

Serena Orlandini

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74
papers

1,929
citations

26
h-index

40
g-index

76
ext. papers

2,197
ext. citations

4.7
avg. IF

4.84
L-index

#	Paper	IF	Citations
74	QuEChERS sample preparation for the determination of pesticides and other organic residues in environmental matrices: a critical review. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 4089-116	4.4	202
73	Application of quality by design to the development of analytical separation methods. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 443-50	4.4	128
72	Multivariate optimization of capillary electrophoresis methods: a critical review. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 87, 290-307	3.5	72
71	Identification and determination of mainstream and sidestream smoke components in different brands and types of cigarettes by means of solid-phase microextraction-gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2008 , 1180, 138-50	4.5	65
70	Development and characterization of functionalized niosomes for brain targeting of dynorphin-B. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014 , 87, 73-9	5.7	56
69	Recent advances in chiral separation of amino acids using capillary electromigration techniques. <i>Journal of Chromatography A</i> , 2014 , 1363, 41-50	4.5	54
68	Quality by design in the chiral separation strategy for the determination of enantiomeric impurities: development of a capillary electrophoresis method based on dual cyclodextrin systems for the analysis of levosulpiride. <i>Journal of Chromatography A</i> , 2015 , 1380, 177-85	4.5	49
67	Polyphenolic profiles and antioxidant and antiradical activity of Italian berries from <i>Vaccinium myrtillus</i> L. and <i>Vaccinium uliginosum</i> L. subsp. <i>gaultherioides</i> (Bigelow) S.B. Young. <i>Food Chemistry</i> , 2016 , 204, 176-184	8.5	48
66	Designing experiments to optimise and validate the adsorptive stripping voltammetric determination of nimesulide. <i>Analytica Chimica Acta</i> , 2000 , 413, 229-239	6.6	44
65	Risk-based approach for method development in pharmaceutical quality control context: A critical review. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 161, 110-121	3.5	42
64	Innovative combination of QuEChERS extraction with on-line solid-phase extract purification and pre-concentration, followed by liquid chromatography-tandem mass spectrometry for the determination of non-steroidal anti-inflammatory drugs and their metabolites in sewage sludge. <i>Journal of Chromatography A</i> , 2014 , 1275, 216-24	6.6	41
63	Quality by Design approach in the development of a solvent-modified micellar electrokinetic chromatography method: finding the design space for the determination of amitriptyline and its impurities. <i>Analytica Chimica Acta</i> , 2013 , 802, 113-24	6.6	40
62	Micellar electrokinetic chromatography for the simultaneous determination of ketorolac tromethamine and its impurities. Multivariate optimization and validation. <i>Journal of Chromatography A</i> , 2004 , 1032, 253-63	4.5	39
61	Determination of stability constant values of flurbiprofen-cyclodextrin complexes using different techniques. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005 , 37, 995-1002	3.5	39
60	How experimental design can improve the validation process. Studies in pharmaceutical analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2003 , 377, 937-44	4.4	33
59	An integrated quality by design and mixture-process variable approach in the development of a capillary electrophoresis method for the analysis of almotriptan and its impurities. <i>Journal of Chromatography A</i> , 2014 , 1339, 200-9	4.5	31
58	Mixture-process variable approach to optimize a microemulsion electrokinetic chromatography method for the quality control of a nutraceutical based on coenzyme Q10. <i>Talanta</i> , 2012 , 97, 73-82	6.2	31

57	Enantioseparation and impurity determination of ambrisentan using cyclodextrin-modified micellar electrokinetic chromatography: Visualizing the design space within quality by design framework. <i>Journal of Chromatography A</i> , 2016 , 1467, 363-371	4.5	31
56	Liquid chromatographic/electrospray ionization quadrupole/time of flight tandem mass spectrometric study of polyphenolic composition of different Vaccinium berry species and their comparative evaluation. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 1347-1368	4.4	30
55	Quinoline alkaloids in honey: further analytical (HPLC-DAD-ESI-MS, multidimensional diffusion-ordered NMR spectroscopy), theoretical and chemometric studies. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009 , 50, 432-9	3.5	30
54	Cyclodextrin-MEEKC for the analysis of oxybutynin and its impurities. <i>Talanta</i> , 2009 , 80, 781-8	6.2	30
53	A comprehensive strategy in the development of a cyclodextrin-modified microemulsion electrokinetic chromatographic method for the assay of diclofenac and its impurities: Mixture-process variable experiments and quality by design. <i>Journal of Chromatography A</i> , 2016 , 1466, 189-98	4.5	30
52	Optimization of dissolution test precision for a ketoprofen oral extended-release product. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003 , 32, 159-65	3.5	29
51	Mixture design in the optimization of a microemulsion system for the electrokinetic chromatographic determination of ketorolac and its impurities: method development and validation. <i>Electrophoresis</i> , 2006 , 27, 805-18	3.6	28
50	Combination of capillary electrophoresis, molecular modeling and NMR to study the enantioselective complexation of sulpiride with double cyclodextrin systems. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 114, 265-71	3.5	27
49	Amidated pectin-based wafers for econazole buccal delivery: formulation optimization and antimicrobial efficacy estimation. <i>Carbohydrate Polymers</i> , 2015 , 121, 231-40	10.3	27
48	Analytical quality by design: Development and control strategy for a LC method to evaluate the cannabinoids content in cannabis olive oil extracts. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 166, 326-335	3.5	25
47	Microemulsion electrokinetic chromatography: an application for the simultaneous determination of suspected fragrance allergens in rinse-off products. <i>Talanta</i> , 2010 , 83, 72-7	6.2	25
46	Removal efficiency and mass balance of polycyclic aromatic hydrocarbons, phthalates, ethoxylated alkylphenols and alkylphenols in a mixed textile-domestic wastewater treatment plant. <i>Science of the Total Environment</i> , 2019 , 674, 36-48	10.2	24
45	Analysis of ketorolac and its related impurities by capillary electrochromatography. <i>Journal of Chromatography A</i> , 2004 , 1044, 295-303	4.5	24
44	Applicability of the direct injection liquid chromatographic tandem mass spectrometric analytical approach to the sub-ngL determination of perfluoro-alkyl acids in waste, surface, ground and drinking water samples. <i>Talanta</i> , 2018 , 176, 412-421	6.2	24
43	Chiral analysis of theanine and catechin in characterization of green tea by cyclodextrin-modified micellar electrokinetic chromatography and high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2018 , 1562, 115-122	4.5	24
42	Liquid chromatographic-tandem mass spectrometric method for the simultaneous determination of alkylphenols polyethoxylates, alkylphenoxy carboxylates and alkylphenols in wastewater and surface-water. <i>Journal of Chromatography A</i> , 2014 , 1362, 75-88	4.5	22
41	Development and validation of a differential pulse polarographic method for quinolinic acid determination in human plasma and urine after solid-phase extraction: a chemometric approach. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1998 , 17, 1015-28	3.5	22
40	Optimisation and validation of a capillary electrophoresis method for the simultaneous determination of diazepam and otilonium bromide. <i>Analyst, The</i> , 2001 , 126, 1700-6	5	22

39	Multivariate optimisation and validation of a capillary electrophoresis method for the analysis of resveratrol in a nutraceutical. <i>Talanta</i> , 2008 , 74, 570-7	6.2	21
38	Chiral cyclodextrin-modified micellar electrokinetic chromatography and chemometric techniques for green tea samples origin discrimination. <i>Talanta</i> , 2016 , 150, 7-13	6.2	20
37	Development of a capillary electrophoresis method for the assay of ramipril and its impurities: an issue of cis-trans isomerization. <i>Journal of Chromatography A</i> , 2011 , 1218, 2611-7	4.5	20
36	Pitfalls and success of experimental design in the development of a mixed MEKC method for the analysis of budesonide and its impurities. <i>Electrophoresis</i> , 2009 , 30, 633-43	3.6	20
35	Analytical quality by design in the development of a cyclodextrin-modified capillary electrophoresis method for the assay of metformin and its related substances. <i>Electrophoresis</i> , 2014 , 35, 2538-45	3.6	19
34	Cyclodextrin- and solvent-modified micellar electrokinetic chromatography for the determination of captopril, hydrochlorothiazide and their impurities: A Quality by Design approach. <i>Talanta</i> , 2016 , 160, 332-339	6.2	19
33	Chiral capillary zone electrophoresis in enantioseparation and analysis of cinacalcet impurities: Use of Quality by Design principles in method development. <i>Journal of Chromatography A</i> , 2018 , 1568, 205-213	4.5	18
32	Optimization and validation of a CZE method for rifloxacin hydrochloride determination in coated tablets. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2002 , 28, 1161-71	3.5	18
31	Analytical Quality by Design in pharmaceutical quality assurance: Development of a capillary electrophoresis method for the analysis of zolmitriptan and its impurities. <i>Electrophoresis</i> , 2015 , 36, 2642-2649 ¹⁷	3.6	17
30	Optimized hydrolytic methods by response surface methodology to accurately estimate the phenols in cereal by HPLC-DAD: The case of millet. <i>Food Chemistry</i> , 2020 , 303, 125393	8.5	17
29	Determination of phthalate diesters and monoesters in human milk and infant formula by fat extraction, size-exclusion chromatography clean-up and gas chromatography-mass spectrometry detection. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 148, 6-16	3.5	16
28	Combined approach using capillary electrophoresis, NMR and molecular modeling for ambrisentan related substances analysis: Investigation of intermolecular affinities, complexation and separation mechanism. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017 , 144, 220-229	3.5	16
27	Dual CD system-modified MEEKC method for the determination of clemastine and its impurities. <i>Electrophoresis</i> , 2010 , 31, 3296-304	3.6	16
26	Physicochemical properties and sorption capacities of sawdust-based biochars and commercial activated carbons towards ethoxylated alkylphenols and their phenolic metabolites in effluent wastewater from a textile district. <i>Science of the Total Environment</i> , 2020 , 708, 135217	10.2	15
25	Fast analysis of glibenclamide and its impurities: quality by design framework in capillary electrophoresis method development. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 7637-46	4.4	14
24	Quality by design approach in the development of an ultra-high-performance liquid chromatography method for Bexsero meningococcal group B vaccine. <i>Talanta</i> , 2018 , 178, 552-562	6.2	14
23	Development of a CZE method for the determination of mizolastine and its impurities in pharmaceutical preparations using response surface methodology. <i>Electrophoresis</i> , 2007 , 28, 395-405	3.6	14
22	Optimization and validation of a method based on QuEChERS extraction and liquid chromatographic-tandem mass spectrometric analysis for the determination of perfluoroalkyl acids in strawberry and olive fruits, as model crops with different matrix characteristics. <i>Journal of Chromatography A</i> , 2020 , 1621, 461038	4.5	13

21	Chiral separation of terbutaline and non-steroidal anti-inflammatory drugs by using a new lysine-bridged hemispherodextrin in capillary electrophoresis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017 , 145, 734-741	3.5	13
20	Combining excitation-emission matrix fluorescence spectroscopy, parallel factor analysis, cyclodextrin-modified micellar electrokinetic chromatography and partial least squares class-modelling for green tea characterization. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 159, 311-317	3.5	12
19	Evaluation of the separation mechanism of electrokinetic chromatography with a microemulsion and cyclodextrins using NMR and molecular modeling. <i>Electrophoresis</i> , 2011 , 32, 3062-9	3.6	12
18	Quantitative amino acids profile of monofloral bee pollens by microwave hydrolysis and fluorimetric high performance liquid chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 173, 144-153	3.5	9
17	Quality by design compliant strategy for the development of a liquid chromatography-tandem mass spectrometry method for the determination of selected polyphenols in Diospyros kaki. <i>Journal of Chromatography A</i> , 2018 , 1569, 79-90	4.5	8
16	Quality by Design as a risk-based strategy in pharmaceutical analysis: Development of a liquid chromatography-tandem mass spectrometry method for the determination of nintedanib and its impurities. <i>Journal of Chromatography A</i> , 2020 , 1611, 460615	4.5	8
15	Development of novel cocrystal-based active food packaging by a Quality by Design approach. <i>Food Chemistry</i> , 2021 , 347, 129051	8.5	8
14	Genetic diversity and changes in phenolic contents and antiradical activity of <i>Vaccinium myrtillus</i> berries from its southernmost growing area in Italy. <i>Genetic Resources and Crop Evolution</i> , 2018 , 65, 1173-1186	7	7
13	<i>Allanblackia floribunda</i> Oliv.: An aphrodisiac plant with vasorelaxant properties. <i>Journal of Ethnopharmacology</i> , 2016 , 192, 480-485	5	7
12	A preliminary study for the development and optimization by experimental design of an in vitro method for prediction of drug buccal absorption. <i>International Journal of Pharmaceutics</i> , 2018 , 547, 530-536	6.5	6
11	The successful binomium of multivariate strategies and electrophoresis for the Quality by Design separation of a class of drugs: the case of triptans. <i>Electrophoresis</i> , 2015 , 36, 2650-2657	3.6	6
10	Geographical characterisation of honeys according to their mineral content and antioxidant activity using a chemometric approach. <i>International Journal of Food Science and Technology</i> , 2014 , 49, 1351-1359	3.8	6
9	Selection of background electrolyte for CZE analysis by a chemometric approach. Part I. Separation of a mixture of acidic non-steroidal anti-inflammatory drugs. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007 , 43, 1388-401	3.5	6
8	Exploring the intermolecular interactions acting in solvent-modified MEKC by Molecular Dynamics and NMR: The effect of n-butanol on the separation of diclofenac and its impurities. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 149, 249-257	3.5	5
7	Selection of background electrolyte for CZE analysis by a chemometric approach. Part II. Separation of a mixture of basic beta-blocker drugs. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007 , 43, 1402-8	3.5	4
6	A new MS compatible HPLC-UV method for Teicoplanin drug substance and related impurities, part 1: Development and validation studies. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 162, 185-191	3.5	4
5	Phenolic compounds in Rojo Brillante and Kaki Tipo persimmons at commercial harvest and in response to CO ₂ and ethylene treatments for astringency removal. <i>LWT - Food Science and Technology</i> , 2019 , 100, 99-105	5.4	3
4	Quality by design optimization of a liquid chromatographic-tandem mass spectrometric method for the simultaneous analysis of structurally heterogeneous pharmaceutical compounds and its application to the rapid screening in wastewater and surface water samples by large volume direct injection. <i>Journal of Chromatography A</i> , 2021 , 1648, 460005	4.5	3

3	Application of Experimental Design Methodologies in the Enantioseparation of Pharmaceuticals by Capillary Electrophoresis: A Review. <i>Molecules</i> , 2021 , 26,	4.8	3
2	A simple and selective electrochemical magneto-assay for sea lice eDNA detection developed with a Quality by Design approach. <i>Science of the Total Environment</i> , 2021 , 791, 148111	10.2	2
1	Analytical quality by design in the development of a solvent-modified micellar electrokinetic chromatography method for the determination of sitagliptin and its related compounds. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021 , 202, 114163	3.5	1