

# Eric M Zimons

## List of Publications by Citations

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99  
papers

2,222  
citations

27  
h-index

43  
g-index

104  
ext. papers

2,548  
ext. citations

5.1  
avg, IF

4.74  
L-index

#	Paper	IF	Citations
99	Analysis of recent pharmaceutical regulatory documents on analytical method validation. <i>Journal of Chromatography A</i> , <b>2007</b> , 1158, 111-25	4.5	201
98	Advances in validation, risk and uncertainty assessment of bioanalytical methods. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2011</b> , 55, 848-58	3.5	103
97	Critical review of near-infrared spectroscopic methods validations in pharmaceutical applications. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2012</b> , 69, 125-32	3.5	83
96	Vibrational spectroscopy in analysis of pharmaceuticals: Critical review of innovative portable and handheld NIR and Raman spectrophotometers. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2019</b> , 114, 251-259	14.6	80
95	In vitro antiplasmodial activity of <i>Tithonia diversifolia</i> and identification of its main active constituent: tagitinin C. <i>Planta Medica</i> , <b>2002</b> , 68, 543-5	3.1	78
94	Data processing of vibrational chemical imaging for pharmaceutical applications. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2014</b> , 101, 123-40	3.5	76
93	Moisture content determination of pharmaceutical pellets by near infrared spectroscopy: method development and validation. <i>Analytica Chimica Acta</i> , <b>2009</b> , 642, 186-92	6.6	71
92	Using tolerance intervals in pre-study validation of analytical methods to predict in-study results. The fit-for-future-purpose concept. <i>Journal of Chromatography A</i> , <b>2007</b> , 1158, 126-37	4.5	59
91	Acetaminophen determination in low-dose pharmaceutical syrup by NIR spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2010</b> , 53, 510-6	3.5	58
90	Development and validation of an in-line NIR spectroscopic method for continuous blend potency determination in the feed frame of a tablet press. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2018</b> , 151, 274-283	3.5	55
89	Critical analysis of several analytical method validation strategies in the framework of the fit for purpose concept. <i>Journal of Chromatography A</i> , <b>2010</b> , 1217, 3180-92	4.5	55
88	Active content determination of non-coated pharmaceutical pellets by near infrared spectroscopy: method development, validation and reliability evaluation. <i>Talanta</i> , <b>2010</b> , 80, 1750-7	6.2	50
87	Critical review of surface-enhanced Raman spectroscopy applications in the pharmaceutical field. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2018</b> , 147, 458-472	3.5	47
86	Improvement of a stability-indicating method by Quality-by-Design versus Quality-by-Testing: a case of a learning process. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2014</b> , 88, 401-9	3.5	47
85	Quality by design compliant analytical method validation. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 106-12	7.8	42
84	Continuous production of itraconazole-based solid dispersions by hot melt extrusion: Preformulation, optimization and design space determination. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 515, 114-124	6.5	41
83	Evaluation of the quantitative performances of supercritical fluid chromatography: from method development to validation. <i>Journal of Chromatography A</i> , <b>2014</b> , 1353, 78-88	4.5	37

82	Determination of 4-aminophenol in a pharmaceutical formulation using surface enhanced Raman scattering: from development to method validation. <i>Talanta</i> , <b>2013</b> , 116, 899-905	6.2	36
81	Validation of manufacturing process of Diltiazem HCl tablets by NIR spectrophotometry (NIRS). <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2007</b> , 45, 356-61	3.5	34
80	Breakage and drying behaviour of granules in a continuous fluid bed dryer: Influence of process parameters and wet granule transfer. <i>European Journal of Pharmaceutical Sciences</i> , <b>2018</b> , 115, 223-232	5.1	33
79	A new criterion to assess distributional homogeneity in hyperspectral images of solid pharmaceutical dosage forms. <i>Analytica Chimica Acta</i> , <b>2014</b> , 818, 7-14	6.6	33
78	PAT tools for the control of co-extrusion implants manufacturing process. <i>International Journal of Pharmaceutics</i> , <b>2013</b> , 458, 15-24	6.5	33
77	Optimization and validation of a fast supercritical fluid chromatography method for the quantitative determination of vitamin D3 and its related impurities. <i>Journal of Chromatography A</i> , <b>2017</b> , 1491, 171-181	4.5	31
76	Building the quality into pellet manufacturing environment--feasibility study and validation of an in-line quantitative near infrared (NIR) method. <i>Talanta</i> , <b>2010</b> , 83, 305-11	6.2	31
75	Innovative green supercritical fluid chromatography development for the determination of polar compounds. <i>Journal of Chromatography A</i> , <b>2012</b> , 1256, 253-60	4.5	30
74	Methodologies for the transfer of analytical methods: a review. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2009</b> , 877, 2214-23	3.2	30
73	Comparing the qualitative performances of handheld NIR and Raman spectrophotometers for the detection of falsified pharmaceutical products. <i>Talanta</i> , <b>2019</b> , 202, 469-478	6.2	29
72	Near infrared and Raman spectroscopy as Process Analytical Technology tools for the manufacturing of silicone-based drug reservoirs. <i>Analytica Chimica Acta</i> , <b>2011</b> , 699, 96-106	6.6	27
71	Towards a real time release approach for manufacturing tablets using NIR spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2014</b> , 98, 60-7	3.5	26
70	Total error and uncertainty: Friends or foes?. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2011</b> , 30, 797-806	14.6	26
69	Optimization of a pharmaceutical tablet formulation based on a design space approach and using vibrational spectroscopy as PAT tool. <i>International Journal of Pharmaceutics</i> , <b>2015</b> , 486, 13-20	6.5	23
68	Determination of Arsenic(III) at a Nanogold Modified Solid Carbon Paste Electrode. <i>Electroanalysis</i> , <b>2015</b> , 27, 309-316	3	22
67	Global regression model for moisture content determination using near-infrared spectroscopy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2017</b> , 119, 343-352	5.7	22
66	Models to estimate overall analytical measurements uncertainty: assumptions, comparisons and applications. <i>Analytica Chimica Acta</i> , <b>2011</b> , 702, 160-71	6.6	22
65	Optimisation and validation of a fast HPLC method for the quantification of sulindac and its related impurities. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2011</b> , 54, 694-700	3.5	22

64	Robustness testing of a chiral NACE method for R-timolol determination in S-timolol maleate and uncertainty assessment from quantitative data. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2007</b> , 44, 640-51	3.5	22
63	Development, validation and comparison of NIR and Raman methods for the identification and assay of poor-quality oral quinine drops. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2015</b> , 111, 21-7	3.5	21
62	Development of an analytical method for crystalline content determination in amorphous solid dispersions produced by hot-melt extrusion using transmission Raman spectroscopy: A feasibility study. <i>International Journal of Pharmaceutics</i> , <b>2017</b> , 530, 249-255	6.5	21
61	Active content determination of pharmaceutical tablets using near infrared spectroscopy as Process Analytical Technology tool. <i>Talanta</i> , <b>2015</b> , 144, 1352-9	6.2	19
60	Development of a quantitative approach using surface-enhanced Raman chemical imaging: first step for the determination of an impurity in a pharmaceutical model. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2014</b> , 90, 111-8	3.5	19
59	Theoretical and experimental investigations of organic acids/cyclodextrin complexes and their consequences upon the formation of miconazole/cyclodextrin/acid ternary inclusion complexes. <i>International Journal of Pharmaceutics</i> , <b>2008</b> , 347, 62-70	6.5	17
58	From near-infrared and Raman to surface-enhanced Raman spectroscopy: progress, limitations and perspectives in bioanalysis. <i>Bioanalysis</i> , <b>2016</b> , 8, 1077-103	2.1	16
57	Determination of binary polymorphic mixtures of fluconazole using near infrared spectroscopy and X-ray powder diffraction: a comparative study based on the pre-validation stage results. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2011</b> , 55, 1208-12	3.5	16
56	Providing illicit drugs results in five seconds using ultra-portable NIR technology: An opportunity for forensic laboratories to cope with the trend toward the decentralization of forensic capabilities. <i>Forensic Science International</i> , <b>2020</b> , 317, 110498	2.6	16
55	Quantitation of active pharmaceutical ingredient through the packaging using Raman handheld spectrophotometers: A comparison study. <i>Talanta</i> , <b>2020</b> , 207, 120306	6.2	16
54	Vibrational spectroscopy and microspectroscopy analyzing qualitatively and quantitatively pharmaceutical hot melt extrudates. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2015</b> , 113, 21-33 <sup>3.5</sup>	3.5	14
53	Raman chemical imaging, a new tool in kidney stone structure analysis: Case-study and comparison to Fourier Transform Infrared spectroscopy. <i>PLoS ONE</i> , <b>2018</b> , 13, e0201460	3.7	14
52	Study of the physicochemical properties in aqueous medium and molecular modeling of tagitinin C/cyclodextrin complexes. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2007</b> , 43, 910-9	3.5	14
51	Risk-based approach for the transfer of quantitative methods: bioanalytical applications. <i>Journal of Chromatography A</i> , <b>2008</b> , 1189, 32-41	4.5	14
50	Comparison of hyperspectral imaging techniques for the elucidation of falsified medicines composition. <i>Talanta</i> , <b>2019</b> , 198, 457-463	6.2	14
49	A simple approach for ultrasensitive detection of bisphenols by multiplexed surface-enhanced Raman scattering. <i>Analytica Chimica Acta</i> , <b>2015</b> , 888, 118-25	6.6	13
48	Implementation of a generic SFC-MS method for the quality control of potentially counterfeited medicinal cannabis with synthetic cannabinoids. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2018</b> , 1092, 332-342	3.2	13
47	Quantification of tagitinin C in <i>Tithonia diversifolia</i> by reversed-phase high-performance liquid chromatography. <i>Phytochemical Analysis</i> , <b>2003</b> , 14, 378-80	3.4	13

46	Evaluation of the analytical performances of two Raman handheld spectrophotometers for pharmaceutical solid dosage form quantitation. <i>Talanta</i> , <b>2020</b> , 214, 120888	6.2	12
45	Is supercritical fluid chromatography hyphenated to mass spectrometry suitable for the quality control of vitamin D3 oily formulations?. <i>Journal of Chromatography A</i> , <b>2017</b> , 1515, 209-217	4.5	12
44	Development of a SERS strategy to overcome the nanoparticle stabilisation effect in serum-containing samples: Application to the quantification of dopamine in the culture medium of PC-12 cells. <i>Talanta</i> , <b>2018</b> , 186, 8-16	6.2	11
43	Evaluating the reliability of analytical results using a probability criterion: a Bayesian perspective. <i>Analytica Chimica Acta</i> , <b>2011</b> , 705, 193-206	6.6	11
42	Theoretical and experimental vibrational study of miconazole and its dimers with organic acids: application to the IR characterization of its inclusion complexes with cyclodextrins. <i>International Journal of Pharmaceutics</i> , <b>2008</b> , 350, 155-65	6.5	11
41	Global approach for the validation of an in-line Raman spectroscopic method to determine the API content in real-time during a hot-melt extrusion process. <i>Talanta</i> , <b>2017</b> , 171, 45-52	6.2	10
40	Towards a spray-coating method for the detection of low-dose compounds in pharmaceutical tablets using surface-enhanced Raman chemical imaging (SER-CI). <i>Talanta</i> , <b>2018</b> , 188, 584-592	6.2	10
39	Usefulness of capability indices in the framework of analytical methods validation. <i>Analytica Chimica Acta</i> , <b>2012</b> , 714, 47-56	6.6	10
38	Usefulness of information criteria for the selection of calibration curves. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 6327-35	7.8	10
37	Moisture content determination in an antibody-drug conjugate freeze-dried medicine by near-infrared spectroscopy: A case study for release testing. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2016</b> , 131, 380-390	3.5	9
36	Direct determination of tagitinin C in <i>Tithonia diversifolia</i> leaves by on-line coupling of supercritical carbon dioxide extraction to FT-IR spectroscopy by means of optical fibres. <i>Talanta</i> , <b>2007</b> , 71, 911-7	6.2	9
35	FT-IR measurement of tagitinin C after solvent extraction from <i>Tithonia diversifolia</i> . <i>Talanta</i> , <b>2004</b> , 62, 383-7	6.2	8
34	New perspective for the in-field analysis of cannabis samples using handheld near-infrared spectroscopy: A case study focusing on the determination of Tetrahydrocannabinol. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2021</b> , 202, 114150	3.5	8
33	Methodology for the validation of analytical methods involved in uniformity of dosage units tests. <i>Analytica Chimica Acta</i> , <b>2013</b> , 760, 46-52	6.6	7
32	Validation of analytical methods involved in dissolution assays: acceptance limits and decision methodologies. <i>Analytica Chimica Acta</i> , <b>2012</b> , 751, 44-51	6.6	7
31	Comments on "uncertainty profiles for the validation of analytical methods" by Saffaj and Ihssane. <i>Talanta</i> , <b>2012</b> , 88, 769-71	6.2	7
30	Near-Infrared Spectroscopy to Determine Residual Moisture in Freeze-Dried Products: Model Generation by Statistical Design of Experiments. <i>Journal of Pharmaceutical Sciences</i> , <b>2020</b> , 109, 719-729	3.9	7
29	Poplar-Root Knot Nematode Interaction: A Model for Perennial Woody Species. <i>Molecular Plant-Microbe Interactions</i> , <b>2016</b> , 29, 560-72	3.6	6

28	Development and validation of a quantitative method for the selective determination of tin species in tin octoate by differential pulse polarography. <i>Talanta</i> , <b>2010</b> , 80, 1413-20	6.2	6
27	Pixel-based Raman hyperspectral identification of complex pharmaceutical formulations. <i>Analytica Chimica Acta</i> , <b>2021</b> , 1155, 338361	6.6	6
26	The analysis of cannabinoids in cannabis samples by supercritical fluid chromatography and ultra-high-performance liquid chromatography: A comparison study. <i>Analytical Science Advances</i> , <b>2021</b> , 2, 2-14	1.1	5
25	Composition analysis of falsified chloroquine phosphate samples seized during the COVID-19 pandemic. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2021</b> , 194, 113761	3.5	5
24	Application of NIR handheld transmission spectroscopy and chemometrics to assess the quality of locally produced antimalarial medicines in the Democratic Republic of Congo. <i>Talanta Open</i> , <b>2021</b> , 3, 100025	5.6	5
23	Thorough characterization of a Self-Emulsifying Drug Delivery System with Raman hyperspectral imaging: a case study. <i>International Journal of Pharmaceutics</i> , <b>2015</b> , 484, 85-94	6.5	4
22	Effect of the functionalisation agent on the surface-enhanced Raman scattering (SERS) spectrum: Case study of pyridine derivatives. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2020</b> , 233, 118180	4.4	4
21	Do placebo based validation standards mimic real batch products behaviour? Case studies. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2011</b> , 55, 583-90	3.5	4
20	Detection of low dose of piroxicam polymorph in pharmaceutical tablets by surface-enhanced Raman chemical imaging (SER-CI) and multivariate analysis. <i>International Journal of Pharmaceutics</i> , <b>2020</b> , 574, 118913	6.5	4
19	Design of experiments and design space approaches in the pharmaceutical bioprocess optimization. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2021</b> , 166, 144-154	5.7	4
18	A simple calibration approach based on film-casting for confocal Raman microscopy to support the development of a hot-melt extrusion process. <i>Talanta</i> , <b>2016</b> , 154, 392-9	6.2	4
17	Reply to the responses on the comments on "Uncertainty profiles for the validation of analytical methods" by Saffaj and Ihssane. <i>Talanta</i> , <b>2012</b> , 100, 290-2	6.2	3
16	Critical review on recent trends in cannabinoid determination on cannabis herbal samples: From chromatographic to vibrational spectroscopic techniques.. <i>Analytica Chimica Acta</i> , <b>2022</b> , 1209, 339184	6.6	3
15	Raman imaging as a new analytical tool for the quality control of the monitoring of osteogenic differentiation in forming 3D bone tissue. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2020</b> , 186, 113319	3.5	3
14	A probabilistic class-modelling method based on prediction bands for functional spectral data: Methodological approach and application to near-infrared spectroscopy. <i>Analytica Chimica Acta</i> , <b>2021</b> , 1144, 130-149	6.6	3
13	Development of a prototype device for near real-time surface-enhanced Raman scattering monitoring of biological samples. <i>Talanta</i> , <b>2021</b> , 224, 121866	6.2	3
12	Generic SFC-MS methodology for the quality control of vitamin D oily formulations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2021</b> , 209, 114492	3.5	2
11	Evaluation of distributional homogeneity of pharmaceutical formulation using laser direct infrared imaging.. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 612, 121373	6.5	1

10	Monitoring of anatabine release by methyl jasmonate elicited BY-2 cells using surface-enhanced Raman scattering. <i>Talanta</i> , <b>2016</b> , 160, 754-760	6.2	1
9	Classification of polymorphic forms of fluconazole in pharmaceuticals by FT-IR and FT-NIR spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2021</b> , 196, 113922	3.5	1
8	Optimization of a robust and reliable FITC labeling process for CE-LIF analysis of pharmaceutical compounds using design of experiments strategy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2021</b> , 205, 114304	3.5	1
7	Selection of essential spectra to improve the multivariate curve resolution of minor compounds in complex pharmaceutical formulations.. <i>Analytica Chimica Acta</i> , <b>2022</b> , 1198, 339532	6.6	0
6	Influence of API physico-chemical properties on amorphization capacity of several mesoporous silica loading methods.. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 613, 121372	6.5	0
5	Development of a highly persistent silicone-based sprayable emulsion containing essential oils for treatment of skin infections. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 596, 120214	6.5	0
4	PAT Applications of NIR Spectroscopy in the Pharmaceutical Industry <b>2021</b> , 67-88		0
3	Development of a sensitive MEKC-LIF method for synthetic cathinones analysis. <i>Electrophoresis</i> , <b>2021</b> , 42, 1127-1134	3.6	0
2	Comparison of several strategies for the deployment of a multivariate regression model on several handheld NIR instruments. Application to the quality control of medicines.. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2022</b> , 215, 114755	3.5	0
1	Process Analysis Overview <b>2018</b> , 396-396		