	Liquid-Liquid Equilibrium Data for Reactional Systems of Ethanolysis at 298.3 K. Journal of Chemical & Engineering Data, 2008, 53, 5-15.	1.0	47
48	Non-destructive fraud detection in rosehip oil by MIR spectroscopy and chemometrics. Food Chemistry, 2016, 209, 228-233.	4.2	47
49	Application of artificial neural networks to the classification of soils from São Paulo state using near-infrared spectroscopy. Analyst, The, 2001, 126, 2194-2200.	1.7	46
50	Simultaneous determination of acetylsalicylic acid, paracetamol and caffeine using solid-phase molecular fluorescence and parallel factor analysis. Analytica Chimica Acta, 2009, 642, 212-216.	2.6	46
51	Characterization of semi-solid Self-Emulsifying Drug Delivery Systems (SEDDS) of atorvastatin calcium by Raman image spectroscopy and chemometrics. Journal of Pharmaceutical and Biomedical Analysis, 2013, 73, 3-12.	1.4	46
52	Discrimination of the type of biodiesel/diesel blend (B5) using mid-infrared spectroscopy and PLS-DA. Fuel, 2015, 142, 222-226.	3.4	46
53	Heart fossilization is possible and informs the evolution of cardiac outflow tract in vertebrates. ELife, 2016, 5, e14698.	2.8	46
54	Authentication and identification of adulterants in virgin coconut oil using ATR/FTIR in tandem with DD-SIMCA one class modeling. Talanta, 2020, 219, 121338.	2.9	45

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55	Quantitative analysis of essential oils in perfume using multivariate curve resolution combined with comprehensive two-dimensional gas chromatography. <i>Analytica Chimica Acta</i> , 2011, 699, 120-125.	2.6	44
56	Fabrication of gold nanoparticle-coated paper and its use as a sensitive substrate for quantitative SERS analysis. <i>Mikrochimica Acta</i> , 2016, 183, 2745-2752.	2.5	43
57	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> , 2016, 30, 1972-1978.	2.5	43
58	Fast discrimination of bacteria using a filter paper-based SERS platform and PLS-DA with uncertainty estimation. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 705-713.	1.9	43
59	Determination of pesticides and metabolites in wine by high performance liquid chromatography and second-order calibration methods. <i>Journal of Chromatography A</i> , 2007, 1148, 200-210.	1.8	42
60	Determination of disease biomarkers in Eucalyptus by comprehensive two-dimensional gas chromatography and multivariate data analysis. <i>Journal of Chromatography A</i> , 2013, 1279, 86-91.	1.8	42
61	Quality evaluation of frozen guava and yellow passion fruit pulps by NIR spectroscopy and chemometrics. <i>Food Research International</i> , 2016, 85, 209-214.	2.9	42
62	Simultaneous determination of vitamins C, B6 and PP in pharmaceuticals using differential pulse voltammetry with a glassy carbon electrode and multivariate calibration tools. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005, 38, 94-99.	1.4	41
63	Validation of multivariate calibration models in the determination of sugar cane quality parameters by near infrared spectroscopy. <i>Journal of the Brazilian Chemical Society</i> , 2007, 18, .	0.6	40
64	Raman spectroscopy and chemometrics for <i>in-line</i> control of glucose fermentation by <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Progress</i> , 2012, 28, 1598-1604.	1.3	40
65	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.	2.9	40
66	Figures of merit for the determination of the polymorphic purity of carbamazepine by infrared spectroscopy and multivariate calibration. <i>Journal of Pharmaceutical Sciences</i> , 2004, 93, 2124-2134.	1.6	39
67	Quantification of moxifloxacin in urine using surface-enhanced Raman spectroscopy (SERS) and multivariate curve resolution on a nanostructured gold surface. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 7671-7677.	1.9	39
68	Evaluation of trends in residuals of multivariate calibration models by permutation test. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014, 133, 33-41.	1.8	39
69	Study of volatile profile in cocoa nibs, cocoa liquor and chocolate on production process using GC-MS. <i>Microchemical Journal</i> , 2018, 141, 353-361.	2.3	39
70	Determination of organic matter in soils by FTIR/diffuse reflectance and multivariate calibration. <i>Journal of Chemometrics</i> , 1999, 13, 265-273.	0.7	38
71	Rapid differentiation among bacteria that cause gastroenteritis by use of low-resolution Raman spectroscopy and PLS discriminant analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 383, 701-706.	1.9	38
72	Application of near infrared spectroscopy and multivariate control charts for monitoring biodiesel blends. <i>Analytica Chimica Acta</i> , 2009, 642, 217-221.	2.6	38

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73	Quality Control of Commercial Cocoa Beans ( <i>Theobroma cacao</i> L.) by Near-infrared Spectroscopy. <i>Food Analytical Methods</i> , 2018, 11, 1510-1517.	1.3	38
74	Quantitative analysis of biodiesel in blends of biodiesel and conventional diesel by comprehensive two-dimensional gas chromatography and multivariate curve resolution. <i>Analytica Chimica Acta</i> , 2013, 796, 130-136.	2.6	37
75	Direct determination of propranolol in urine by spectrofluorimetry with the aid of second order advantage. <i>Analytica Chimica Acta</i> , 2007, 595, 282-288.	2.6	36
76	Evolving factor analysis-based method for correcting monitoring delay in different batch runs for use with PLS: On-line monitoring of a transesterification reaction by ATR-FTIR. <i>Talanta</i> , 2008, 74, 971-976.	2.9	36
77	Detection of explosives on the surface of banknotes by Raman hyperspectral imaging and independent component analysis. <i>Analytica Chimica Acta</i> , 2015, 860, 15-22.	2.6	36
78	Quantification of Kerosene in Gasoline by Comprehensive Two-Dimensional Gas Chromatography and <i>N</i> -Way Multivariate Analysis. <i>Analytical Letters</i> , 2008, 41, 1603-1614.	1.0	35
79	Metabolomics and lipidomics analyses by <sup>1</sup> H nuclear magnetic resonance of schizophrenia patient serum reveal potential peripheral biomarkers for diagnosis. <i>Schizophrenia Research</i> , 2017, 185, 182-189.	1.1	35
80	Bilinear least squares (BLLS) and molecular fluorescence in the quantification of the propranolol enantiomers. <i>Analytica Chimica Acta</i> , 2008, 623, 38-45.	2.6	34
81	Direct analysis of the main chemical constituents in <i>Chenopodium quinoa</i> grain using Fourier transform near-infrared spectroscopy. <i>Food Control</i> , 2015, 48, 91-95.	2.8	33
82	Quantification of conventional and advanced biofuels contents in diesel fuel blends using near-infrared spectroscopy and multivariate calibration. <i>Fuel</i> , 2016, 165, 379-388.	3.4	33
83	Fractionation of asphaltenes in n-hexane and on adsorption onto CaCO <sub>3</sub> and characterization by ESI(+)-FT-ICR MS: Part I. <i>Fuel</i> , 2017, 210, 790-802.	3.4	33
84	Removing the moisture effect in soil organic matter determination using NIR spectroscopy and PLSR with external parameter orthogonalization. <i>Microchemical Journal</i> , 2019, 145, 1094-1101.	2.3	33
85	Optimised NLC: a nanotechnological approach to improve the anaesthetic effect of bupivacaine. <i>International Journal of Pharmaceutics</i> , 2017, 529, 253-263.	2.6	32
86	The optimal brain surgeon for pruning neural network architecture applied to multivariate calibration. <i>Analytica Chimica Acta</i> , 1998, 375, 187-195.	2.6	31
87	Multivariate quality control of lubricating oils using Fourier transform infrared spectroscopy. <i>Journal of the Brazilian Chemical Society</i> , 2004, 15, 570-576.	0.6	31
88	Simultaneous optimization by neuro-genetic approach of a multiresidue method for determination of pesticides in <i>Passiflora alata</i> infuses using headspace solid phase microextraction and gas chromatography. <i>Journal of Chromatography A</i> , 2007, 1138, 251-261.	1.8	31
89	Use of NIR hyperspectral imaging and multivariate curve resolution (MCR) for detection and quantification of adulterants in milk powder. <i>LWT - Food Science and Technology</i> , 2017, 76, 337-343.	2.5	31
90	Characterization of the aroma profile of novel Brazilian wines by solid-phase microextraction using polymeric ionic liquid sorbent coatings. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 4749-4762.	1.9	31

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91	Peripheral biomarkers allow differential diagnosis between schizophrenia and bipolar disorder. <i>Journal of Psychiatric Research</i> , 2019, 119, 67-75.	1.5	31
92	Spectrophotometric determination of organic dye mixtures by using multivariate calibration. <i>Talanta</i> , 1998, 47, 77-84.	2.9	30
93	Quantification of <i>Lactobacillus</i> 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
94	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.	3.4	30
95	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> , 2015, 142, 197-205.	2.9	30
96	Comparison of PLS and SVM models for soil organic matter and particle size using vis-NIR spectral libraries. <i>Geoderma Regional</i> , 2021, 27, e00436.	0.9	30
97	Determination of propranolol enantiomers in plasma and urine by spectrofluorimetry and second-order standard addition method. <i>Analytica Chimica Acta</i> , 2009, 651, 31-35.	2.6	29
98	Differentiation of cocoa nibs from distinct origins using comprehensive two-dimensional gas chromatography and multivariate analysis. <i>Food Research International</i> , 2016, 90, 133-138.	2.9	29
99	Multivariate calibration applied to a highly interfering chemical system. <i>Analytica Chimica Acta</i> , 2000, 423, 31-40.	2.6	28
100	Simultaneous determination of hydrocarbon renewable diesel, biodiesel and petroleum diesel contents in diesel fuel blends using near infrared (NIR) spectroscopy and chemometrics. <i>Analyst</i> , The, 2013, 138, 6477.	1.7	28
101	NIR imaging spectroscopy for quantification of constituents in polymers thin films loaded with paracetamol. <i>Analytica Chimica Acta</i> , 2013, 765, 37-44.	2.6	28
102	Quantification of soybean biodiesels in diesel blends according to ASTM E1655 using mid-infrared spectroscopy and multivariate calibration. <i>Fuel</i> , 2014, 117, 1111-1114.	3.4	28
103	Quality control of cashew apple and guava nectar by near infrared spectroscopy. <i>Journal of Food Composition and Analysis</i> , 2017, 56, 41-46.	1.9	28
104	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
105	Improved catalysis of Morita-Baylis-Hillman reaction. The strong synergic effect using both an imidazolic ionic liquid and a temperature. <i>Tetrahedron Letters</i> , 2009, 50, 1184-1187.	0.7	27
106	Analysis of pharmaceutical pellets: An approach using near-infrared chemical imaging. <i>Analytica Chimica Acta</i> , 2011, 706, 113-119.	2.6	27
107	Monitoring of multiple solid-state transformations at tablet surfaces using multi-series near-infrared hyperspectral imaging and multivariate curve resolution. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 93, 224-230.	2.0	27
108	Raman hyperspectral imaging in conjunction with independent component analysis as a forensic tool for explosive analysis: The case of an ATM explosion. <i>Talanta</i> , 2017, 174, 628-632.	2.9	27

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109	Direct sampling tandem mass spectrometry (MS/MS) and multiway calibration for isomer quantitation. <i>Analyst</i> , The, 2002, 127, 1054-1060.	1.7	26
110	Liquid-Liquid Equilibrium Data for Systems Containing Vegetable Oils, Anhydrous Ethanol, and Hexane at (313.15, 318.15, and 328.15) K. <i>Journal of Chemical &amp; Engineering Data</i> , 2009, 54, 1850-1859.	1.0	26
111	Prediction of the physicochemical properties of gasoline by comprehensive two-dimensional gas chromatography and multivariate data processing. <i>Journal of Chromatography A</i> , 2011, 1218, 1663-1667.	1.8	26
112	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.	1.3	26
113	Neuro-genetic multioptimization of the determination of polychlorinated biphenyl congeners in human milk by headspace solid phase microextraction coupled to gas chromatography with electron capture detection. <i>Analytica Chimica Acta</i> , 2007, 585, 66-75.	2.6	25
114	Fourier transform infrared microspectroscopy as a bacterial source tracking tool to discriminate fecal <i>E. coli</i> strains. <i>Microchemical Journal</i> , 2011, 99, 15-19.	2.3	25
115	Experimento didático de quimiometria para análise exploratória de óleos vegetais comestíveis por espectroscopia no infravermelho médio e análise de componentes principais: um tutorial, parte I. <i>Química Nova</i> , 2012, 35, 223-229.	0.3	25
116	Quantification of residual automotive lubricant oil as an adulterant in Brazilian S-10 diesel using MIR spectroscopy and PLS. <i>Fuel</i> , 2014, 130, 257-262.	3.4	25
117	Evaluation of dietary fiber of Brazilian soybean ( <i>Glycine max</i> ) using near-infrared spectroscopy and chemometrics. <i>Journal of Cereal Science</i> , 2015, 64, 43-47.	1.8	25
118	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.	2.3	25
119	Cleaner and faster method to detect adulteration in cassava starch using Raman spectroscopy and one-class support vector machine. <i>Food Control</i> , 2021, 125, 107917.	2.8	25
120	Correlation of quantitative sensorial descriptors and chromatographic signals of beer using multivariate calibration strategies. <i>Food Chemistry</i> , 2012, 134, 1673-1681.	4.2	24
121	Characterization of sildenafil citrate tablets of different sources by near infrared chemical imaging and chemometric tools. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013, 85, 207-212.	1.4	24
122	Green methodology for soil organic matter analysis using a national near infrared spectral library in tandem with learning machine. <i>Science of the Total Environment</i> , 2019, 658, 895-900.	3.9	24
123	Fast and straightforward in-situ synthesis of gold nanoparticles on a thread-based microfluidic device for application in surface-enhanced Raman scattering detection. <i>Microchemical Journal</i> , 2020, 156, 104985.	2.3	24
124	<sup>1</sup> H-NMR, <sup>1</sup> H-NMR T <sub>2</sub> -edited, and 2D-NMR in bipolar disorder metabolic profiling. <i>International Journal of Bipolar Disorders</i> , 2017, 5, 23.	0.8	23
125	Rapid Assessment of Total Phenolic and Anthocyanin Contents in Grape Juice Using Infrared Spectroscopy and Multivariate Calibration. <i>Food Analytical Methods</i> , 2017, 10, 1609-1615.	1.3	23
126	Rapid Discrimination Between Authentic and Adulterated Andiroba Oil Using FTIR-HATR Spectroscopy and Random Forest. <i>Food Analytical Methods</i> , 2018, 11, 1927-1935.	1.3	23



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127	Application of Kohonen neural network to exploratory analyses of synchrotron radiation x-ray fluorescence measurements of sunflower metalloproteins. <i>X-Ray Spectrometry</i> , 2007, 36, 122-129.	0.9	22
128	Fast Detection of Adulterants/Contaminants in Biodiesel/Diesel Blend (B5) Employing Mid-Infrared Spectroscopy and PLS-DA. <i>Energy &amp; Fuels</i> , 2015, 29, 227-232.	2.5	22
129	Near infrared hyperspectral imaging and MCR-ALS applied for mapping chemical composition of the wood specie <i>Swietenia Macrophylla</i> King (Mahogany) at microscopic level. <i>Microchemical Journal</i> , 2016, 124, 356-363.	2.3	22
130	Comparison of different chemometric methods to extract chemical and physical information from Raman images of homogeneous and heterogeneous semi-solid pharmaceutical formulations. <i>International Journal of Pharmaceutics</i> , 2018, 552, 119-129.	2.6	22
131	Quantitative analysis by comprehensive two-dimensional gas chromatography using interval Multi-way Partial Least Squares calibration. <i>Talanta</i> , 2011, 83, 1302-1307.	2.9	21
132	Second order standard addition method and fluorescence spectroscopy in the quantification of ibuprofen enantiomers in biological fluids. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2011, 106, 160-165.	1.8	21
133	Desenvolvimento de um algoritmo para identificação e correção de spikes em espectroscopia raman de imagem. <i>Quimica Nova</i> , 2012, 35, 612-615.	0.3	21
134	Determination of triglycerides in human plasma using near-infrared spectroscopy and multivariate calibration methods. <i>Analytica Chimica Acta</i> , 2001, 446, 39-47.	2.6	20
135	Determination and validation of nimesulide in pharmaceutical formulation by near infrared spectroscopy. <i>Journal of the Brazilian Chemical Society</i> , 2010, 21, 1929-2010.	0.6	20
136	Classification of diesel pool refinery streams through near infrared spectroscopy and support vector machines using C-SVC and $\hat{1}/2$ -SVC. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 117, 389-396.	2.0	20
137	Determination of $17\beta$ -estradiol and noradrenaline in dog serum using surface-enhanced Raman spectroscopy and random Forest. <i>Microchemical Journal</i> , 2016, 128, 95-101.	2.3	20
138	Colloidal gold clusters formation and chemometrics for direct SERS determination of bioanalytes in complex media. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 224, 117380.	2.0	20
139	Paper-based SERS substrate and one-class classifier to monitor thiabendazole residual levels in extracts of mango peels. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 229, 117913.	2.0	20
140	PARAFAC: uma ferramenta quimiométrica para tratamento de dados multidimensionais. Aplicação na determinação direta de fármacos em plasma humano por espectrofluorimetria. <i>Quimica Nova</i> , 2005, 28, 910-920.	0.3	19
141	Application of genetic algorithm for selection of variables for the BLLS method applied to determination of pesticides and metabolites in wine. <i>Analytica Chimica Acta</i> , 2007, 595, 51-58.	2.6	19
142	Multivariate calibrations for the SR-TXRF determination of trace concentrations of lead and arsenic in the presence of bromine. <i>X-Ray Spectrometry</i> , 2006, 35, 79-84.	0.9	18
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