

Serena Orlandini

List of Publications by Year in descending order

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76
papers

2,547
citations

172386

29
h-index

223716

46
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76
all docs

76
docs citations

76
times ranked

2715
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 4089-4116.	1.9	244
2	Application of quality by design to the development of analytical separation methods. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 443-450.	1.9	191
3	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.	1.4	88
4	Multivariate optimization of capillary electrophoresis methods: A critical review. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 87, 290-307.	1.4	85
5	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, 138-150.	1.8	72
6	Development and characterization of functionalized niosomes for brain targeting of dynorphin-B. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 87, 73-79.	2.0	66
7	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.	4.2	65
8	Recent advances in chiral separation of amino acids using capillary electromigration techniques. <i>Journal of Chromatography A</i> , 2014, 1363, 41-50.	1.8	61
9	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, 177-185.	1.8	59
10	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>Analytica Chimica Acta</i> , 2016, 935, 269-281.	2.6	55
11	Designing experiments to optimise and validate the adsorptive stripping voltammetric determination of nimesulide. <i>Analytica Chimica Acta</i> , 2000, 413, 229-239.	2.6	52
12	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.	1.4	52
13	Quinoline alkaloids in honey: Further analytical (HPLC-DAD-ESI-MS, multidimensional) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 2 <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009, 50, 432-439.	1.4	47
14	Micellar electrokinetic chromatography for the simultaneous determination of ketorolac tromethamine and its impurities. <i>Journal of Chromatography A</i> , 2004, 1032, 253-263.	1.8	44
15	Determination of stability constant values of flurbiprofen-cyclodextrin complexes using different techniques. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005, 37, 995-1002.	1.4	43
16	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, 113-124.	2.6	41
17	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, 200-209.	1.8	38
18	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.	1.8	38

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19	How experimental design can improve the validation process. Studies in pharmaceutical analysis. Analytical and Bioanalytical Chemistry, 2003, 377, 937-944.	1.9	37
20	Liquid chromatographic/electrospray ionization quadrupole/time of flight tandem mass spectrometric study of polyphenolic composition of different Vaccinium berry species and their comparative evaluation. Analytical and Bioanalytical Chemistry, 2017, 409, 1347-1368.	1.9	37
21	Removal efficiency and mass balance of polycyclic aromatic hydrocarbons, phthalates, ethoxylated alkylphenols and alkylphenols in a mixed textile-domestic wastewater treatment plant. Science of the Total Environment, 2019, 674, 36-48.	3.9	37
22	Amidated pectin-based wafers for econazole buccal delivery: Formulation optimization and antimicrobial efficacy estimation. Carbohydrate Polymers, 2015, 121, 231-240.	5.1	35
23	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. Journal of Chromatography A, 2016, 1466, 189-198.	1.8	34
24	Chiral analysis of theanine and catechin in characterization of green tea by cyclodextrin-modified micellar electrokinetic chromatography and high performance liquid chromatography. Journal of Chromatography A, 2018, 1562, 115-122.	1.8	34
25	Mixture design in the optimization of a microemulsion system for the electrokinetic chromatographic determination of ketorolac and its impurities: Method development and validation. Electrophoresis, 2006, 27, 805-818.	1.3	33
26	Mixture-process variable approach to optimize a microemulsion electrokinetic chromatography method for the quality control of a nutraceutical based on coenzyme Q10. Talanta, 2012, 97, 73-82.	2.9	33
27	Applicability of the direct injection liquid chromatographic tandem mass spectrometric analytical approach to the sub-ng L ⁻¹ determination of perfluoro-alkyl acids in waste, surface, ground and drinking water samples. Talanta, 2018, 176, 412-421.	2.9	33
28	Optimization of dissolution test precision for a ketoprofen oral extended-release product. Journal of Pharmaceutical and Biomedical Analysis, 2003, 32, 159-165.	1.4	30
29	Cyclodextrin-MEEKC for the analysis of oxybutynin and its impurities. Talanta, 2009, 80, 781-788.	2.9	30
30	Combination of capillary electrophoresis, molecular modeling and NMR to study the enantioselective complexation of sulphiride with double cyclodextrin systems. Journal of Pharmaceutical and Biomedical Analysis, 2015, 114, 265-271.	1.4	30
31	Chiral capillary zone electrophoresis in enantioseparation and analysis of cinacalcet impurities: Use of Quality by Design principles in method development. Journal of Chromatography A, 2018, 1568, 205-213.	1.8	30
32	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. Journal of Chromatography A, 2020, 1621, 461038.	1.8	30
33	Analysis of ketorolac and its related impurities by capillary electrochromatography. Journal of Chromatography A, 2004, 1044, 295-303.	1.8	28
34	Multivariate optimisation and validation of a capillary electrophoresis method for the analysis of resveratrol in a nutraceutical. Talanta, 2008, 74, 570-577.	2.9	28
35	Optimisation and validation of a capillary electrophoresis method for the simultaneous determination of diazepam and otilonium bromide. Analyst, The, 2001, 126, 1700-1706.	1.7	27
36	Microemulsion electrokinetic chromatography: An application for the simultaneous determination of suspected fragrance allergens in rinse-off products. Talanta, 2010, 83, 72-77.	2.9	27

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37	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.	2.9	27
38	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.	4.2	27
39	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.	3.9	27
40	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, 1015-1028.	1.4	25
41	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.	1.8	25
42	Development of novel cocrystal-based active food packaging by a Quality by Design approach. <i>Food Chemistry</i> , 2021, 347, 129051.	4.2	25
43	Chiral cyclodextrin-modified micellar electrokinetic chromatography and chemometric techniques for green tea samples origin discrimination. <i>Talanta</i> , 2016, 150, 7-13.	2.9	24
44	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.	1.4	24
45	Optimization and validation of a CZE method for rifloxacin hydrochloride determination in coated tablets. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2002, 28, 1161-1171.	1.4	23
46	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, 2538-2545.	1.3	22
47	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.	2.9	21
48	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.	1.4	21
49	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, 633-643.	1.3	20
50	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, 2611-2617.	1.8	20
51	Quality by design compliant strategy for the development of a liquid chromatography-tandem mass spectrometry method for the determination of selected polyphenols in <i>Diospyros kaki</i> . <i>Journal of Chromatography A</i> , 2018, 1569, 79-90.	1.8	20
52	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.	1.8	20
53	Application of Experimental Design Methodologies in the Enantioseparation of Pharmaceuticals by Capillary Electrophoresis: A Review. <i>Molecules</i> , 2021, 26, 4681.	1.7	19
54	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.	1.3	18

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55	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.	1.4	17
56	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.	1.3	16
57	Dual CD system—modified MEEKC method for the determination of clemastine and its impurities. <i>Electrophoresis</i> , 2010, 31, 3296-3304.	1.3	16
58	Fast analysis of glibenclamide and its impurities: quality by design framework in capillary electrophoresis method development. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 7637-7646.	1.9	16
59	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.	1.4	15
60	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.	1.4	14
61	Evaluation of the separation mechanism of electrokinetic chromatography with a microemulsion and cyclodextrins using NMR and molecular modeling. <i>Electrophoresis</i> , 2011, 32, 3062-3069.	1.3	12
62	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, 1649, 462225.	1.8	12
63	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.	1.4	12
64	Allanblackia floribunda Oliv.: An aphrodisiac plant with vasorelaxant properties. <i>Journal of Ethnopharmacology</i> , 2016, 192, 480-485.	2.0	10
65	Genetic diversity and changes in phenolic contents and antiradical activity of Vaccinium myrtillus berries from its southernmost growing area in Italy. <i>Genetic Resources and Crop Evolution</i> , 2018, 65, 1173-1186.	0.8	10
66	Quality by Design in optimizing the extraction of (poly)phenolic compounds from Vaccinium myrtillus berries. <i>Journal of Chromatography A</i> , 2022, 1677, 463329.	1.8	10
67	Selection of background electrolyte for CZE analysis by a chemometric approach. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007, 43, 1388-1401.	1.4	9
68	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.	2.6	9
69	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.	1.4	8
70	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.	1.4	8
71	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.	1.3	7
72	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.	3.9	7

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73	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.	1.3	6
74	Selection of background electrolyte for CZE analysis by a chemometric approach. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007, 43, 1402-1408.	1.4	4
75	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.	2.5	4
76	Development and Optimization by Quality by Design Strategies of Frovatriptan Orally Disintegrating Tablets for Migraine Management. <i>Current Drug Delivery</i> , 2018, 15, 436-445.	0.8	3