

Pierre-Yves Sacr

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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.

58 papers	1,142 citations	21 h-index	32 g-index
63 ext. papers	1,357 ext. citations	5 avg, IF	4.37 L-index

#	Paper	IF	Citations
58	Comparison and combination of spectroscopic techniques for the detection of counterfeit medicines. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010 , 53, 445-53	3.5	98
57	Vibrational spectroscopy in analysis of pharmaceuticals: Critical review of innovative portable and handheld NIR and Raman spectrophotometers. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 114, 251-259	14.6	80
56	Data processing of vibrational chemical imaging for pharmaceutical applications. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 101, 123-40	3.5	76
55	Detection of counterfeit Viagra [®] by Raman microspectroscopy imaging and multivariate analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011 , 56, 454-61	3.5	57
54	Chromatography in the detection and characterization of illegal pharmaceutical preparations. <i>Journal of Chromatographic Science</i> , 2013 , 51, 791-806	1.4	54
53	Critical review of surface-enhanced Raman spectroscopy applications in the pharmaceutical field. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 147, 458-472	3.5	47
52	Development and validation of a ultra-high-performance liquid chromatography-UV method for the detection and quantification of erectile dysfunction drugs and some of their analogues found in counterfeit medicines. <i>Journal of Chromatography A</i> , 2011 , 1218, 6439-47	4.5	43
51	Classification trees based on infrared spectroscopic data to discriminate between genuine and counterfeit medicines. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012 , 57, 68-75	3.5	39
50	Determination of 4-aminophenol in a pharmaceutical formulation using surface enhanced Raman scattering: from development to method validation. <i>Talanta</i> , 2013 , 116, 899-905	6.2	36
49	A validated GC-MS method for the determination and quantification of residual solvents in counterfeit tablets and capsules. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012 , 70, 64-70	3.5	34
48	A new criterion to assess distributional homogeneity in hyperspectral images of solid pharmaceutical dosage forms. <i>Analytica Chimica Acta</i> , 2014 , 818, 7-14	6.6	33
47	PAT tools for the control of co-extrusion implants manufacturing process. <i>International Journal of Pharmaceutics</i> , 2013 , 458, 15-24	6.5	33
46	Impurity fingerprints for the identification of counterfeit medicines--a feasibility study. <i>Analytica Chimica Acta</i> , 2011 , 701, 224-31	6.6	32
45	Comparing the qualitative performances of handheld NIR and Raman spectrophotometers for the detection of falsified pharmaceutical products. <i>Talanta</i> , 2019 , 202, 469-478	6.2	29
44	Chemometrics and chromatographic fingerprints to discriminate and classify counterfeit medicines containing PDE-5 inhibitors. <i>Talanta</i> , 2012 , 100, 123-33	6.2	29
43	Screening study of SFC critical method parameters for the determination of pharmaceutical compounds. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 125, 339-54	3.5	29
42	A fast ultra high pressure liquid chromatographic method for qualification and quantification of pharmaceutical combination preparations containing paracetamol, acetyl salicylic acid and/or antihistaminics. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011 , 56, 200-9	3.5	28

4 ¹	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> , 2015 , 486, 13-20	6.5	23
4 ⁰	Global regression model for moisture content determination using near-infrared spectroscopy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017 , 119, 343-352	5.7	22
39	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> , 2015 , 111, 21-7	3.5	21
38	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> , 2017 , 530, 249-255	6.5	21
37	Active content determination of pharmaceutical tablets using near infrared spectroscopy as Process Analytical Technology tool. <i>Talanta</i> , 2015 , 144, 1352-9	6.2	19
36	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> , 2014 , 90, 111-8	3.5	19
35	Evaluation of the residual solvent content of counterfeit tablets and capsules. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013 , 81-82, 80-8	3.5	18
34	From near-infrared and Raman to surface-enhanced Raman spectroscopy: progress, limitations and perspectives in bioanalysis. <i>Bioanalysis</i> , 2016 , 8, 1077-103	2.1	16
33	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> , 2020 , 317, 110498	2.6	16
32	Quantitation of active pharmaceutical ingredient through the packaging using Raman handheld spectrophotometers: A comparison study. <i>Talanta</i> , 2020 , 207, 120306	6.2	16
3 ¹	Vibrational spectroscopy and microspectroscopy analyzing qualitatively and quantitatively pharmaceutical hot melt extrudates. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 113, 21-33	3.5	14
3 ⁰	Raman chemical imaging, a new tool in kidney stone structure analysis: Case-study and comparison to Fourier Transform Infrared spectroscopy. <i>PLoS ONE</i> , 2018 , 13, e0201460	3.7	14
29	Comparison of hyperspectral imaging techniques for the elucidation of falsified medicines composition. <i>Talanta</i> , 2019 , 198, 457-463	6.2	14
28	A simple approach for ultrasensitive detection of bisphenols by multiplexed surface-enhanced Raman scattering. <i>Analytica Chimica Acta</i> , 2015 , 888, 118-25	6.6	13
27	Evaluation of the analytical performances of two Raman handheld spectrophotometers for pharmaceutical solid dosage form quantitation. <i>Talanta</i> , 2020 , 214, 120888	6.2	12
26	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> , 2018 , 186, 8-16	6.2	11
25	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> , 2017 , 171, 45-52	6.2	10
24	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> , 2018 , 188, 584-592	6.2	10

23	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> , 2016 , 131, 380-390	3.5	9
22	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> , 2021 , 202, 114150	3.5	8
21	Poplar-Root Knot Nematode Interaction: A Model for Perennial Woody Species. <i>Molecular Plant-Microbe Interactions</i> , 2016 , 29, 560-72	3.6	6
20	Pixel-based Raman hyperspectral identification of complex pharmaceutical formulations. <i>Analytica Chimica Acta</i> , 2021 , 1155, 338361	6.6	6
19	Composition analysis of falsified chloroquine phosphate samples seized during the COVID-19 pandemic. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021 , 194, 113761	3.5	5
18	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> , 2021 , 3, 100025	5.6	5
17	Thorough characterization of a Self-Emulsifying Drug Delivery System with Raman hyperspectral imaging: a case study. <i>International Journal of Pharmaceutics</i> , 2015 , 484, 85-94	6.5	4
16	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> , 2020 , 233, 118180	4.4	4
15	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> , 2020 , 574, 118913	6.5	4
14	Design of experiments and design space approaches in the pharmaceutical bioprocess optimization. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021 , 166, 144-154	5.7	4
13	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> , 2016 , 154, 392-9	6.2	4
12	Detection of Poor Quality Artemisinin-based Combination Therapy (ACT) Medicines Marketed in Benin Using Simple and Advanced Analytical Techniques. <i>Current Drug Safety</i> , 2017 , 12, 178-186	1.4	3
11	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> , 2020 , 186, 113319	3.5	3
10	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> , 2021 , 1144, 130-149	6.6	3
9	Development of a prototype device for near real-time surface-enhanced Raman scattering monitoring of biological samples. <i>Talanta</i> , 2021 , 224, 121866	6.2	3
8	Evaluation of distributional homogeneity of pharmaceutical formulation using laser direct infrared imaging.. <i>International Journal of Pharmaceutics</i> , 2021 , 612, 121373	6.5	1
7	Monitoring of anatabine release by methyl jasmonate elicited BY-2 cells using surface-enhanced Raman scattering. <i>Talanta</i> , 2016 , 160, 754-760	6.2	1
6	Classification of polymorphic forms of fluconazole in pharmaceuticals by FT-IR and FT-NIR spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021 , 196, 113922	3.5	1

5	Poor-Quality Medicines in Cameroon: A Critical Review. <i>American Journal of Tropical Medicine and Hygiene</i> , 2021 ,	3.2	1
4	A pharmaceutical-related molecules dataset for reversed-phase chromatography retention time prediction built on combining pH and gradient time conditions.. <i>Data in Brief</i> , 2022 , 42, 108017	1.2	1
3	Selection of essential spectra to improve the multivariate curve resolution of minor compounds in complex pharmaceutical formulations.. <i>Analytica Chimica Acta</i> , 2022 , 1198, 339532	6.6	0
2	PAT Applications of NIR Spectroscopy in the Pharmaceutical Industry 2021 , 67-88		0
1	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> , 2022 , 215, 114755	3.5	0