Rodolfo J Romanach

List of Publications by Year
in descending order

76	1,822	236925 25	289244 40
papers	citations	h-index	g-index

98	98	98	1263
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Residence time distribution as a traceability method for lot changes in a pharmaceutical continuous manufacturing system. International Journal of Pharmaceutics, 2022, 611, 121313.	5.2	2
2	Quantitative analysis of blend uniformity within a Three-Chamber feed frame using simultaneously Raman and Near-Infrared spectroscopy. International Journal of Pharmaceutics, 2022, 613, 121417.	5.2	1
3	Continuous dry granulation. , 2022, , 93-118.		0
4	Fractal and Polarization Properties of Light Scattering Using Microcrystalline Pharmaceutical Aggregates. Applied Spectroscopy, 2021, 75, 94-106.	2.2	0
5	An innovative sampling interface for monitoring flowing pharmaceutical powder mixtures. Journal of Pharmaceutical and Biomedical Analysis, 2021, 194, 113785.	2.8	2
6	Real-time concentration monitoring using a compact composite sensor array for in situ quality control of aqueous formulations. Journal of Pharmaceutical and Biomedical Analysis, 2021, 206, 114386.	2.8	3
7	Monitoring of high-load dose formulations based on co-processed and non co-processed excipients. International Journal of Pharmaceutics, 2021, 606, 120910.	5.2	6
8	Method transfer of a near-infrared spectroscopic method for blend uniformity in a poorly flowing and hygroscopic blend. Journal of Pharmaceutical and Biomedical Analysis, 2020, 180, 113054.	2.8	8
9	A sampling system for flowing powders based on the theory of sampling. International Journal of Pharmaceutics, 2020, 574, 118874.	5.2	7
10	Real-time quantification of low-dose cohesive formulations within a sampling interface for flowing powders. International Journal of Pharmaceutics, 2020, 588, 119726.	5.2	5
11	In-line monitoring of low drug concentration of flowing powders in a new sampler device. International Journal of Pharmaceutics, 2020, 583, 119358.	5.2	6
12	Statistical Methods in Quality by Design and Process Analytical Technologies for Continuous Processes to Enable Real-Time Release. AAPS Advances in the Pharmaceutical Sciences Series, 2020, , 361-393.	0.6	1
13	Near-infrared spectroscopic applications in pharmaceutical particle technology. Drug Development and Industrial Pharmacy, 2019, 45, 1565-1589.	2.0	35
14	Feed frame: The last processing step before the tablet compaction in pharmaceutical manufacturing. International Journal of Pharmaceutics, 2019, 572, 118728.	5.2	19
15	Assessment of blend uniformity in a continuous tablet manufacturing process. International Journal of Pharmaceutics, 2019, 560, 322-333.	5.2	52
16	Variographic analysis: A new methodology for quality assurance of pharmaceutical blending processes. Computers and Chemical Engineering, 2019, 124, 109-123.	3.8	18
17	Development of near infrared spectroscopic calibration models for in-line determination of low drug concentration, bulk density, and relative specific void volume within a feed frame. Journal of Pharmaceutical and Biomedical Analysis, 2019, 164, 211-222.	2.8	25
18	Process analytical technology in continuous manufacturing of a commercial pharmaceutical product. International Journal of Pharmaceutics, 2018, 538, 167-178.	5.2	92

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19	Determining the number of significant figures for reporting NIR results. NIR News, 2018, 29, 15-17.	0.3	2
20	In line monitoring of the powder flow behavior and drug content in a Fette 3090 feed frame at different operating conditions using Near Infrared spectroscopy. Journal of Pharmaceutical and Biomedical Analysis, 2018, 154, 384-396.	2.8	31
21	Theory of Sampling (TOS). , 2018, , 53-91.		3
22	Evaluation of Analytical and Sampling Errors in the Prediction of the Active Pharmaceutical Ingredient Concentration in Blends From a Continuous Manufacturing Process. Journal of Pharmaceutical Innovation, 2017, 12, 155-167.	2.4	27
23	Study of near infrared chemometric models with low heterogeneity films: The role of optical sampling and spectral preprocessing on partial least squares errors. Journal of Near Infrared Spectroscopy, 2017, 25, 103-115.	1.5	8
24	Assessment of Robustness for a Near-Infrared Concentration Model for Real-Time Release Testing in a Continuous Manufacturing Process. Journal of Pharmaceutical Innovation, 2017, 12, 14-25.	2.4	12
25	Near Infrared Spectroscopy: From Feasibility to Implementation in the Pharmaceutical Industry. NIR News, 2016, 27, 33-38.	0.3	1
26	Characterization of resonant acoustic mixing using near-infrared chemical imaging. Powder Technology, 2016, 297, 349-356.	4.2	32
27	Near infrared spectroscopic calibration models for real time monitoring of powder density. International Journal of Pharmaceutics, 2016, 512, 61-74.	5.2	53
28	Effect of Shear Applied During a Pharmaceutical Process on Near Infrared Spectra. Applied Spectroscopy, 2016, 70, 455-466.	2.2	6
29	Linear and Nonlinear Calibration Methods for Predicting Mechanical Properties of Polypropylene Pellets Using Raman Spectroscopy. Applied Spectroscopy, 2016, 70, 1118-1127.	2.2	4
30	Prediction of dissolution profiles by non-destructive near infrared spectroscopy in tablets subjected to different levels of strain. Journal of Pharmaceutical and Biomedical Analysis, 2016, 117, 568-576.	2.8	54
31	Near infrared spectroscopic transmittance measurements for pharmaceutical powder mixtures. Journal of Pharmaceutical and Biomedical Analysis, 2016, 123, 120-127.	2.8	18
32	Adequacy and verifiability of pharmaceutical mixtures and dose units by variographic analysis (Theory) Tj ETQq0 0 0 rgBT /Overlock 10 T 499, 156-174.	5.2	44
33	Near-infrared chemical imaging and its correlation with the mechanical properties of chitosanâ€“gelatin edible films. Carbohydrate Polymers, 2016, 136, 409-417.	10.2	14
34	A Procedure for Developing Quantitative Near Infrared (NIR) Methods for Pharmaceutical Products. Methods in Pharmacology and Toxicology, 2016, , 133-158.	0.2	3
35	Powder Blending Equipment. , 2015, , 287-310.		1
36	TAHITI LIME POSTHARVEST AND NON-DESTRUCTIVE ASSESSMENT OF ESSENTIAL OILS BY NIR SPECTROSCOPY. Acta Horticulturae, 2015, , 1463-1469.	0.2	0

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37	Equipment Qualification, Process and Cleaning Validation. , 2015, , 369-399.		0
38	Real time monitoring of powder blend bulk density for coupled feed-forward/feed-back control of a continuous direct compaction tablet manufacturing process. International Journal of Pharmaceutics, 2015, 495, 612-625.	5.2	64
39	Near Infrared Method Development for a Continuous Manufacturing Blending Process. Journal of Pharmaceutical Innovation, 2014, 9, 291-301.	2.4	41
40	Pharmaceutical Application of Fast Raman Hyperspectral Imaging with Compressive Detection Strategy. Journal of Pharmaceutical Innovation, 2014, 9, 1-4.	2.4	15
41	Analysis of powder phenomena inside a Fette 3090 feed frame using in-line NIR spectroscopy. Journal of Pharmaceutical and Biomedical Analysis, 2014, 100, 40-49.	2.8	66
42	Raman spectroscopy for in-line and off-line quantification of poorly soluble drugs in strip films. International Journal of Pharmaceutics, 2014, 475, 428-437.	5.2	28
43	Multivariate Image Analysis and near Infrared Chemical Imaging for Characterisation of Micro-Mixing in Polymeric Thin Films. NIR News, 2014, 25, 4-7.	0.3	1
44	Effects of stabilizers on particle redispersion and dissolution from polymer strip films containing liquid antisolvent precipitated griseofulvin particles. Powder Technology, 2013, 236, 37-51.	4.2	45
45	Fast drying of biocompatible polymer films loaded with poorly water-soluble drug nano-particles via low temperature forced convection. International Journal of Pharmaceutics, 2013, 455, 93-103.	5.2	46
46	Collagen abundance in mechanically stimulated osteoblast cultures using near infrared microscopy. Journal of Biomechanics, 2013, 46, 2442-2450.	2.1	8
47	When â€œhomogeneityâ€•is expectedâ€”Theory of Sampling in pharmaceutical manufacturing. TOS Forum, 2013, 2013, 67.	0.1	5
48	Estimating total sampling error for near infrared spectroscopic analysis of pharmaceutical blendsâ€”theory of sampling to the rescue. TOS Forum, 2013, 2013, 71.	0.1	4
49	Proper sampling, total measurement uncertainty, variographic analysis & fit-for-purpose acceptance levels for pharmaceutical mixing monitoring. TOS Forum, 2013, 2013, 25.	0.1	5
50	In-Line Near-Infrared (NIR) and Raman Spectroscopy Coupled with Principal Component Analysis (PCA) for in Situ Evaluation of the Transesterification Reaction. Applied Spectroscopy, 2013, 67, 1142-1149.	2.2	17
51	Sampling in pharmaceutical manufacturingâ€”Many opportunities to improve todayâ€™s practice through the Theory of Sampling (TOS). TOS Forum, 2013, 2013, 5.	0.1	8
52	Evaluation of Three Approaches for Real-Time Monitoring of Roller Compaction with Near-Infrared Spectroscopy. AAPS PharmSciTech, 2012, 13, 1005-1012.	3.3	40
53	MIA and NIR Chemical Imaging for pharmaceutical product characterization. Chemometrics and Intelligent Laboratory Systems, 2012, 117, 240-249.	3.5	23
54	Preparation and characterization of hydroxypropyl methyl cellulose films containing stable BCS Class II drug nanoparticles for pharmaceutical applications. International Journal of Pharmaceutics, 2012, 423, 496-508.	5.2	138

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55	Near-Infrared Chemical Imaging Slope as a New Method to Study Tablet Compaction and Tablet Relaxation. Applied Spectroscopy, 2011, 65, 459-465.	2.2	15
56	Complementary Nearâ€Infrared and Raman Chemical Imaging of Pharmaceutical Thin Films. Journal of Pharmaceutical Sciences, 2011, 100, 4888-4895.	3.3	30
57	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
58	Real-time monitoring of drug concentration in a continuous powder mixing process using NIR spectroscopy. Chemical Engineering Science, 2010, 65, 5728-5733.	3.8	182
59	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
60	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
61	Design and In-line Raman Spectroscopic Monitoring of a Protein Batch Crystallization Process. Journal of Pharmaceutical Innovation, 2008, 3, 271-279.	2.4	8
62	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. Journal of Pharmaceutical Sciences, 2008, 97, 5318-5327.	3.3	49
63	Near-Infrared Spectroscopic Method for Real-Time Monitoring of Pharmaceutical Powders during Voiding. Applied Spectroscopy, 2007, 61, 490-496.	2.2	38
64	Determination of aqueous solubility by heating and equilibration: A technical note. AAPS PharmSciTech, 2006, 7, E29-E32.	3.3	85
65	Quantitation of drug content in a low dosage formulation by transmission near infrared spectroscopy. AAPS PharmSciTech, 2006, 7, E206-E214.	3.3	41
66	Atomic force measurements of 16-mercaptohexadecanoic acid and its salt with CH3, OH, and CONHCH3 functionalized self-assembled monolayers. Applied Surface Science, 2005, 241, 371-383.	6.1	28
67	Blend uniformity analysis using stream sampling and near infrared spectroscopy. AAPS PharmSciTech, 2002, 3, 61-71.	3.3	29
68	Blend uniformity analysis using stream sampling and near infrared spectroscopy. AAPS PharmSciTech, 2002, 3, 61-71.	3.3	20
69	A novel method for analyzing thick tablets by near infrared spectroscopy. AAPS PharmSciTech, 2001, 2, 15-24.	3.3	17
70	Flow Cell CCC/FT-IR Spectrometry. Journal of Liquid Chromatography and Related Technologies, 1988, 11, 133-152.	1.0	7
71	Comparison of Columns for the Analytical High Speed Countercurrent Chromatograph. Journal of Liquid Chromatography and Related Technologies, 1988, 11, 91-105.	1.0	4
72	High Speed Countercurrent Chromatography/Fourier Transform Infrared (HSCCC/FT-IR) Spectrometry. , 1985, 0553, 349.		0

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73	Preliminary Studies for Interfacing Countercurrent Chromatography (CCC) with Fourier Transform Infrared (FT-IR) Spectrometry. Journal of Liquid Chromatography and Related Technologies, 1985, 8, 2209-2219.	1.0	7
74	WHAT are sampling errorsâ€"and WHAT can we do about them? Part 1. Spectroscopy Europe, 0, , 36.	0.0	0
75	Sampling in pharmaceutical manufacturing: a critical business case element. Spectroscopy Europe, 0, , 67.	0.0	0
76	Development and Application of a Business Case Model for a Stream Sampler in the Pharmaceutical Industry. Journal of Pharmaceutical Innovation, 0, , 1.	2.4	0