

Mãrcia Cristina Breitzkreitz

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,495
citations

394421

19
h-index

330143

37
g-index

55
all docs

55
docs citations

55
times ranked

2119
citing authors

#	ARTICLE	IF	CITATIONS
1	Statistical designs and response surface techniques for the optimization of chromatographic systems. <i>Journal of Chromatography A</i> , 2007, 1158, 2-14.	3.7	493
2	Determination of total sulfur in diesel fuel employing NIR spectroscopy and multivariate calibration. <i>Analyst</i> , The, 2003, 128, 1204-1207.	3.5	104
3	Nanostructured lipid carriers as robust systems for topical lidocaine-prilocaine release in dentistry. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 93, 192-202.	4.0	72
4	Natural lipids-based NLC containing lidocaine: from pre-formulation to in vivo studies. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 106, 102-112.	4.0	67
5	Characterization of semi-solid Self-Emulsifying Drug Delivery Systems (SEDDS) of atorvastatin calcium by Raman image spectroscopy and chemometrics. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013, 73, 3-12.	2.8	46
6	Conversion of D-Fructose to 5-(Hydroxymethyl)furfural: Evaluating Batch and Continuous Flow Conditions by Design of Experiments and In-Line FTIR Monitoring. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4220-4230.	6.7	46
7	Construction of a new functional platform by grafting poly(4-vinylpyridine) in multi-walled carbon nanotubes for complexing copper ions aiming the amperometric detection of L-cysteine. <i>Electrochimica Acta</i> , 2012, 71, 150-158.	5.2	44
8	Improved efficacy of naproxen-loaded NLC for temporomandibular joint administration. <i>Scientific Reports</i> , 2019, 9, 11160.	3.3	43
9	Optimization of biomass pretreatments using fractional factorial experimental design. <i>Biotechnology for Biofuels</i> , 2018, 11, 206.	6.2	37
10	Revisiting quick, easy, cheap, effective, rugged, and safe parameters for sample preparation in pesticide residue analysis of lettuce by liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2017, 1482, 11-22.	3.7	36
11	Optimised NLC: a nanotechnological approach to improve the anaesthetic effect of bupivacaine. <i>International Journal of Pharmaceutics</i> , 2017, 529, 253-263.	5.2	32
12	Rational design of polymer-lipid nanoparticles for docetaxel delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 175, 56-64.	5.0	32
13	Analysis of pharmaceutical pellets: An approach using near-infrared chemical imaging. <i>Analytica Chimica Acta</i> , 2011, 706, 113-119.	5.4	27
14	Combined column-mobile phase mixture statistical design optimization of high-performance liquid chromatographic analysis of multicomponent systems. <i>Journal of Chromatography A</i> , 2009, 1216, 1439-1449.	3.7	25
15	Nanohybrid hydrogels designed for transbuccal anesthesia. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 6453-6463.	6.7	24
16	Comparison of different chemometric methods to extract chemical and physical information from Raman images of homogeneous and heterogeneous semi-solid pharmaceutical formulations. <i>International Journal of Pharmaceutics</i> , 2018, 552, 119-129.	5.2	22
17	Characterization of the lipid profile from coconut (<i>Cocos nucifera</i> L.) oil of different varieties by electrospray ionization mass spectrometry associated with principal component analysis and independent component analysis. <i>Food Research International</i> , 2019, 123, 189-197.	6.2	22
18	Comprehensive analysis of phenolics compounds in citrus fruits peels by UPLC-PDA and UPLC-Q/TOF MS using a fused-core column. <i>Food Chemistry: X</i> , 2022, 14, 100262.	4.3	22

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19	Desenvolvimento de um algoritmo para identificação e correção de spikes em espectroscopia raman de imagem. <i>Quimica Nova</i> , 2012, 35, 612-615.	0.3	21
20	Injectable in situ forming nanogel: A hybrid Alginate-NLC formulation extends bupivacaine anesthetic effect. <i>Materials Science and Engineering C</i> , 2020, 109, 110608.	7.3	21
21	Hybrid nanofilms as topical anesthetics for pain-free procedures in dentistry. <i>Scientific Reports</i> , 2020, 10, 11341.	3.3	15
22	Authentication of plant-based protein powders and classification of adulterants as whey, soy protein, and wheat using FT-NIR in tandem with OC-PLS and PLS-DA models. <i>Food Control</i> , 2022, 132, 108489.	5.5	15
23	A pre-formulation study of tetracaine loaded in optimized nanostructured lipid carriers. <i>Scientific Reports</i> , 2021, 11, 21463.	3.3	15
24	A simplified and versatile multivariate calibration procedure for multiproduct quantification of pharmaceutical drugs in the presence of interferences using first order data and chemometrics. <i>Microchemical Journal</i> , 2019, 146, 202-209.	4.5	13
25	A didactic chemometrics experiment for design of experiments (DOE): evaluation of experimental conditions in the spectrophotometric determination of Iron II with <i>o</i> -phenanthroline. A tutorial, part III. <i>Quimica Nova</i> , 2014, 37, .	0.3	13
26	Evaluation of miscibility and polymorphism of synthetic and natural lipids for nanostructured lipid carrier (NLC) formulations by Raman mapping and multivariate curve resolution (MCR). <i>European Journal of Pharmaceutical Sciences</i> , 2019, 135, 51-59.	4.0	12
27	Improved hydrolysis yields and silica recovery by design of experiments applied to acid-alkali pretreatment in rice husks. <i>Industrial Crops and Products</i> , 2021, 170, 113676.	5.2	12
28	Trends in Raman chemical imaging. <i>Biomedical Spectroscopy and Imaging</i> , 2012, 1, 159-183.	1.2	11
29	Experimento didático de quimiometria para calibração multivariada na determinação de paracetamol em comprimidos comerciais utilizando espectroscopia no infravermelho próximo: um tutorial, parte II. <i>Quimica Nova</i> , 2013, 36, 1057-1065.	0.3	11
30	Multivariate statistical analysis of chemical and electrochemical oscillators for an accurate frequency selection. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 16423-16434.	2.8	11
31	Nanocarriers From Natural Lipids With In Vitro Activity Against <i>Campylobacter jejuni</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 571040.	3.9	11
32	Raman Imaging Spectroscopy: History, Fundamentals and Current Scenario of the Technique. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	10
33	Lipid nanoparticles loaded with butamben and designed to improve anesthesia at inflamed tissues. <i>Biomaterials Science</i> , 2021, 9, 3378-3389.	5.4	10
34	Articaine in functional NLC show improved anesthesia and anti-inflammatory activity in zebrafish. <i>Scientific Reports</i> , 2020, 10, 19733.	3.3	9
35	Unreplicated split-plot mixture designs and statistical models for optimizing mobile chromatographic phase and extraction solutions for fingerprint searches. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2007, 89, 82-89.	3.5	8
36	Raman imaging spectroscopic characterization of modified poly(dimethylsiloxane) for micro total analysis systems applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 100, 67-71.	3.9	8

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37	Study of the effect of the operating parameters on the separation of bioactive compounds of palm oil by ultra-high performance supercritical fluid chromatography using a design of experiments approach. Canadian Journal of Chemical Engineering, 2017, 95, 2306-2314.	1.7	7
38	Functional Hybrid Nanoemulsions for Sumatriptan Intranasal Delivery. Frontiers in Chemistry, 2020, 8, 589503.	3.6	7
39	Optimization of Atmospheric Pressure Photoionization for the Crude Oil Analysis Using Ultra-High Resolution Mass Spectrometry. Journal of the Brazilian Chemical Society, 2018, , .	0.6	6
40	Development of S75:R25 bupivacaine-loaded lipid nanoparticles functionalized with essential oils for treating melanoma. Journal of Chemical Technology and Biotechnology, 2021, 96, 2197-2207.	3.2	6
41	Bupivacaine (S75:R25) Loaded in Nanostructured Lipid Carriers: Factorial Design, HPLC Quantification Method and Physicochemical Stability Study. Current Drug Delivery, 2018, 15, 388-396.	1.6	6
42	Telechelic Poly(bisphenol A carbonate) Synthesis by Glycolysis: A Response Surface Methodology Approach. Industrial & Engineering Chemistry Research, 2017, 56, 3983-3992.	3.7	5
43	Extraction of information about structural changes in a semisolid pharmaceutical formulation from near-infrared and Raman images by multivariate curve resolution "alternating least squares and ComDim. Journal of Chemometrics, 2020, 34, e3288.	1.3	5
44	Sequential design of experiments approach for the multiproduct analysis of cholesterol-lowering drugs by ultra-high performance supercritical fluid chromatography. Journal of Separation Science, 2020, 43, 4234-4242.	2.5	5
45	Ash Influence on the Ethyl Levulinate Production from Sugarcane Molasses Mediated by Taurine Hydrogen Sulfate. ACS Sustainable Chemistry and Engineering, 2021, 9, 13438-13449.	6.7	5
46	Classical Least Squares Combined with Spectral Interval Selection Using Genetic Algorithm for Prediction of Constituents in Pharmaceutical Solid Dosage Forms from near Infrared Chemical Imaging Data. Journal of Near Infrared Spectroscopy, 2016, 24, 157-169.	1.5	4
47	Multiblock modelling on the study of the kinetic degradation of rosuvastatin calcium in the presence of retention time shifts and rank deficiency. Analytica Chimica Acta, 2020, 1133, 77-87.	5.4	4
48	Study of the chromatographic parameters of ultra-high performance supercritical fluid chromatography and method development using a design of experiments approach for the quantification of pesticides in lettuce. Journal of Separation Science, 2018, 41, 3339-3345.	2.5	3
49	Raman Imaging and Chemometrics Evaluation of Natural and Synthetic Beeswaxes as Matrices for Nanostructured Lipid Carriers Development. Brazilian Journal of Analytical Chemistry, 2021, 8, .	0.5	3
50	Metabolite Profiling of Soy By-Products: A Comprehensive Approach. Journal of Agricultural and Food Chemistry, 2022, 70, 7321-7341.	5.2	3
51	Analytical Quality by Design. Brazilian Journal of Analytical Chemistry, 2021, 8, 1-5.	0.5	2
52	Hybrid Nanobeads for Oral Indomethacin Delivery. Pharmaceutics, 2022, 14, 583.	4.5	2
53	Quantification of palm oil bioactive compounds by ultra-high performance supercritical fluid chromatography and chemometrics. Canadian Journal of Chemical Engineering, 2021, , .	1.7	1
54	Multivariate Curve Resolution Alternating Least Squares applied to Chromatographic Data: From the Basics to the Recent Advances. Brazilian Journal of Analytical Chemistry, 2021, 8, .	0.5	1

#	ARTICLE	IF	CITATIONS
55	Análise multiproduto de fármacos usando detecção no ultravioleta e ferramentas quimiométricas buscando a resolução de interferências. Revista Dos Trabalhos De Iniciação Científica Da UNICAMP, 2019, , .	0.0	0