Pierre-Yves Sacr

List of Publications by Year in Descending Order

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	Selection of essential spectra to improve the multivariate curve resolution of minor compounds in complex pharmaceutical formulations.. *Analytica Chimica Acta*, **2022**, 1198, 339532	6.6	0
57	Comparison of several strategies for the deployment of a multivariate regression model on several handheld NIR instruments. Application to the quality control of medicines.. *Journal of Pharmaceutical and Biomedical Analysis*, **2022**, 215, 114755	3.5	0
56	A pharmaceutical-related molecules dataset for reversed-phase chromatography retention time prediction built on combining pH and gradient time conditions.. *Data in Brief*, **2022**, 42, 108017	1.2	1
55	Evaluation of distributional homogeneity of pharmaceutical formulation using laser direct infrared imaging.. *International Journal of Pharmaceutics*, **2021**, 612, 121373	6.5	1
54	PAT Applications of NIR Spectroscopy in the Pharmaceutical Industry **2021**, 67-88		0
53	Pixel-based Raman hyperspectral identification of complex pharmaceutical formulations. *Analytica Chimica Acta*, **2021**, 1155, 338361	6.6	6
52	Design of experiments and design space approaches in the pharmaceutical bioprocess optimization. *European Journal of Pharmaceutics and Biopharmaceutics*, **2021**, 166, 144-154	5.7	4
51	A probabilistic class-modelling method based on prediction bands for functional spectral data: Methodological approach and application to near-infrared spectroscopy. *Analytica Chimica Acta*, **2021**, 1144, 130-149	6.6	3
50	Composition analysis of falsified chloroquine phosphate samples seized during the COVID-19 pandemic. *Journal of Pharmaceutical and Biomedical Analysis*, **2021**, 194, 113761	3.5	5
49	Development of a prototype device for near real-time surface-enhanced Raman scattering monitoring of biological samples. *Talanta*, **2021**, 224, 121866	6.2	3
48	Classification of polymorphic forms of fluconazole in pharmaceuticals by FT-IR and FT-NIR spectroscopy. *Journal of Pharmaceutical and Biomedical Analysis*, **2021**, 196, 113922	3.5	1
47	Poor-Quality Medicines in Cameroon: A Critical Review. *American Journal of Tropical Medicine and Hygiene*, **2021**,	3.2	1
46	Application of NIR handheld transmission spectroscopy and chemometrics to assess the quality of locally produced antimalarial medicines in the Democratic Republic of Congo. *Talanta Open*, **2021**, 3, 100025	5.6	5
45	New perspective for the in-field analysis of cannabis samples using handheld near-infrared spectroscopy: A case study focusing on the determination of Δ-tetrahydrocannabinol. *Journal of Pharmaceutical and Biomedical Analysis*, **2021**, 202, 114150	3.5	8
44	Effect of the functionalisation agent on the surface-enhanced Raman scattering (SERS) spectrum: Case study of pyridine derivatives. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 233, 118180	4.4	4
43	Evaluation of the analytical performances of two Raman handheld spectrophotometers for pharmaceutical solid dosage form quantitation. *Talanta*, **2020**, 214, 120888	6.2	12
42	Detection of low dose of piroxicam polymorph in pharmaceutical tablets by surface-enhanced Raman chemical imaging (SER-CI) and multivariate analysis. *International Journal of Pharmaceutics*, **2020**, 574, 118913	6.5	4

41	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. *Forensic Science International*, **2020**, 317, 110498	2.6	16
40	Quantitation of active pharmaceutical ingredient through the packaging using Raman handheld spectrophotometers: A comparison study. *Talanta*, **2020**, 207, 120306	6.2	16
39	Raman imaging as a new analytical tool for the quality control of the monitoring of osteogenic differentiation in forming 3D bone tissue. *Journal of Pharmaceutical and Biomedical Analysis*, **2020**, 186, 113319	3.5	3
38	Comparing the qualitative performances of handheld NIR and Raman spectrophotometers for the detection of falsified pharmaceutical products. *Talanta*, **2019**, 202, 469-478	6.2	29
37	Vibrational spectroscopy in analysis of pharmaceuticals: Critical review of innovative portable and handheld NIR and Raman spectrophotometers. *TrAC - Trends in Analytical Chemistry*, **2019**, 114, 251-259	14.6	80
36	Comparison of hyperspectral imaging techniques for the elucidation of falsified medicines composition. *Talanta*, **2019**, 198, 457-463	6.2	14
35	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. *Talanta*, **2018**, 186, 8-16	6.2	11
34	Critical review of surface-enhanced Raman spectroscopy applications in the pharmaceutical field. *Journal of Pharmaceutical and Biomedical Analysis*, **2018**, 147, 458-472	3.5	47
33	Raman chemical imaging, a new tool in kidney stone structure analysis: Case-study and comparison to Fourier Transform Infrared spectroscopy. *PLoS ONE*, **2018**, 13, e0201460	3.7	14
32	Towards a spray-coating method for the detection of low-dose compounds in pharmaceutical tablets using surface-enhanced Raman chemical imaging (SER-CI). *Talanta*, **2018**, 188, 584-592	6.2	10
31	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. *Talanta*, **2017**, 171, 45-52	6.2	10
30	Global regression model for moisture content determination using near-infrared spectroscopy. *European Journal of Pharmaceutics and Biopharmaceutics*, **2017**, 119, 343-352	5.7	22
29	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. *International Journal of Pharmaceutics*, **2017**, 530, 249-255	6.5	21
28	Detection of Poor Quality Artemisinin-based Combination Therapy (ACT) Medicines Marketed in Benin Using Simple and Advanced Analytical Techniques. *Current Drug Safety*, **2017**, 12, 178-186	1.4	3
27	Poplar-Root Knot Nematode Interaction: A Model for Perennial Woody Species. *Molecular Plant-Microbe Interactions*, **2016**, 29, 560-72	3.6	6
26	Moisture content determination in an antibody-drug conjugate freeze-dried medicine by near-infrared spectroscopy: A case study for release testing. *Journal of Pharmaceutical and Biomedical Analysis*, **2016**, 131, 380-390	3.5	9
25	From near-infrared and Raman to surface-enhanced Raman spectroscopy: progress, limitations and perspectives in bioanalysis. *Bioanalysis*, **2016**, 8, 1077-103	2.1	16
24	A simple calibration approach based on film-casting for confocal Raman microscopy to support the development of a hot-melt extrusion process. *Talanta*, **2016**, 154, 392-9	6.2	4

23	Screening study of SFC critical method parameters for the determination of pharmaceutical compounds. *Journal of Pharmaceutical and Biomedical Analysis*, **2016**, 125, 339-54	3.5	29
22	Monitoring of anatabine release by methyl jasmonate elicited BY-2 cells using surface-enhanced Raman scattering. *Talanta*, **2016**, 160, 754-760	6.2	1
21	Vibrational spectroscopy and microspectroscopy analyzing qualitatively and quantitatively pharmaceutical hot melt extrudates. *Journal of Pharmaceutical and Biomedical Analysis*, **2015**, 113, 21-33	3.5	14
20	Thorough characterization of a Self-Emulsifying Drug Delivery System with Raman hyperspectral imaging: a case study. *International Journal of Pharmaceutics*, **2015**, 484, 85-94	6.5	4
19	Development, validation and comparison of NIR and Raman methods for the identification and assay of poor-quality oral quinine drops. *Journal of Pharmaceutical and Biomedical Analysis*, **2015**, 111, 21-7	3.5	21
18	Optimization of a pharmaceutical tablet formulation based on a design space approach and using vibrational spectroscopy as PAT tool. *International Journal of Pharmaceutics*, **2015**, 486, 13-20	6.5	23
17	A simple approach for ultrasensitive detection of bisphenols by multiplexed surface-enhanced Raman scattering. *Analytica Chimica Acta*, **2015**, 888, 118-25	6.6	13
16	Active content determination of pharmaceutical tablets using near infrared spectroscopy as Process Analytical Technology tool. *Talanta*, **2015**, 144, 1352-9	6.2	19
15	Development of a quantitative approach using surface-enhanced Raman chemical imaging: first step for the determination of an impurity in a pharmaceutical model. *Journal of Pharmaceutical and Biomedical Analysis*, **2014**, 90, 111-8	3.5	19
14	A new criterion to assess distributional homogeneity in hyperspectral images of solid pharmaceutical dosage forms. *Analytica Chimica Acta*, **2014**, 818, 7-14	6.6	33
13	Data processing of vibrational chemical imaging for pharmaceutical applications. *Journal of Pharmaceutical and Biomedical Analysis*, **2014**, 101, 123-40	3.5	76
12	PAT tools for the control of co-extrusion implants manufacturing process. *International Journal of Pharmaceutics*, **2013**, 458, 15-24	6.5	33
11	Chromatography in the detection and characterization of illegal pharmaceutical preparations. *Journal of Chromatographic Science*, **2013**, 51, 791-806	1.4	54
10	Determination of 4-aminophenol in a pharmaceutical formulation using surface enhanced Raman scattering: from development to method validation. *Talanta*, **2013**, 116, 899-905	6.2	36
9	Evaluation of the residual solvent content of counterfeit tablets and capsules. *Journal of Pharmaceutical and Biomedical Analysis*, **2013**, 81-82, 80-8	3.5	18
8	Classification trees based on infrared spectroscopic data to discriminate between genuine and counterfeit medicines. *Journal of Pharmaceutical and Biomedical Analysis*, **2012**, 57, 68-75	3.5	39
7	A validated GC-MS method for the determination and quantification of residual solvents in counterfeit tablets and capsules. *Journal of Pharmaceutical and Biomedical Analysis*, **2012**, 70, 64-70	3.5	34
6	Chemometrics and chromatographic fingerprints to discriminate and classify counterfeit medicines containing PDE-5 inhibitors. *Talanta*, **2012**, 100, 123-33	6.2	29

5	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. *Journal of Chromatography A*, **2011**, 1218, 6439-47	4.5	43
4	Impurity fingerprints for the identification of counterfeit medicines--a feasibility study. *Analytica Chimica Acta*, **2011**, 701, 224-31	6.6	32
3	A fast ultra high pressure liquid chromatographic method for qualification and quantification of pharmaceutical combination preparations containing paracetamol, acetyl salicylic acid and/or antihistaminics. *Journal of Pharmaceutical and Biomedical Analysis*, **2011**, 56, 200-9	3.5	28
2	Detection of counterfeit Viagra by Raman microspectroscopy imaging and multivariate analysis. *Journal of Pharmaceutical and Biomedical Analysis*, **2011**, 56, 454-61	3.5	57
1	Comparison and combination of spectroscopic techniques for the detection of counterfeit medicines. *Journal of Pharmaceutical and Biomedical Analysis*, **2010**, 53, 445-53	3.5	98