

Celio Pasquini

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128
papers

3,607
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29
h-index

56
g-index

132
ext. papers

4,097
ext. citations

5
avg, IF

6.32
L-index

#	Paper	IF	Citations
128	Near Infrared Spectroscopy: fundamentals, practical aspects and analytical applications. <i>Journal of the Brazilian Chemical Society</i> , 2003 , 14, 198-219	1.5	447
127	Near infrared spectroscopy: A mature analytical technique with new perspectives - A review. <i>Analytica Chimica Acta</i> , 2018 , 1026, 8-36	6.6	426
126	Laser Induced Breakdown Spectroscopy. <i>Journal of the Brazilian Chemical Society</i> , 2007 , 18, 463-512	1.5	253
125	Identification of counterfeit drugs using near-infrared spectroscopy. <i>Analyst, The</i> , 2001 , 126, 2218-24	5	115
124	Comparing the analytical performances of Micro-NIR and FT-NIR spectrometers in the evaluation of acerola fruit quality, using PLS and SVM regression algorithms. <i>Talanta</i> , 2017 , 165, 112-116	6.2	102
123	Classification of Brazilian soils by using LIBS and variable selection in the wavelet domain. <i>Analytica Chimica Acta</i> , 2009 , 642, 12-8	6.6	96
122	Rapid and non-destructive determination of quality parameters in the Tommy Atkins mango using a novel handheld near infrared spectrometer. <i>Food Chemistry</i> , 2016 , 197 Pt B, 1207-14	8.5	92
121	Monosegmented system for continuous flow analysis. Spectrophotometric determination of chromium(VI), ammonia and phosphorus. <i>Analytical Chemistry</i> , 1985 , 57, 2575-2579	7.8	90
120	Determination of total sulfur in diesel fuel employing NIR spectroscopy and multivariate calibration. <i>Analyst, The</i> , 2003 , 128, 1204-7	5	88
119	Characterization of petroleum using near-infrared spectroscopy: Quantitative modeling for the true boiling point curve and specific gravity. <i>Fuel</i> , 2007 , 86, 1927-1934	7.1	75
118	Classification of blue pen ink using infrared spectroscopy and linear discriminant analysis. <i>Microchemical Journal</i> , 2013 , 109, 122-127	4.8	67
117	Simultaneous determination of methanol and ethanol in gasoline using NIR spectroscopy: effect of gasoline composition. <i>Talanta</i> , 2008 , 75, 804-10	6.2	63
116	Near infrared hyperspectral imaging for forensic analysis of document forgery. <i>Analyst, The</i> , 2014 , 139, 5176-84	5	62
115	Quantification of biodiesel and adulteration with vegetable oils in diesel/biodiesel blends using portable near-infrared spectrometer. <i>Fuel</i> , 2015 , 160, 57-63	7.1	58
114	Assessment of infrared spectroscopy and multivariate techniques for monitoring the service condition of diesel-engine lubricating oils. <i>Talanta</i> , 2006 , 70, 344-52	6.2	56
113	Ring-oven based preconcentration technique for microanalysis: simultaneous determination of Na, Fe, and Cu in fuel ethanol by laser induced breakdown spectroscopy. <i>Analytical Chemistry</i> , 2013 , 85, 1547-54	7.8	52
112	A strategy for selecting calibration samples for multivariate modelling. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2004 , 72, 83-91	3.8	50

111	Determination of cellulose crystallinity by terahertz-time domain spectroscopy. <i>Analytical Chemistry</i> , 2014 , 86, 3780-6	7.8	47
110	Flow-injection determination of ammonia in kjeldahl digests by gas diffusion and conductometry. <i>Analytica Chimica Acta</i> , 1987 , 193, 19-27	6.6	47
109	A PLS regression model using NIR spectroscopy for on-line monitoring of the biodiesel production reaction. <i>Fuel</i> , 2011 , 90, 3268-3273	7.1	44
108	Silicone sensing phase for detection of aromatic hydrocarbons in water employing near-infrared spectroscopy. <i>Analytical Chemistry</i> , 2005 , 77, 72-7	7.8	37
107	Classification of gasoline as with or without dispersant and detergent additives using infrared spectroscopy and multivariate classification. <i>Fuel</i> , 2014 , 116, 151-157	7.1	36
106	Direct determination of copper in urine using a sol-gel optical sensor coupled to a multicommutated flow system. <i>Analytical and Bioanalytical Chemistry</i> , 2004 , 380, 108-14	4.4	34
105	Chloride-selective membrane electrodes and optodes based on an indium(III) porphyrin for the determination of chloride in a sequential injection analysis system. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004 , 36, 49-55	3.5	34
104	A compact and low cost laser induced breakdown spectroscopic system: Application for simultaneous determination of chromium and nickel in steel using multivariate calibration. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012 , 69, 20-24	3.1	33
103	A new method for determination of the oxidative stability of edible oils at frying temperatures using near infrared emission spectroscopy. <i>Analytica Chimica Acta</i> , 2006 , 570, 129-135	6.6	30
102	Two-phase liquid-liquid extraction in monosegmented flow analysis. Determination of cadmium with 1-(2-pyridylazo) naphthol. <i>Analytica Chimica Acta</i> , 1995 , 308, 231-237	6.6	30
101	Projection pursuit and PCA associated with near and middle infrared hyperspectral images to investigate forensic cases of fraudulent documents. <i>Microchemical Journal</i> , 2017 , 130, 412-419	4.8	29
100	Flow-injection determination of inorganic forms of nitrogen by gas diffusion and conductimetry. <i>Analytica Chimica Acta</i> , 1991 , 245, 183-190	6.6	29
99	A Complementary Metal Oxide Semiconductor sensor array based detection system for Laser Induced Breakdown Spectroscopy: Evaluation of calibration strategies and application for manganese determination in steel. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008 , 63, 56-63	3.1	28
98	Comparing laser induced breakdown spectroscopy, near infrared spectroscopy, and their integration for simultaneous multi-elemental determination of micro- and macronutrients in vegetable samples. <i>Analytica Chimica Acta</i> , 2019 , 1062, 28-36	6.6	26
97	Application of amperometric sol-gel biosensor to flow injection determination of glucose. <i>Talanta</i> , 2002 , 56, 997-1003	6.2	26
96	Near infrared spectroscopy determination of sucrose, glucose and fructose in sweet sorghum juice. <i>Microchemical Journal</i> , 2017 , 134, 125-130	4.8	25
95	Detecting semen stains on fabrics using near infrared hyperspectral images and multivariate models. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 95, 23-35	14.6	25
94	Near-infrared emission spectrometry based on an acousto-optical tunable filter. <i>Analytical Chemistry</i> , 2005 , 77, 1046-54	7.8	25

93	Gunshot residues: screening analysis by laser-induced breakdown spectroscopy. <i>Journal of the Brazilian Chemical Society</i> , 2009 , 20, 1887-1894	1.5	24
92	A low cost short wave near infrared spectrophotometer: application for determination of quality parameters of diesel fuel. <i>Analytica Chimica Acta</i> , 2010 , 670, 92-7	6.6	23
91	Differential conductimetry in flow injection. Determination of ammonia in Kjeldahl digests. <i>Analyst, The</i> , 1991 , 116, 841	5	22
90	Determination of degree of polymerization of insulating paper using near infrared spectroscopy and multivariate calibration. <i>Vibrational Spectroscopy</i> , 2010 , 52, 154-157	2.1	21
89	Single-phase liquid-liquid extraction in monosegmented continuous-flow systems. <i>Analytica Chimica Acta</i> , 1994 , 285, 287-292	6.6	21
88	Multivariate quantification of mebendazole polymorphs by terahertz time domain spectroscopy (THZ-TDS). <i>Analyst, The</i> , 2017 , 142, 1519-1524	5	20
87	Evaluation of a low-cost portable near-infrared spectrophotometer for in situ cocaine profiling. <i>Talanta</i> , 2019 , 200, 553-561	6.2	19
86	Robust flow-batch coulometric/biamperometric titration system: determination of bromine index and bromine number of petrochemicals. <i>Analytica Chimica Acta</i> , 2007 , 600, 84-9	6.6	19
85	Determination of urea in serum by using naturally immobilized urease in a flow injection conductimetric system. <i>Analyst, The</i> , 1991 , 116, 357-60	5	19
84	Classification of individual cotton seeds with respect to variety using near-infrared hyperspectral imaging. <i>Analytical Methods</i> , 2016 , 8, 8498-8505	3.2	18
83	An assessment of the applicability of the use of a plasticised PVC membrane containing pyrochatecol violet complexing reagent for the determination of Cu ²⁺ ions in aqueous solutions by LIBS. <i>Microchemical Journal</i> , 2013 , 110, 435-438	4.8	18
82	Effect of on-line complex formation kinetics on the flow injection analysis signal: the spectrophotometric determination of chromium(VI). <i>Analyst, The</i> , 1983 , 108, 621	5	18
81	Determination of detergent and dispensant additives in gasoline by ring-oven and near infrared hyperspectral imaging. <i>Analytica Chimica Acta</i> , 2015 , 863, 9-19	6.6	16
80	Evaluation of a Dual-Beam Near-Infrared Spectrometer Based on Acousto-Optic Tunable Filters. <i>Applied Spectroscopy</i> , 2001 , 55, 454-457	3.1	16
79	A comprehensive and fast microplastics identification based on near-infrared hyperspectral imaging (HSI-NIR) and chemometrics. <i>Environmental Pollution</i> , 2021 , 285, 117251	9.3	16
78	Real-time monitoring of distillations by near-infrared spectroscopy. <i>Analytical Chemistry</i> , 2003 , 75, 2270-58		15
77	Dual-Beam Near-Infrared Hadamard Spectrophotometer. <i>Applied Spectroscopy</i> , 2001 , 55, 715-721	3.1	15
76	Detection of flow injection analysis with pH gradient by acousto-optic tunable filter based spectrophotometry. <i>Analytica Chimica Acta</i> , 1996 , 319, 315-324	6.6	15

75	Mechanical removal of the central sample zone to avoid air bubbles in monosegmented continuous flow analysis. <i>Analytical Chemistry</i> , 1986 , 58, 2346-2348	7.8	15
74	iHEART: a miniaturized near-infrared in-line gas sensor using heart-shaped substrate-integrated hollow waveguides. <i>Analyst, The</i> , 2016 , 141, 5298-303	5	15
73	Evaluation of a handheld ultra-compact NIR spectrometer for rapid and non-destructive determination of apple fruit quality. <i>Postharvest Biology and Technology</i> , 2021 , 172, 111375	6.2	15
72	Monosegmented flow titrator. <i>Analytica Chimica Acta</i> , 2001 , 438, 67-74	6.6	14
71	NIR hyperspectral images for identification of gunshot residue from tagged ammunition. <i>Analytical Methods</i> , 2018 , 10, 4711-4717	3.2	14
70	Surface-enhanced Raman spectroscopy and MCR-ALS for the selective sensing of urinary adenosine on filter paper. <i>Talanta</i> , 2018 , 187, 99-105	6.2	13
69	Determination of Hydrogen Peroxide by near Infrared Spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , 2003 , 11, 49-53	1.5	13
68	Determination of Ethanol and Methyl Tert-Butyl Ether (MTBE) in Gasoline by NIR-OTF-based Spectroscopy and Multiple Linear Regression with Variables Selected by Genetic Algorithm. <i>Journal of Near Infrared Spectroscopy</i> , 1998 , 6, 333-339	1.5	13
67	Spectrophotometric determination of a mixture of weak acids using multivariate calibration and flow injection analysis titration. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1993 , 19, 243-254	3.8	13
66	Operator-free flow injection analyser. <i>Journal of Automated Methods and Management in Chemistry</i> , 1991 , 13, 143-6		13
65	NIR-based octane rating simulator for use in gasoline compounding processes. <i>Fuel</i> , 2019 , 243, 381-389	7.1	12
64	Determination of naphtha composition by near infrared spectroscopy and multivariate regression to control steam cracker processes. <i>Fuel Processing Technology</i> , 2015 , 131, 230-237	7.2	12
63	Determination of the oxidative stability of biodiesel using near infrared emission spectroscopy. <i>Fuel</i> , 2014 , 117, 1004-1009	7.1	12
62	Near-infrared spectropolarimetry based on acousto-optical tunable filters. <i>Analytical Chemistry</i> , 2008 , 80, 3175-81	7.8	12
61	A new detection system for laser induced breakdown spectroscopy based on an acousto-optical tunable filter coupled to a photomultiplier: Application for manganese determination in steel. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008 , 63, 1268-1273	3.1	12
60	Spectrophotometric determination of creatinine by monosegmented continuous-flow analysis. <i>Journal of Automated Methods and Management in Chemistry</i> , 1992 , 14, 97-100		11
59	Adaptation of a cold vapour mercury analyser to flow injection analysis. <i>Journal of Automated Methods and Management in Chemistry</i> , 1988 , 10, 188-91		11
58	Near infrared emission spectroscopy for rapid compositional analysis of Portland cements. <i>Analytica Chimica Acta</i> , 2018 , 1024, 136-144	6.6	10

57	Near infrared emission photometer for measuring the oxidative stability of edible oils. <i>Analytica Chimica Acta</i> , 2013 , 796, 101-7	6.6	10
56	Comparison of near-infrared emission spectroscopy and the Rancimat method for the determination of oxidative stability. <i>European Journal of Lipid Science and Technology</i> , 2007 , 109, 61-65	3	10
55	Feasibility of a portable, low-cost near-infrared spectrophotometer for the quality screening of omega-3 dietary supplements. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 189, 113436	3.5	9
54	Multivariate treatment of LIBS data of prehistoric paintings. <i>Journal of the Brazilian Chemical Society</i> , 2012 , 23, 958-965	1.5	9
53	Determination of gaseous species by monosegmented flow systems. Volumetric determination of oxygen and carbon dioxide. <i>Analytica Chimica Acta</i> , 1997 , 349, 377-384	6.6	9
52	Sub-optimal wavelet denoising of coaveraged spectra employing statistics from individual scans. <i>Analytica Chimica Acta</i> , 2007 , 581, 159-67	6.6	9
51	A new approach to flow-batch titration. A monosegmented flow titrator with coulometric reagent generation and potentiometric or biamperometric detection. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 386, 1921-30	4.4	9
50	Non-Destructive Determination of Quality Traits of Cashew Apples (<i>Anacardium Occidentale</i> , L.) Using a Portable near Infrared Spectrophotometer. <i>Journal of Near Infrared Spectroscopy</i> , 2016 , 24, 77-82	1.5	9
49	A Simple Device for Lens-to-Sample Distance Adjustment in Laser-Induced Breakdown Spectroscopy (LIBS). <i>Applied Spectroscopy</i> , 2017 , 71, 634-639	3.1	8
48	Evaluating the potential of near infrared hyperspectral imaging associated with multivariate data analysis for examining crossing ink lines. <i>Forensic Science International</i> , 2019 , 298, 169-176	2.6	8
47	Coupling of the ring-oven-based preconcentration technique and surface-enhanced Raman spectroscopy: Application for the determination of purine bases in DNA. <i>Analytica Chimica Acta</i> , 2017 , 991, 95-103	6.6	8
46	Monitoring the quality of ethanol-based hand sanitizers by low-cost near-infrared spectroscopy. <i>Microchemical Journal</i> , 2020 , 159, 105421	4.8	8
45	A flow system for generation of concentration perturbation in two-dimensional correlation near-infrared spectroscopy: application to variable selection in multivariate calibration. <i>Applied Spectroscopy</i> , 2010 , 64, 507-13	3.1	7
44	Simultaneous multielemental determination using a low-resolution inductively coupled plasma spectrometer/diode array detection system. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1997 , 52, 2151-2161	3.1	7
43	Determination of CO ₂ in gaseous samples using a monosegmented flow system and conductimetric detection. <i>Analytica Chimica Acta</i> , 1998 , 366, 223-229	6.6	7
42	A monosegmented-flow Karl Fischer titrator. <i>Talanta</i> , 2007 , 71, 1288-93	6.2	7
41	Evaluation of the Mooney Viscosity of Natural Rubber by Near-Infrared Spectroscopy. <i>Spectroscopy Letters</i> , 2005 , 38, 741-748	1.1	7
40	Comparing near-infrared conventional diffuse reflectance spectroscopy and hyperspectral imaging for determination of the bulk properties of solid samples by multivariate regression: determination of Mooney viscosity and plasticity indices of natural rubber. <i>Analyst, The</i> , 2015 , 140, 512-22	5	6

39	Multi-electrode detection in voltammetryPart I. A versatile multi-channel voltammetric instrument. <i>Analyst, The</i> , 1998 , 123, 1641-1648	5	6
38	Determination of Gaseous Analytes in Flow Systems: A Review. <i>Journal of the Brazilian Chemical Society</i> , 1999 , 10, 85	1.5	6
37	Bisegmented flow system for determination of low concentrations of gaseous constituents in gaseous samples. <i>Analytica Chimica Acta</i> , 1999 , 393, 121-129	6.6	6
36	Determination of diethyleneglycol content and number of carboxylic end groups in poly(ethylene terephthalate) fibers using imaging and conventional near infrared spectroscopy. <i>Polymer Testing</i> , 2016 , 49, 15-21	4.5	5
35	Near-Infrared Spectroscopy in Laboratory and Process Analysis 2012 ,		5
34	Use of near infrared emission spectroscopy in the study of supporting materials and stationary phases for liquid chromatography. <i>Journal of Chromatography A</i> , 2006 , 1122, 174-9	4.5	5
33	Effect of ethanol in the organic phase on liquid-liquid extraction in monosegmented flow analysis. Determination of zinc in drugs. <i>Talanta</i> , 2002 , 56, 643-53	6.2	5
32	Automated gravimetric management of solutions. Part 1. High-performance microcomputer-controlled gravimetric burette. <i>Analyst, The</i> , 1992 , 117, 905	5	5
31	Comparison of merging zones, injection of reagent and single-line manifolds for enthalpimetric flow injection analysis. <i>Analytica Chimica Acta</i> , 1984 , 156, 307-312	6.6	5
30	Mechanization of measurement of laser induced breakdown spectroscopy/ring-oven pre-concentration: determination of copper in cachaçá. <i>Analytical Methods</i> , 2016 , 8, 7354-7360	3.2	5
29	Multi-electrode detection in voltammetryPart 2. Evaluation of a Hadamard multiplexed voltammetric technique. <i>Analyst, The</i> , 1998 , 123, 1861-1866	5	4
28	Espectroscopia de correlaõ bidimensional: fundamentos, aplicaõs e perspectivas. <i>Química Nova</i> , 2006 , 29, 143-148	1.6	4
27	Multi-electrode detection in voltammetry. Part 3. Effects of array configuration on the Hadamard multiplexed voltammetric technique. <i>Analyst, The</i> , 1999 , 124, 1657-1660	5	4
26	Fast Scanning Hadamard Spectrophotometer. <i>Applied Spectroscopy</i> , 1992 , 46, 1822-1827	3.1	4
25	Method for building a portable near infrared photometer based on LEDs and interference filters chosen by a spectral variable selection algorithm. <i>Microchemical Journal</i> , 2019 , 146, 842-849	4.8	3
24	A new approach to polarimetric measurements based on birefringent crystals and diode lasers. <i>Analytica Chimica Acta</i> , 2013 , 771, 1-6	6.6	3
23	Automated gravimetric management of solutions. Part 2. Automated gravimetric approach to direct potentiometry and kappa number determination. <i>Analyst, The</i> , 1995 , 120, 2763	5	3
22	Automation of a plane grating spectrograph. <i>Journal of Automated Methods and Management in Chemistry</i> , 1996 , 18, 7-15		3

21	Signal-to-noise optimization and evaluation of a home-made visible diode-array spectrophotometer. <i>Journal of Automated Methods and Management in Chemistry</i> , 1993 , 15, 227-32		3
20	Determination of ethanol using flow injection enthalpimetry. <i>Analyst, The</i> , 1988 , 113, 359-60	5	3
19	Determination of water in ethanol and acetone by direct injection enthalpimetry based on the heat of dilution. <i>Talanta</i> , 1984 , 31, 82-4	6.2	3
18	Determination of iron in iron ores using enthalpimetric flow injection analysis. <i>Analyst, The</i> , 1986 , 111, 857	5	3
17	Classification of Ceramic Tableware by Laser Induced Breakdown Spectroscopy and Chemometrics. <i>Analytical Letters</i> , 2020 , 53, 1378-1390	2.2	3
16	A rotational-linear sample probing device to improve the performance of compact near-infrared spectrophotometers. <i>Microchemical Journal</i> , 2021 , 170, 106747	4.8	3
15	Development and preliminary evaluation of a spectrophotopolarimeter based on acoustic-optical tunable filter. <i>Measurement Science and Technology</i> , 2013 , 24, 065902	2	2
14	Near infrared emission spectroscopy induced by ultrasonic irradiation. <i>Ultrasonics Sonochemistry</i> , 2006 , 13, 438-42	8.9	2
13	Gran method for end point anticipation in monosegmented flow titration. <i>Journal of the Brazilian Chemical Society</i> , 2004 , 15,	1.5	2
12	Field Application of NIR Spectroscopy for the Discrimination of the Species That Are Intermediate Hosts of in Brazil. <i>Frontiers in Public Health</i> , 2021 , 9, 636206	6	2
11	Food Quality and NIR Spectroscopy in the Omics Era 2021 , 231-243		2
10	Use of Infrared Spectroscopy and Near Infrared Hyperspectral Images to Evaluate Effects of Different Chemical Agents on PET Bottle Surface. <i>Materials Research</i> , 2018 , 21,	1.5	2
9	Microwave induced plasma optical emission spectrometry (MIP OES) and laser-induced breakdown spectroscopy (LIBS) for multi-element determination and location in ceramic tableware. <i>Microchemical Journal</i> , 2021 , 168, 106452	4.8	2
8	A fast method for determination of surface area of zeolite-based catalysts and zeolites using near infrared emission spectroscopy. <i>Analytical Methods</i> , 2019 , 11, 2819-2825	3.2	1
7	Industrial and Process Analysis Applications. <i>Comprehensive Analytical Chemistry</i> , 2008 , 54, 617-638	1.9	1
6	Development of an analyser to determine the oxygen and carbon dioxide levels in the head-space of packages. <i>Packaging Technology and Science</i> , 1999 , 12, 271-275	2.3	1
5	Determination of the isotopic composition of enriched materials using laser ablation molecular isotopic spectrometry: partial least squares and multivariate curve resolution for the determination of N content in enriched urea. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 4173-4182	4.4	1
4	Effect of the sample measurement representativeness on soil carbon determination using near-infrared compact spectrophotometers. <i>Geoderma</i> , 2022 , 409, 115636	6.7	0

- 3 Feasibility of compact near-infrared spectrophotometers and multivariate data analysis to assess roasted ground coffee traits. *Food Control*, **2022**, 109041 6.2 o
- 2 Flow system for liquid-solid extraction and pre-concentration using a renewable extracting solid phase. *Analytica Chimica Acta*, **2002**, 472, 141-146 6.6
- 1 Feasibility of near-infrared spectroscopy for species identification and parasitological diagnosis of freshwater snails of the genus *Biomphalaria* (Planorbidae). *PLoS ONE*, **2021**, 16, e0259832 3.7