

# Celio Pasquini

## List of Publications by Year in descending order

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129  
papers

4,739  
citations

126708

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110170

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132  
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132  
docs citations

132  
times ranked

4148  
citing authors

#	ARTICLE	IF	CITATIONS
1	Near infrared spectroscopy: A mature analytical technique with new perspectives – A review. <i>Analytica Chimica Acta</i> , 2018, 1026, 8-36.	2.6	677
2	Near Infrared Spectroscopy: fundamentals, practical aspects and analytical applications. <i>Journal of the Brazilian Chemical Society</i> , 2003, 14, 198-219.	0.6	603
3	Laser Induced Breakdown Spectroscopy. <i>Journal of the Brazilian Chemical Society</i> , 2007, 18, 463-512.	0.6	282
4	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.	2.9	145
5	Identification of counterfeit drugs using near-infrared spectroscopy. <i>Analyst, The</i> , 2001, 126, 2218-2224.	1.7	130
6	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, 1207-1214.	4.2	130
7	Monosegmented system for continuous flow analysis. Spectrophotometric determination of chromium(VI), ammonia and phosphorus. <i>Analytical Chemistry</i> , 1985, 57, 2575-2579.	3.2	119
8	Classification of Brazilian soils by using LIBS and variable selection in the wavelet domain. <i>Analytica Chimica Acta</i> , 2009, 642, 12-18.	2.6	106
9	Determination of total sulfur in diesel fuel employing NIR spectroscopy and multivariate calibration. <i>Analyst, The</i> , 2003, 128, 1204-1207.	1.7	104
10	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.	3.4	88
11	Near infrared hyperspectral imaging for forensic analysis of document forgery. <i>Analyst, The</i> , 2014, 139, 5176-5184.	1.7	80
12	Classification of blue pen ink using infrared spectroscopy and linear discriminant analysis. <i>Microchemical Journal</i> , 2013, 109, 122-127.	2.3	79
13	Simultaneous determination of methanol and ethanol in gasoline using NIR spectroscopy: Effect of gasoline composition. <i>Talanta</i> , 2008, 75, 804-810.	2.9	76
14	Quantification of biodiesel and adulteration with vegetable oils in diesel/biodiesel blends using portable near-infrared spectrometer. <i>Fuel</i> , 2015, 160, 57-63.	3.4	69
15	Assessment of infrared spectroscopy and multivariate techniques for monitoring the service condition of diesel-engine lubricating oils. <i>Talanta</i> , 2006, 70, 344-352.	2.9	65
16	Determination of Cellulose Crystallinity by Terahertz-Time Domain Spectroscopy. <i>Analytical Chemistry</i> , 2014, 86, 3780-3786.	3.2	64
17	Flow-injection determination of ammonia in kjeldahl digests by gas diffusion and conductometry. <i>Analytica Chimica Acta</i> , 1987, 193, 19-27.	2.6	63
18	A PLS regression model using NIR spectroscopy for on-line monitoring of the biodiesel production reaction. <i>Fuel</i> , 2011, 90, 3268-3273.	3.4	59

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19	A strategy for selecting calibration samples for multivariate modelling. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2004, 72, 83-91.	1.8	56
20	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, 1547-1554.	3.2	56
21	Classification of gasoline as with or without dispersant and detergent additives using infrared spectroscopy and multivariate classification. <i>Fuel</i> , 2014, 116, 151-157.	3.4	45
22	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.	2.9	45
23	A comprehensive and fast microplastics identification based on near-infrared hyperspectral imaging (HSI-NIR) and chemometrics. <i>Environmental Pollution</i> , 2021, 285, 117251.	3.7	45
24	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.	2.6	42
25	Silicone Sensing Phase for Detection of Aromatic Hydrocarbons in Water Employing Near-Infrared Spectroscopy. <i>Analytical Chemistry</i> , 2005, 77, 72-77.	3.2	41
26	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.	2.3	40
27	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, 108-114.	1.9	39
28	Flow-injection determination of inorganic forms of nitrogen by gas diffusion and conductimetry. <i>Analytica Chimica Acta</i> , 1991, 245, 183-190.	2.6	38
29	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.	1.4	38
30	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.	1.5	38
31	Near infrared spectroscopy determination of sucrose, glucose and fructose in sweet sorghum juice. <i>Microchemical Journal</i> , 2017, 134, 125-130.	2.3	38
32	Detecting semen stains on fabrics using near infrared hyperspectral images and multivariate models. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 95, 23-35.	5.8	38
33	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.	2.6	36
34	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.	2.6	33
35	Gunshot residues: screening analysis by laser-induced breakdown spectroscopy. <i>Journal of the Brazilian Chemical Society</i> , 2009, 20, 1887-1894.	0.6	32
36	Determination of degree of polymerization of insulating paper using near infrared spectroscopy and multivariate calibration. <i>Vibrational Spectroscopy</i> , 2010, 52, 154-157.	1.2	32

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37	Differential conductimetry in flow injection. Determination of ammonia in Kjeldahl digests. <i>Analyst, The</i> , 1991, 116, 841.	1.7	31
38	Classification of individual cotton seeds with respect to variety using near-infrared hyperspectral imaging. <i>Analytical Methods</i> , 2016, 8, 8498-8505.	1.3	29
39	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.	1.7	28
40	Application of amperometric sol-gel biosensor to flow injection determination of glucose. <i>Talanta</i> , 2002, 56, 997-1003.	2.9	28
41	Near-Infrared Emission Spectrometry Based on an Acousto-Optical Tunable Filter. <i>Analytical Chemistry</i> , 2005, 77, 1046-1054.	3.2	28
42	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.	1.5	28
43	Evaluation of a low-cost portable near-infrared spectrophotometer for in situ cocaine profiling. <i>Talanta</i> , 2019, 200, 553-561.	2.9	28
44	Monitoring the quality of ethanol-based hand sanitizers by low-cost near-infrared spectroscopy. <i>Microchemical Journal</i> , 2020, 159, 105421.	2.3	27
45	Determination of urea in serum by using naturally immobilized urease in a flow injection conductimetric system. <i>Analyst, The</i> , 1991, 116, 357.	1.7	26
46	Single-phase liquid-liquid extraction in monosegmented continuous-flow systems. <i>Analytica Chimica Acta</i> , 1994, 285, 287-292.	2.6	25
47	Multivariate quantification of mebendazole polymorphs by terahertz time domain spectroscopy (THZ-TDS). <i>Analyst, The</i> , 2017, 142, 1519-1524.	1.7	25
48	A low cost short wave near infrared spectrophotometer: Application for determination of quality parameters of diesel fuel. <i>Analytica Chimica Acta</i> , 2010, 670, 92-97.	2.6	23
49	An assessment of the applicability of the use of a plasticised PVC membrane containing pyrochatecol violet complexing reagent for the determination of Cu <sup>2+</sup> ions in aqueous solutions by LIBS. <i>Microchemical Journal</i> , 2013, 110, 435-438.	2.3	23
50	NIR hyperspectral images for identification of gunshot residue from tagged ammunition. <i>Analytical Methods</i> , 2018, 10, 4711-4717.	1.3	22
51	Robust flow-batch coulometric/biamperometric titration system: Determination of bromine index and bromine number of petrochemicals. <i>Analytica Chimica Acta</i> , 2007, 600, 84-89.	2.6	21
52	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.	2.6	21
53	Mechanical removal of the central sample zone to avoid air bubbles in monosegmented continuous flow analysis. <i>Analytical Chemistry</i> , 1986, 58, 2346-2348.	3.2	18
54	Evaluation of a Dual-Beam Near-Infrared Spectrometer Based on Acousto-Optic Tunable Filters. <i>Applied Spectroscopy</i> , 2001, 55, 454-457.	1.2	17

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55	Monosegmented flow titrator. <i>Analytica Chimica Acta</i> , 2001, 438, 67-74.	2.6	17
56	Real-Time Monitoring of Distillations by Near-Infrared Spectroscopy. <i>Analytical Chemistry</i> , 2003, 75, 2270-2275.	3.2	17
57	Determination of Hydrogen Peroxide by near Infrared Spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , 2003, 11, 49-53.	0.8	17
58	Detection of flow injection analysis with pH gradient by acousto-optic tunable filter based spectrophotometry. <i>Analytica Chimica Acta</i> , 1996, 319, 315-324.	2.6	16
59	Dual-Beam Near-Infrared Hadamard Spectrophotometer. <i>Applied Spectroscopy</i> , 2001, 55, 715-721.	1.2	16
60	Determination of the oxidative stability of biodiesel using near infrared emission spectroscopy. <i>Fuel</i> , 2014, 117, 1004-1009.	3.4	16
61	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.	1.3	16
62	Determination of Ethanol and Methyl Tert-Butyl Ether (MTBE) in Gasoline by NIR-AOTF-based Spectroscopy and Multiple Linear Regression with Variables Selected by Genetic Algorithm. <i>Journal of Near Infrared Spectroscopy</i> , 1998, 6, 333-339.	0.8	15
63	iHEART: a miniaturized near-infrared in-line gas sensor using heart-shaped substrate-integrated hollow waveguides. <i>Analyst, The</i> , 2016, 141, 5298-5303.	1.7	15
64	Surface-enhanced Raman spectroscopy and MCR-ALS for the selective sensing of urinary adenosine on filter paper. <i>Talanta</i> , 2018, 187, 99-105.	2.9	15
65	NIR-based octane rating simulator for use in gasoline compounding processes. <i>Fuel</i> , 2019, 243, 381-389.	3.4	15
66	Operator-free flow injection analyser. <i>Journal of Automated Methods and Management in Chemistry</i> , 1991, 13, 143-146.	0.4	14
67	Sub-optimal wavelet denoising of coaveraged spectra employing statistics from individual scans. <i>Analytica Chimica Acta</i> , 2007, 581, 159-167.	2.6	14
68	Near-Infrared Spectropolarimetry Based on Acousto-Optical Tunable Filters. <i>Analytical Chemistry</i> , 2008, 80, 3175-3181.	3.2	14
69	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.	3.7	14
70	A Simple Device for Lens-to-Sample Distance Adjustment in Laser-Induced Breakdown Spectroscopy (LIBS). <i>Applied Spectroscopy</i> , 2017, 71, 634-639.	1.2	14
71	Near infrared emission spectroscopy for rapid compositional analysis of Portland cements. <i>Analytica Chimica Acta</i> , 2018, 1024, 136-144.	2.6	14
72	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.	1.8	13

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73	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, 1921-1930.	1.9	13
74	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.	1.0	13
75	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.	1.5	12
76	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.	2.6	11
77	Adaptation of a cold vapour mercury analyser to flow injection analysis. <i>Journal of Automated Methods and Management in Chemistry</i> , 1988, 10, 188-191.	0.4	11
78	Spectrophotometric determination of creatinine by monosegmented continuous-flow analysis. <i>Journal of Automated Methods and Management in Chemistry</i> , 1992, 14, 97-100.	0.4	11
79	Multivariate treatment of LIBS data of prehistoric paintings. <i>Journal of the Brazilian Chemical Society</i> , 2012, 23, 958-965.	0.6	11
80	Near infrared emission photometer for measuring the oxidative stability of edible oils. <i>Analytica Chimica Acta</i> , 2013, 796, 101-107.	2.6	11
81	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.	0.8	10
82	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.	1.4	10
83	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.	2.3	10
84	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.	1.5	9
85	Determination of gaseous species by monosegmented flow systems. Volumetric determination of oxygen and carbon dioxide. <i>Analytica Chimica Acta</i> , 1997, 349, 377-384.	2.6	9
86	Determination of diethyleneglycol content and number of carboxylic end groups in poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2016, 49, 15-21.	2.3	9
87	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.	2.6	9
88	Multi-electrode detection in voltammetry Part I. A versatile multi-channel voltammetric instrument. <i>Analyst, The</i> , 1998, 123, 1641-1648.	1.7	8
89	Evaluation of the Mooney Viscosity of Natural Rubber by Near Infrared Spectroscopy. <i>Spectroscopy Letters</i> , 2005, 38, 741-748.	0.5	8
90	Automated gravimetric management of solutions. Part 1. High-performance microcomputer-controlled gravimetric burette. <i>Analyst, The</i> , 1992, 117, 905.	1.7	7

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91	Determination of CO <sub>2</sub> in gaseous samples using a monosegmented flow system and conductimetric detection. <i>Analytica Chimica Acta</i> , 1998, 366, 223-229.	2.6	7
92	Determination of Gaseous Analytes in Flow Systems: A Review. <i>Journal of the Brazilian Chemical Society</i> , 1999, 10, 85.	0.6	7
93	Bisegmented flow system for determination of low concentrations of gaseous constituents in gaseous samples. <i>Analytica Chimica Acta</i> , 1999, 393, 121-129.	2.6	7
94	A monosegmented-flow Karl Fischer titrator. <i>Talanta</i> , 2007, 71, 1288-1293.	2.9	7
95	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, 507-513.	1.2	7
96	Determination of ethanol using flow injection enthalpimetry. <i>Analyst, The</i> , 1988, 113, 359.	1.7	6
97	Automated gravimetric management of solutions. Part 2. Automated gravimetric approach to direct potentiometry and kappa number determination. <i>Analyst, The</i> , 1995, 120, 2763.	1.7	6
98	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, 643-653.	2.9	6
99	Espectroscopia de correla�o bidimensional: fundamentos, aplica�es e perspectivas. <i>Quimica Nova</i> , 2006, 29, 143-148.	0.3	6
100	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, 512-522.	1.7	6
101	A rotational-linear sample probing device to improve the performance of compact near-infrared spectrophotometers. <i>Microchemical Journal</i> , 2021, 170, 106747.	2.3	6
102	Multi-electrode detection in voltammetry Part 2. Evaluation of a Hadamard multiplexed voltammetric technique. <i>Analyst, The</i> , 1998, 123, 1861-1866.	1.7	5
103	Multi-electrode detection in voltammetry. <i>Analyst, The</i> , 1999, 124, 1657-1660.	1.7	5
104	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, 174-179.	1.8	5
105	Mechanization of measurement of laser induced breakdown spectroscopy/ring-oven pre-concentration: determination of copper in cacha�a. <i>Analytical Methods</i> , 2016, 8, 7354-7360.	1.3	5
106	Classification of Ceramic Tableware by Laser Induced Breakdown Spectroscopy and Chemometrics. <i>Analytical Letters</i> , 2020, 53, 1378-1390.	1.0	5
107	Field Application of NIR Spectroscopy for the Discrimination of the Biomphalaria Species That Are Intermediate Hosts of Schistosoma mansoni in Brazil. <i>Frontiers in Public Health</i> , 2021, 9, 636206.	1.3	5
108	Feasibility of compact near-infrared spectrophotometers and multivariate data analysis to assess roasted ground coffee traits. <i>Food Control</i> , 2022, 138, 109041.	2.8	5

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109	Determination of water in ethanol and acetone by direct injection enthalpimetry based on the heat of dilution. <i>Talanta</i> , 1984, 31, 82-84.	2.9	4
110	Determination of iron in iron ores using enthalpimetric flow injection analysis. <i>Analyst, The</i> , 1986, 111, 857.	1.7	4
111	Fast Scanning Hadamard Spectrophotometer. <i>Applied Spectroscopy</i> , 1992, 46, 1822-1827.	1.2	4
112	Automation of a plane grating spectrograph. <i>Journal of Automated Methods and Management in Chemistry</i> , 1996, 18, 7-15.	0.4	4
113	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.	2.3	4
114	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 <sup>15</sup> N content in enriched urea. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 4173-4182.	1.9	4
115	Effect of the sample measurement representativeness on soil carbon determination using near-infrared compact spectrophotometers. <i>Geoderma</i> , 2022, 409, 115636.	2.3	4
116	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, 227-232.	0.4	3
117	A new approach to polarimetric measurements based on birefringent crystals and diode lasers. <i>Analytica Chimica Acta</i> , 2013, 771, 1-6.	2.6	3
118	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, .	0.6	3
119	Gran method for end point anticipation in monosegmented flow titration. <i>Journal of the Brazilian Chemical Society</i> , 2004, 15, .	0.6	3
120	Near infrared emission spectroscopy induced by ultrasonic irradiation. <i>Ultrasonics Sonochemistry</i> , 2006, 13, 438-442.	3.8	2
121	Industrial and Process Analysis Applications. <i>Comprehensive Analytical Chemistry</i> , 2008, 54, 617-638.	0.7	2
122	Development and preliminary evaluation of a spectrophotopolarimeter based on acoustic-optical tunable filter. <i>Measurement Science and Technology</i> , 2013, 24, 065902.	1.4	2
123	Food Quality and NIR Spectroscopy in the Omics Era. , 2021, , 231-243.		2
124	Flow system for liquid sample introduction in arc/spark excitation sources. <i>Analyst, The</i> , 1996, 121, 1923.	1.7	1
125	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.	1.3	1
126	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.	1.3	1

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127	Feasibility of near-infrared spectroscopy for species identification and parasitological diagnosis of freshwater snails of the genus <i>Biomphalaria</i> (Planorbidae). PLoS ONE, 2021, 16, e0259832.	1.1	1
128	Flow system for liquid-liquid extraction and pre-concentration using a renewable extracting solid phase. <i>Analytica Chimica Acta</i> , 2002, 472, 141-146.	2.6	0
129	Flow system for pre-concentration and spectrophotometric determination of reactive mercury. <i>Journal of the Brazilian Chemical Society</i> , 2005, 16, 928-935.	0.6	0