

Manel Alcalá Berná rdez

List of Publications by Year in descending order

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42
papers

1,576
citations

331670

21
h-index

302126

39
g-index

44
all docs

44
docs citations

44
times ranked

1424
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of recent, unconventional applications of ion mobility spectrometry (IMS). <i>Analytica Chimica Acta</i> , 2011, 703, 114-123.	5.4	207
2	Real-time monitoring of drug concentration in a continuous powder mixing process using NIR spectroscopy. <i>Chemical Engineering Science</i> , 2010, 65, 5728-5733.	3.8	182
3	Content uniformity and tablet hardness testing of intact pharmaceutical tablets by near infrared spectroscopy. <i>Analytica Chimica Acta</i> , 2006, 557, 353-359.	5.4	127
4	A process analytical technology approach based on near infrared spectroscopy: Tablet hardness, content uniformity, and dissolution test measurements of intact tablets. <i>Journal of Pharmaceutical Sciences</i> , 2006, 95, 2137-2144.	3.3	111
5	On-line monitoring of a granulation process by NIR spectroscopy. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 336-345.	3.3	89
6	Qualitative and Quantitative Pharmaceutical Analysis with a Novel Hand-Held Miniature near Infrared Spectrometer. <i>Journal of Near Infrared Spectroscopy</i> , 2013, 21, 445-457.	1.5	75
7	Near infrared spectroscopy in the study of polymorphic transformations. <i>Analytica Chimica Acta</i> , 2006, 567, 262-268.	5.4	57
8	Simultaneous quantitation of five active principles in a pharmaceutical preparation: Development and validation of a near infrared spectroscopic method. <i>European Journal of Pharmaceutical Sciences</i> , 2006, 27, 280-286.	4.0	55
9	Determination of drug, excipients and coating distribution in pharmaceutical tablets using NIR-CL. <i>Journal of Pharmaceutical Analysis</i> , 2012, 2, 90-97.	5.3	50
10	Analysis of low content drug tablets by transmission near infrared spectroscopy: Selection of calibration ranges according to multivariate detection and quantitation limits of PLS models. <i>Journal of Pharmaceutical Sciences</i> , 2008, 97, 5318-5327.	3.3	49
11	Real-time determination of critical quality attributes using near-infrared spectroscopy: A contribution for Process Analytical Technology (PAT). <i>Talanta</i> , 2012, 97, 163-170.	5.5	41
12	Preparing calibration sets for use in pharmaceutical analysis by NIR spectroscopy. <i>Journal of Pharmaceutical Sciences</i> , 2008, 97, 1236-1245.	3.3	39
13	Calibration sets selection strategy for the construction of robust PLS models for prediction of biodiesel/diesel blends physico-chemical properties using NIR spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 180, 119-126.	3.9	39
14	Detection and characterization of emerging psychoactive substances by ion mobility spectrometry. <i>Drug Testing and Analysis</i> , 2015, 7, 280-289.	2.6	37
15	API Determination by NIR Spectroscopy Across Pharmaceutical Production Process. <i>AAPS PharmSciTech</i> , 2008, 9, 1130-1135.	3.3	33
16	Quality by design approach of a pharmaceutical gel manufacturing process, part 1: Determination of the design space. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 4432-4441.	3.3	28
17	Pharmaceutical gel analysis by NIR spectroscopy. <i>European Journal of Pharmaceutical Sciences</i> , 2008, 33, 409-414.	4.0	27
18	Strategies for constructing the calibration set for a near infrared spectroscopic quantitation method. <i>Talanta</i> , 2004, 64, 597-602.	5.5	26

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19	Characterization of the Composition of Paraffin Waxes on Industrial Applications. Energy & Fuels, 2014, 28, 956-963.	5.1	26
20	Near-Infrared Spectroscopy for the In-Line Characterization of Powder Voiding Part II: Quantification of Enhanced Flow Properties of Surface Modified Active Pharmaceutical Ingredients. Journal of Pharmaceutical Innovation, 2010, 5, 1-13.	2.4	24
21	Near-infrared Spectroscopy for the In-line Characterization of Powder Voiding Part I: Development of the Methodology. Journal of Pharmaceutical Innovation, 2009, 4, 187-197.	2.4	23
22	Analysis of ecstasy in oral fluid by ion mobility spectrometry and infrared spectroscopy after liquid-liquid extraction. Journal of Chromatography A, 2015, 1384, 1-8.	3.7	23
23	Quality control of cosmetic mixtures by NIR spectroscopy. Analytical and Bioanalytical Chemistry, 2007, 389, 1577-1583.	3.7	22
24	Quality by design approach of a pharmaceutical gel manufacturing process, part 2: Near infrared monitoring of composition and physical parameters. Journal of Pharmaceutical Sciences, 2011, 100, 4442-4451.	3.3	20
25	Deconvolution of Chemical Physical Information from Intact Tablets NIR Spectra: Two-Three-Way Multivariate Calibration Strategies for Drug Quantitation. Journal of Pharmaceutical Sciences, 2009, 98, 2747-2758.	3.3	16
26	Ion mobility spectrometry evaluation of cocaine occupational exposure in forensic laboratories. Talanta, 2014, 130, 251-258.	5.5	16
27	Near-Infrared Imaging for High-Throughput Screening of Moisture Induced Changes in Freeze-Dried Formulations. Journal of Pharmaceutical Sciences, 2014, 103, 2839-2846.	3.3	13
28	Noninvasive Double Confirmation of Cocaine Abuse. Analytical Chemistry, 2013, 85, 11382-11390.	6.5	12
29	Multivariate Calibration for Quantitative Analysis. , 2009, , 51-82.		11
30	Strategies for Selecting the Calibration Set in Pharmaceutical Near Infrared Spectroscopy Analysis. A Comparative Study. Journal of Pharmaceutical Innovation, 2014, 9, 272-281.	2.4	11
31	Strategy for design NIR calibration sets based on process spectrum and model space: An innovative approach for process analytical technology. Journal of Pharmaceutical and Biomedical Analysis, 2015, 114, 28-33.	2.8	11
32	Geographical origin discrimination and polysaccharides quantitative analysis of <i>Radix codonopsis</i> with micro near-infrared spectrometer engine. Journal of Innovative Optical Health Sciences, 2018, 11, .	1.0	10
33	Determination of trace impurities in cosmetic intermediates by ion mobility spectrometry. Analytica Chimica Acta, 2011, 708, 69-74.	5.4	9
34	Near infrared spectroscopy combined with multivariate analysis for monitoring the ethanol precipitation process of fraction I+II+III supernatant in human albumin separation. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 175, 17-23.	3.9	9
35	Design and In-line Raman Spectroscopic Monitoring of a Protein Batch Crystallization Process. Journal of Pharmaceutical Innovation, 2008, 3, 271-279.	2.4	8
36	Assessment of Chemometric Methods for the Non-Invasive Monitoring of Solid Blending Processes Using Wireless near Infrared Spectroscopy. Journal of Near Infrared Spectroscopy, 2013, 21, 97-106.	1.5	7

#	ARTICLE	IF	CITATIONS
37	Study of ϵ -caprolactone polymerization by NIR spectroscopy. Analytical and Bioanalytical Chemistry, 2010, 397, 3575-3579.	3.7	6
38	Near Infrared Spectroscopy: A useful technique for inline monitoring of the enzyme catalyzed biosynthesis of third-generation biodiesel from waste cooking oil. Fuel, 2022, 319, 123794.	6.4	6
39	Use of Near-Infrared Spectroscopy for Off-Line Measurements in the Pharmaceutical Industry. , 0, , 362-391.		4
40	Ion mobility spectrometry for the simultaneous determination of diacetyl midecamycin and detergents in cleaning validation. Journal of Pharmaceutical and Biomedical Analysis, 2013, 83, 265-272.	2.8	3
41	A Procedure for Developing Quantitative Near Infrared (NIR) Methods for Pharmaceutical Products. Methods in Pharmacology and Toxicology, 2016, , 133-158.	0.2	3
42	Non-Destructive Dissolution Testing by NIR Spectroscopy. NIR News, 2007, 18, 9-11.	0.3	1