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List of Publications by Year
in descending order

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49 papers	1,953 citations	331259 21 h-index	253896 43 g-index
49 all docs	49 docs citations	49 times ranked	2684 citing authors

#	Article	IF	Citations
1	Use of principal component analysis (PCA) and hierarchical cluster analysis (HCA) for multivariate association between bioactive compounds and functional properties in foods: A critical perspective. Trends in Food Science and Technology, 2018, 72, 83-90.	7.8	596
2	Monitoring of fatty acid composition in virgin olive oil by Fourier transformed infrared spectroscopy coupled with partial least squares. Food Chemistry, 2009, 114, 1549-1554.	4.2	146
3	Chemometric applications to assess quality and critical parameters of virgin and extra-virgin olive oil. A review. Analytica Chimica Acta, 2016, 913, 1-21.	2.6	135
4	A novel chemometric strategy for the estimation of extra virgin olive oil adulteration with edible oils. Food Control, 2010, 21, 890-895.	2.8	126
5	Pharmaceutical impurities and degradation products: Uses and applications of NMR techniques. Journal of Pharmaceutical and Biomedical Analysis, 2014, 101, 102-122.	1.4	68
6	A new principal component analysis-based approach for testing â€œsimilarityâ€•of drug dissolution profiles. European Journal of Pharmaceutical Sciences, 2008, 34, 66-77.	1.9	51
7	Practical and regulatory considerations for stability-indicating methods for the assay of bulk drugs and drug formulations. TrAC - Trends in Analytical Chemistry, 2013, 49, 57-70.	5.8	49
8	Four-way kinetic-excitation-emission fluorescence data processed by multi-way algorithms. Determination of carbaryl and 1-naphthol in water samples in the presence of fluorescent interferents. Analytica Chimica Acta, 2010, 677, 97-107.	2.6	47
9	Unfolded partial least-squares with residual quadrilinearization: A new multivariate algorithm for processing five-way data achieving the second-order advantage. Application to fourth-order excitation-emission-kinetic-pH fluorescence analytical data. Chemometrics and Intelligent Laboratory Systems, 2011, 109, 178-185.	1.8	47
10	Rapid FTIR determination of water, phenolics and antioxidant activity of olive oil. European Journal of Lipid Science and Technology, 2010, 112, 1150-1157.	1.0	46
11	Discrimination of grated cheeses by Fourier transform infrared spectroscopy coupled with chemometric techniques. International Dairy Journal, 2012, 23, 115-120.	1.5	40
12	Characterization of pharmaceutically relevant materials at the solid state employing chemometrics methods. Journal of Pharmaceutical and Biomedical Analysis, 2018, 147, 538-564.	1.4	35
13	Chemometrics-assisted solid-state characterization of pharmaceutically relevant materials. Polymorphic substances. Journal of Pharmaceutical and Biomedical Analysis, 2018, 147, 518-537.	1.4	33
14	A dynamic thermal ATR-FTIR/chemometric approach to the analysis of polymorphic interconversions. Cimetidine as a model drug. Journal of Pharmaceutical and Biomedical Analysis, 2014, 92, 90-97.	1.4	31
15	Mebendazole crystal forms in tablet formulations. An ATR-FTIR/chemometrics approach to polymorph assignment. Journal of Pharmaceutical and Biomedical Analysis, 2016, 122, 157-165.	1.4	31
16	Application of partial least square regression to differential scanning calorimetry data for fatty acid quantitation in olive oil. Food Chemistry, 2011, 127, 1899-1904.	4.2	30
17	A spectroscopic and chemometric study of virgin olive oils subjected to thermal stress. Food Chemistry, 2011, 127, 216-221.	4.2	29
18	Fluorescence Enhancement of Carbendazim in the Presence of Cyclodextrins and Micellar Media: A Reappraisal. Applied Spectroscopy, 2005, 59, 873-880.	1.2	25

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19	A multivariate approach for the simultaneous determination of losartan potassium and hydrochlorothiazide in a combined pharmaceutical tablet formulation. Analytical and Bioanalytical Chemistry, 2008, 391, 2949-2955.	1.9	25
20	Multivariate curve-resolution analysis of pesticides in water samples from liquid chromatographicâ€“diode array data. Talanta, 2011, 83, 1173-1180.	2.9	22
21	Assessment of mefenamic acid polymorphs in commercial tablets using chemometric coupled to MIR and NIR spectroscopies. Prediction of dissolution performance. Journal of Pharmaceutical and Biomedical Analysis, 2018, 149, 603-611.	1.4	22
22	Alternative and improved method for the simultaneous determination of fexofenadine and pseudoephedrine in their combined tablet formulation. Journal of Pharmaceutical and Biomedical Analysis, 2007, 45, 804-810.	1.4	20
23	Simultaneous acquisition of the dissolution curves of two active ingredients in a binary pharmaceutical association, employing an on-line circulation system and chemometrics-assistance. Journal of Pharmaceutical and Biomedical Analysis, 2013, 72, 51-58.	1.4	20
24	Detection of lowâ€quality extra virgin olive oils by fatty acid alkyl esters evaluation: a preliminary and fast midâ€infrared spectroscopy discrimination by a chemometric approach. International Journal of Food Science and Technology, 2013, 48, 548-555.	1.3	20
25	Influence of chemical composition of olive oil on the development of volatile compounds during frying. European Food Research and Technology, 2009, 230, 217-229.	1.6	19
26	Application of Differential Scanning Calorimetry-Chemometric Coupled Procedure to the Evaluation of Thermo-Oxidation on Extra Virgin Olive Oil. Food Biophysics, 2012, 7, 114-123.	1.4	19
27	A PCA-based chemometrics-assisted ATR-FTIR approach for the classification of polymorphs of cimetidine: Application to physical mixtures and tablets. Journal of Pharmaceutical and Biomedical Analysis, 2015, 107, 419-425.	1.4	19
28	Fourier transform infrared spectroscopyâ€“Partial Least Squares (FTIRâ€“PLS) coupled procedure application for the evaluation of fly attack on olive oil quality. LWT - Food Science and Technology, 2013, 50, 153-159.	2.5	18
29	Study of the influence of triacylglycerol composition on DSC cooling curves of extra virgin olive oil by chemometric data processing. Journal of Thermal Analysis and Calorimetry, 2014, 115, 2037-2044.	2.0	18
30	PCA-CR analysis of dissolution profiles. A chemometric approach to probe the polymorphic form of the active pharmaceutical ingredient in a drug product. International Journal of Pharmaceutics, 2009, 378, 187-193.	2.6	17
31	Why should the pharmaceutical industry claim for the implementation of second-order chemometric modelsâ€”A critical review. Journal of Pharmaceutical and Biomedical Analysis, 2020, 179, 112965.	1.4	16
32	PLS and first derivative of ratio spectra methods for determination of hydrochlorothiazide and propranolol hydrochloride in tablets. Analytical and Bioanalytical Chemistry, 2006, 386, 2239-2244.	1.9	15
33	Application of a chemometric method for simultaneous determination of acetaminophen and diclofenac in content-uniformity and drug-dissolution studies. Analytical and Bioanalytical Chemistry, 2005, 382, 1711-1714.	1.9	14
34	Determination of the main solid-state form of albendazole in bulk drug, employing Raman spectroscopy coupled to multivariate analysis. Journal of Pharmaceutical and Biomedical Analysis, 2016, 129, 190-197.	1.4	13
35	Preparation and characterization of a new solid form of praziquantel, an essential anthelmintic drug. Praziquantel racemic monohydrate. European Journal of Pharmaceutical Sciences, 2020, 146, 105267.	1.9	13
36	Thermally induced solid-state transformation of cimetidine. A multi-spectroscopic/chemometrics determination of the kinetics of the process and structural elucidation of one of the products as a stable N3-enamino tautomer. Analytica Chimica Acta, 2015, 875, 22-32.	2.6	12

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37	Preparation and Physical Characterization of a Diclofenac-Ranitidine Co-precipitate for Improving the Dissolution of Diclofenac. Journal of Pharmaceutical Sciences, 2016, 105, 1258-1268.	1.6	11
38	Chemometrics-assisted study of the interconversion between the crystalline forms of nimodipine. Journal of Pharmaceutical and Biomedical Analysis, 2018, 158, 461-470.	1.4	9
39	Chemometric study of the excipientsâ€™ influence on polymorphic-behavior. Mefenamic acid as case of study. Journal of Pharmaceutical and Biomedical Analysis, 2019, 170, 8-15.	1.4	9
40	An eco-friendly strategy, using on-line monitoring and dilution coupled to a second-order chemometric method, for the construction of dissolution curves of combined pharmaceutical associations. Journal of Pharmaceutical and Biomedical Analysis, 2014, 89, 213-220.	1.4	8
41	Preliminary Discrimination of Butter Adulteration by ATR-FTIR Spectroscopy. Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca: Food Science and Technology, 2015, 72, .	0.1	7
42	Development and validation of a green method for dissolution monitoring of pharmaceutical combinations. Meloxican and pridinol. Journal of Pharmaceutical and Biomedical Analysis, 2019, 170, 228-233.	1.4	5
43	Preliminary Discrimination of Cheese Adulteration by FT-IR Spectroscopy. Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca: Food Science and Technology, 2014, 71, .	0.1	4
44	Dual approach for concomitant monitoring of dissolution and transformation at solid-state. Mebendazole salts case study. Journal of Drug Delivery Science and Technology, 2020, 55, 101344.	1.4	4
45	A comprehensive approach toward concomitant triclabendazole polymorphism in pharmaceutical products. Journal of Drug Delivery Science and Technology, 2021, 62, 102386.	1.4	4
46	Unveiling meloxicam monohydrate process of dehydration by an at-line vibrational multi-spectroscopy approach. Journal of Pharmaceutical and Biomedical Analysis, 2021, 202, 114164.	1.4	2
47	A comparative approach of MIR, NIR and Raman based chemometric strategies for quantification of Form I of Meloxicam in commercial bulk drug. Microchemical Journal, 2022, 180, 107575.	2.3	2
48	Tackling quantitative polymorphic analysis through fixed-dose combination tablets production. Pyrazinamide polymorphic assessment. Journal of Pharmaceutical and Biomedical Analysis, 2021, 194, 113786.	1.4	1
49	Development of a general strategy for the quantification of pseudopolymorphs: analysis of cefadroxil monohydrate in commercial products. Journal of Pharmaceutical Investigation, 2020, 50, 425-433.	2.7	0