

Rodolfo J Romanach

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91
papers

1,513
citations

22
h-index

37
g-index

98
ext. papers

1,649
ext. citations

3.6
avg, IF

4.63
L-index

#	Paper	IF	Citations
91	Real-time monitoring of drug concentration in a continuous powder mixing process using NIR spectroscopy. <i>Chemical Engineering Science</i> , 2010 , 65, 5728-5733	4.4	163
90	Preparation and characterization of hydroxypropyl methyl cellulose films containing stable BCS Class II drug nanoparticles for pharmaceutical applications. <i>International Journal of Pharmaceutics</i> , 2012 , 423, 496-508	6.5	125
89	Quantitation of drug content in a low dosage formulation by transmission near infrared spectroscopy. <i>AAPS PharmSciTech</i> , 2006 , 7, E29	3.9	77
88	Process analytical technology in continuous manufacturing of a commercial pharmaceutical product. <i>International Journal of Pharmaceutics</i> , 2018 , 538, 167-178	6.5	66
87	Real time monitoring of powder blend bulk density for coupled feed-forward/feed-back control of a continuous direct compaction tablet manufacturing process. <i>International Journal of Pharmaceutics</i> , 2015 , 495, 612-625	6.5	58
86	Analysis of powder phenomena inside a Fette 3090 feed frame using in-line NIR spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 100, 40-49	3.5	58
85	Prediction of dissolution profiles by non-destructive near infrared spectroscopy in tablets subjected to different levels of strain. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 117, 568-578	3.5	44
84	Fast drying of biocompatible polymer films loaded with poorly water-soluble drug nano-particles via low temperature forced convection. <i>International Journal of Pharmaceutics</i> , 2013 , 455, 93-103	6.5	43
83	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, 5318-27	3.9	43
82	Near infrared spectroscopic calibration models for real time monitoring of powder density. <i>International Journal of Pharmaceutics</i> , 2016 , 512, 61-74	6.5	42
81	Effects of stabilizers on particle redispersion and dissolution from polymer strip films containing liquid antisolvent precipitated griseofulvin particles. <i>Powder Technology</i> , 2013 , 236, 37-51	5.2	42
80	Adequacy and verifiability of pharmaceutical mixtures and dose units by variographic analysis (Theory of Sampling) - A call for a regulatory paradigm shift. <i>International Journal of Pharmaceutics</i> , 2016 , 499, 156-174	6.5	40
79	Near Infrared Method Development for a Continuous Manufacturing Blending Process. <i>Journal of Pharmaceutical Innovation</i> , 2014 , 9, 291-301	1.8	39
78	Evaluation of three approaches for real-time monitoring of roller compaction with near-infrared spectroscopy. <i>AAPS PharmSciTech</i> , 2012 , 13, 1005-12	3.9	37
77	Assessment of blend uniformity in a continuous tablet manufacturing process. <i>International Journal of Pharmaceutics</i> , 2019 , 560, 322-333	6.5	36
76	Near-infrared spectroscopic method for real-time monitoring of pharmaceutical powders during voiding. <i>Applied Spectroscopy</i> , 2007 , 61, 490-6	3.1	35
75	Quantitation of drug content in a low dosage formulation by transmission near infrared spectroscopy. <i>AAPS PharmSciTech</i> , 2006 , 7, E206-E214	3.9	29

74	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. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 154, 384-396	3.5	28
73	Blend uniformity analysis using stream sampling and near infrared spectroscopy. <i>AAPS PharmSciTech</i> , 2002 , 3, E24	3.9	28
72	Complementary near-infrared and Raman chemical imaging of pharmaceutical thin films. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 4888-95	3.9	25
71	Atomic force measurements of 16-mercaptohexadecanoic acid and its salt with CH ₃ , OH, and CONHCH ₃ functionalized self-assembled monolayers. <i>Applied Surface Science</i> , 2005 , 241, 371-383	6.7	24
70	Raman spectroscopy for in-line and off-line quantification of poorly soluble drugs in strip films. <i>International Journal of Pharmaceutics</i> , 2014 , 475, 428-37	6.5	23
69	MIA and NIR Chemical Imaging for pharmaceutical product characterization. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2012 , 117, 240-249	3.8	22
68	Evaluation of Analytical and Sampling Errors in the Prediction of the Active Pharmaceutical Ingredient Concentration in Blends From a Continuous Manufacturing Process. <i>Journal of Pharmaceutical Innovation</i> , 2017 , 12, 155-167	1.8	21
67	Near-infrared Spectroscopy for the In-line Characterization of Powder Voiding Part I: Development of the Methodology. <i>Journal of Pharmaceutical Innovation</i> , 2009 , 4, 187-197	1.8	21
66	Near-Infrared Spectroscopy for the In-Line Characterization of Powder Voiding Part II: Quantification of Enhanced Flow Properties of Surface Modified Active Pharmaceutical Ingredients. <i>Journal of Pharmaceutical Innovation</i> , 2010 , 5, 1-13	1.8	21
65	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. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 164, 211-222	3.5	21
64	Blend uniformity analysis using stream sampling and near infrared spectroscopy 2002 , 3, E24		18
63	Characterization of resonant acoustic mixing using near-infrared chemical imaging. <i>Powder Technology</i> , 2016 , 297, 349-356	5.2	18
62	A novel method for analyzing thick tablets by near infrared spectroscopy. <i>AAPS PharmSciTech</i> , 2001 , 2, E11	3.9	16
61	Near infrared spectroscopic transmittance measurements for pharmaceutical powder mixtures. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 123, 120-7	3.5	15
60	Near-infrared spectroscopic applications in pharmaceutical particle technology. <i>Drug Development and Industrial Pharmacy</i> , 2019 , 45, 1565-1589	3.6	15
59	Continuous Powder Mixing 2015 , 101-127		14
58	Near-infrared chemical imaging slope as a new method to study tablet compaction and tablet relaxation. <i>Applied Spectroscopy</i> , 2011 , 65, 459-65	3.1	14
57	Feed frame: The last processing step before the tablet compaction in pharmaceutical manufacturing. <i>International Journal of Pharmaceutics</i> , 2019 , 572, 118728	6.5	13

56	In-line near-infrared (NIR) and Raman spectroscopy coupled with principal component analysis (PCA) for in situ evaluation of the transesterification reaction. <i>Applied Spectroscopy</i> , 2013 , 67, 1142-9	3.1	13
55	Deconvolution of chemical and physical information from intact tablets NIR spectra: two- and three-way multivariate calibration strategies for drug quantitation. <i>Journal of Pharmaceutical Sciences</i> , 2009 , 98, 2747-58	3.9	13
54	Variographic analysis: A new methodology for quality assurance of pharmaceutical blending processes. <i>Computers and Chemical Engineering</i> , 2019 , 124, 109-123	4	13
53	Near-infrared chemical imaging and its correlation with the mechanical properties of chitosan-gelatin edible films. <i>Carbohydrate Polymers</i> , 2016 , 136, 409-17	10.3	12
52	Pharmaceutical Application of Fast Raman Hyperspectral Imaging with Compressive Detection Strategy. <i>Journal of Pharmaceutical Innovation</i> , 2014 , 9, 1-4	1.8	12
51	Assessment of Robustness for a Near-Infrared Concentration Model for Real-Time Release Testing in a Continuous Manufacturing Process. <i>Journal of Pharmaceutical Innovation</i> , 2017 , 12, 14-25	1.8	8
50	Study of near infrared chemometric models with low heterogeneity films: The role of optical sampling and spectral preprocessing on partial least squares errors. <i>Journal of Near Infrared Spectroscopy</i> , 2017 , 25, 103-115	1.5	7
49	Flow Cell CCC/FT-IR Spectrometry. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1988 , 11, 133-152		7
48	Preliminary Studies for Interfacing Countercurrent Chromatography (CCC) with Fourier Transform Infrared (FT-IR) Spectrometry. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1985 , 8, 2209-2219		7
47	Sampling in pharmaceutical manufacturing—Many opportunities to improve today’s practice through the Theory of Sampling (TOS). <i>TOS Forum</i> , 2013 , 2013, 5	0.1	7
46	Effect of Shear Applied During a Pharmaceutical Process on Near Infrared Spectra. <i>Applied Spectroscopy</i> , 2016 , 70, 455-66	3.1	6
45	Design and In-line Raman Spectroscopic Monitoring of a Protein Batch Crystallization Process. <i>Journal of Pharmaceutical Innovation</i> , 2008 , 3, 271-279	1.8	6
44	Collagen abundance in mechanically stimulated osteoblast cultures using near infrared microscopy. <i>Journal of Biomechanics</i> , 2013 , 46, 2442-50	2.9	5
43	Near-Infrared Spectroscopy in Laboratory and Process Analysis 2012 ,		5
42	When Homogeneity is expected—theory of Sampling in pharmaceutical manufacturing. <i>TOS Forum</i> , 2013 , 2013, 67	0.1	5
41	A sampling system for flowing powders based on the theory of sampling. <i>International Journal of Pharmaceutics</i> , 2020 , 574, 118874	6.5	5
40	Sampling and Determination of Adequacy of Mixing 2015 , 57-78		4
39	Proper sampling, total measurement uncertainty, variographic analysis & fit-for-purpose acceptance levels for pharmaceutical mixing monitoring. <i>TOS Forum</i> , 2013 , 2013, 25	0.1	4

38	Comparison of Columns for the Analytical High Speed Countercurrent Chromatograph. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1988 , 11, 91-105		4
37	Real-time quantification of low-dose cohesive formulations within a sampling interface for flowing powders. <i>International Journal of Pharmaceutics</i> , 2020 , 588, 119726	6.5	4
36	A Procedure for Developing Quantitative Near Infrared (NIR) Methods for Pharmaceutical Products. <i>Methods in Pharmacology and Toxicology</i> , 2016 , 133-158	1.1	3
35	In-line monitoring of low drug concentration of flowing powders in a new sampler device. <i>International Journal of Pharmaceutics</i> , 2020 , 583, 119358	6.5	3
34	Fluid Mixing Equipment Design 2015 , 311-344		3
33	Estimating total sampling error for near infrared spectroscopic analysis of pharmaceutical blends Theory of sampling to the rescue. <i>TOS Forum</i> , 2013 , 2013, 71	0.1	3
32	Method transfer of a near-infrared spectroscopic method for blend uniformity in a poorly flowing and hygroscopic blend. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 180, 113054	3.5	3
31	Theory of Sampling (TOS) 2018 , 53-91		3
30	Determining the number of significant figures for reporting NIR results. <i>NIR News</i> , 2018 , 29, 15-17	0.8	2
29	Linear and Nonlinear Calibration Methods for Predicting Mechanical Properties of Polypropylene Pellets Using Raman Spectroscopy. <i>Applied Spectroscopy</i> , 2016 , 70, 1118-27	3.1	2
28	Turbulent Mixing Fundamentals 2015 , 27-41		2
27	Process Analytical Chemistry and Nondestructive Analytical Methods: The Green Chemistry Approach for Reaction Monitoring, Control, and Analysis 2019 , 257-288		1
26	Multivariate Image Analysis and near Infrared Chemical Imaging for Characterisation of Micro-Mixing in Polymeric Thin Films. <i>NIR News</i> , 2014 , 25, 4-7	0.8	1
25	Mixing Theory 2015 , 1-25		1
24	Particles and Blending 2015 , 79-100		1
23	Laminar Mixing Fundamentals 2015 , 43-56		1
22	Near Infrared Spectroscopy: From Feasibility to Implementation in the Pharmaceutical Industry. <i>NIR News</i> , 2016 , 27, 33-38	0.8	1
21	Monitoring of high-load dose formulations based on co-processed and non co-processed excipients. <i>International Journal of Pharmaceutics</i> , 2021 , 606, 120910	6.5	1

- 20 Scale-Up **2015**, 345-368 ○
- 19 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 6.5 ○
- 18 An innovative sampling interface for monitoring flowing pharmaceutical powder mixtures. *Journal of Pharmaceutical and Biomedical Analysis*, **2021**, 194, 113785 3.5 ○
- 17 Powder Blending Equipment **2015**, 287-310
- 16 Mixing of Pharmaceutical Solid-Liquid Suspensions **2015**, 233-285
- 15 Dispersion of Fine Powders in Liquids **2015**, 129-151
- 14 Wet Granulation and Mixing **2015**, 153-182
- 13 Emulsions **2015**, 183-232
- 12 Discrete Element Method (DEM) Simulation of Powder Mixing Process **2015**, 459-477
- 11 Process Analytical Technology for Blending **2015**, 401-430
- 10 Equipment Qualification, Process and Cleaning Validation **2015**, 369-399
- 9 Imaging Fluid Mixing **2015**, 431-457
- 8 Residence Time Distribution as a Traceability Method for Lot Changes in A Pharmaceutical Continuous Manufacturing System. *International Journal of Pharmaceutics*, **2021**, 121313 6.5
- 7 Quantitative Analysis of Blend Uniformity within a Three-Chamber Feed Frame using Simultaneously Raman and Near-Infrared Spectroscopy.. *International Journal of Pharmaceutics*, **2021**, 613, 121417 6.5
- 6 Sampling in pharmaceutical manufacturing: a critical business case element. *Spectroscopy Europe*, 67
- 5 WHAT are sampling errors and WHAT can we do about them? Part 1. *Spectroscopy Europe*, 36
- 4 Fractal and Polarization Properties of Light Scattering Using Microcrystalline Pharmaceutical Aggregates. *Applied Spectroscopy*, **2021**, 75, 94-106 3.1
- 3 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 3.5

2 Continuous dry granulation **2022**, 93-118

1 Development and Application of a Business Case Model for a Stream Sampler in the Pharmaceutical Industry. *Journal of Pharmaceutical Innovation*,1

1.8