

# Anne-Catherine Servais

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

1,303  
citations

279798

23  
h-index

395702

33  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1168  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of chemo- and stereoselectivity for phosphorothioate oligonucleotides in capillary electrophoresis by addition of cyclodextrins. <i>Journal of Chromatography A</i> , 2022, 1676, 463270.	3.7	4
2	Qualitative and quantitative comparison of different commercially available 1 $\alpha$ -84 parathyroid hormone proteins to the WHO international standard 95/646 using orthogonal methods. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 219, 114942.	2.8	0
3	Development of a sensitive MEKC- $\mu$ EF method for synthetic cathinones analysis. <i>Electrophoresis</i> , 2021, 42, 1127-1134.	2.4	6
4	Blood Microsampling to Monitor Metabolic Profiles During Physical Exercise. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 681400.	3.5	8
5	Analytical techniques currently used in the pharmaceutical industry for the quality control of RNA-based therapeutics and ongoing developments. <i>Journal of Chromatography A</i> , 2021, 1651, 462283.	3.7	12
6	Comparison of Three Complementary Analytical Techniques for the Evaluation of the Biosimilar Comparability of a Monoclonal Antibody and an Fc-Fusion Protein. <i>Frontiers in Chemistry</i> , 2021, 9, 782099.	3.6	0
7	Evaluation of hydrophilic interaction liquid chromatography, capillary zone electrophoresis and drift tube ion-mobility quadrupole time of flight mass spectrometry for the characterization of phosphodiester and phosphorothioate oligonucleotides. <i>Journal of Chromatography A</i> , 2020, 1614, 460716.	3.7	30
8	Capillary Electrophoresis-Mass Spectrometry at Trial by Metabo-Ring: Effective Electrophoretic Mobility for Reproducible and Robust Compound Annotation. <i>Analytical Chemistry</i> , 2020, 92, 14103-14112.	6.5	44
9	Benefits of microsampling and microextraction for metabolomics studies. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 127, 115899.	11.4	16
10	Hyphenation of capillary zone electrophoresis with mass spectrometry for proteomic analysis: Optimization and comparison of two coupling interfaces. <i>Journal of Chromatography A</i> , 2020, 1618, 460873.	3.7	14
11	Enhancing protein discoverability by data independent acquisition assisted by ion mobility mass spectrometry. <i>Talanta</i> , 2020, 213, 120812.	5.5	13
12	Targeted proteomics reveals serum amyloid A variants and alarmins S100A8-S100A9 as key plasma biomarkers of rheumatoid arthritis. <i>Talanta</i> , 2019, 204, 507-517.	5.5	24
13	Determination of iohexol by capillary blood microsampling and UHPLC-MS/MS. <i>Journal of Pharmaceutical Analysis</i> , 2019, 9, 259-265.	5.3	11
14	Selectivity evaluation of phenyl based stationary phases for the analysis of amino acid diastereomers by liquid chromatography coupled with mass spectrometry. <i>Journal of Chromatography A</i> , 2019, 1590, 80-87.	3.7	17
15	Enantioseparations in Nonaqueous Capillary Electrophoresis Using Charged Cyclodextrins. <i>Methods in Molecular Biology</i> , 2019, 1985, 373-381.	0.9	2
16	Application of Dual-Cyclodextrin Systems in Capillary Electrophoresis Enantioseparations. <i>Methods in Molecular Biology</i> , 2019, 1985, 357-364.	0.9	3
17	Highly sensitive and selective separation of intact parathyroid hormone and variants by sheathless CE- $\mu$ ESI-MS/MS. <i>Electrophoresis</i> , 2019, 40, 1550-1557.	2.4	18
18	Production and characterization of virus-like particles of grapevine fanleaf virus presenting L2 epitope of human papillomavirus minor capsid protein. <i>BMC Biotechnology</i> , 2019, 19, 81.	3.3	15

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19	Capillary electrophoresis, high-performance liquid chromatography, and thin-layer chromatography analyses of phenolic compounds from rapeseed plants and evaluation of their antioxidant activity. <i>Journal of Separation Science</i> , 2019, 42, 609-618.	2.5	10
20	Ultra-high-performance liquid chromatography-mass spectrometry method for neutrophil gelatinase-associated lipocalin as a predictive biomarker in acute kidney injury. <i>Talanta</i> , 2019, 195, 668-675.	5.5	7
21	Stability of 90 mg/mL cefuroxime sodium solution for administration by continuous infusion. <i>Journal of Chemotherapy</i> , 2018, 30, 371-374.	1.5	5
22	Separation and determination of alpha-synuclein monomeric and oligomeric species using two electrophoretic approaches. <i>Electrophoresis</i> , 2018, 39, 3022-3031.	2.4	11
23	Capillary electrophoresis-mass spectrometry of derivatized amino acids for targeted neurometabolomics - pH mediated reversal of diastereomer migration order. <i>Journal of Chromatography A</i> , 2018, 1564, 199-206.	3.7	16
24	Capillary electrophoresis in the context of drug discovery. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 144, 195-212.	2.8	28
25	Single and dual cyclodextrins systems for the enantiomeric and diastereoisomeric separations of structurally related dihydropyridone analogues. <i>Electrophoresis</i> , 2017, 38, 1922-1931.	2.4	10
26	Whole blood microsampling for the quantitation of estetrol without derivatization by liquid chromatography-tandem mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 140, 258-265.	2.8	33
27	Comparison of nanofluidic and ultra-high performance liquid chromatography-tandem mass spectrometry for high sensitive pharmacokinetic studies of estrogens starting from whole blood microsampling. <i>Journal of Chromatography A</i> , 2017, 1524, 160-168.	3.7	11
28	Beyond dried blood spot: Current microsampling techniques in the context of biomedical applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 97, 326-332.	11.4	51
29	Quantitation and biospecific identification of virus-like particles of human papillomavirus by capillary electrophoresis. <i>Talanta</i> , 2017, 175, 325-330.	5.5	10
30	(+)- or (-)-1-(9-fluorenyl)ethyl chloroformate as chiral derivatizing agent: A review. <i>Journal of Chromatography A</i> , 2017, 1513, 1-17.	3.7	21
31	Fully automated electrophoretically mediated microanalysis for CYP1A1 activity monitoring optimized by multivariate approach. <i>Electrophoresis</i> , 2016, 37, 248-255.	2.4	5
32	Capillary electrophoresis method to determine siRNA complexation with cationic liposomes. <i>Electrophoresis</i> , 2016, 37, 2685-2691.	2.4	7
33	Liquid chromatography separation of the chiral prodrug eslicarbazepine acetate and its main metabolites in polar organic mode. Application to their analysis after in vitro metabolism. <i>Journal of Chromatography A</i> , 2016, 1467, 306-311.	3.7	12
34	A micellar electrokinetic chromatography-mass spectrometry approach using in-capillary diastereomeric derivatization for fully automatized chiral analysis of amino acids. <i>Journal of Chromatography A</i> , 2016, 1467, 400-408.	3.7	28
35	Study of intact virus-like particles of human papillomavirus by capillary electrophoresis. <i>Electrophoresis</i> , 2016, 37, 579-586.	2.4	15
36	Analysis of protamine peptides in insulin pharmaceutical formulations by capillary electrophoresis. <i>Journal of Separation Science</i> , 2016, 39, 1189-1194.	2.5	6

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37	Separation of human, bovine, and porcine insulins, three very closely related proteins, by micellar electrokinetic chromatography. <i>Electrophoresis</i> , 2015, 36, 2504-2506.	2.4	8
38	Hepcidin determination in dried blood by microfluidic LC-MS/MS: comparison of DBS and volumetric absorptive microsampling for matrix effect and recovery. <i>Bioanalysis</i> , 2015, 7, 2789-2799.	1.5	27
39	Simultaneous determination of insulin and its analogues in pharmaceutical formulations by micellar electrokinetic chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 111, 344-350.	2.8	22
40	Development and validation of a liquid chromatographic method for the stability study of a pharmaceutical formulation containing voriconazole using cellulose tris(4-chloro-3-methylphenylcarbamate) as chiral selector and polar organic mobile phases. <i>Journal of Chromatography A</i> , 2014, 1363, 178-182.	3.7	9
41	In-capillary derivatization with (S)-1-(9-fluorenyl)ethyl chloroformate as chiral labeling agent for the electrophoretic separation of amino acids. <i>Journal of Chromatography A</i> , 2014, 1363, 338-347.	3.7	19
42	Combination of capillary electrophoresis, molecular modelling and nuclear magnetic resonance to study the interaction mechanisms between single-isomer anionic cyclodextrin derivatives and basic drug enantiomers in a methanolic background electrolyte. <i>Journal of Chromatography A</i> , 2012, 1232, 59-64.	3.7	41
43	Generic systems for the enantioseparation of basic drugs in NACE using single-isomer anionic CDs. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011, 54, 154-159.	2.8	25
44	Influence of the BGE composition on analyte response in CD-mediated NACE-MS. <i>Electrophoresis</i> , 2010, 31, 1157-1161.	2.4	47
45	Association of two single-isomer anionic CD in NACE for the chiral and achiral separation of fenbendazole, its sulphoxide and sulphone metabolites: Application to their determination after in vitro metabolism. <i>Electrophoresis</i> , 2010, 31, 1482-1487.	2.4	16
46	Separation of propranolol enantiomers by CE using sulfated $\beta$ -CD derivatives in aqueous and non-aqueous electrolytes: Comparative CE and NMR study. <i>Electrophoresis</i> , 2010, 31, 1467-1474.	2.4	33
47	Capillary electrophoretic and nuclear magnetic resonance studies on the opposite affinity pattern of propranolol enantiomers towards various cyclodextrins. <i>Journal of Separation Science</i> , 2010, 33, 1617-1624.	2.5	52
48	Development and validation of a nonaqueous capillary electrophoretic method for the enantiomeric purity determination of a synthetic intermediate of new 3,4-dihydro-2,2-dimethyl-2H-1-benzopyrans using a single-isomer anionic cyclodextrin derivative and an ionic liquid. <i>Journal of Chromatography A</i> , 2010, 1217, 7949-7955.	3.7	33
49	Effect of the nature of the single-isomer anionic CD and the BGE composition on the enantiomeric separation of $\beta$ -blockers in NACE. <i>Electrophoresis</i> , 2009, 30, 2862-2868.	2.4	20
50	Determination of flurbiprofen enantiomers in plasma using a single-isomer amino cyclodextrin derivative in nonaqueous capillary electrophoresis. <i>Electrophoresis</i> , 2008, 29, 3641-3648.	2.4	24
51	Nonaqueous capillary electrophoresis method for the enantiomeric purity determination of S-timolol using heptakis(2,3-di-O-methyl-6-O-sulfo)- $\beta$ -cyclodextrin: Validation using the accuracy profile strategy and estimation of uncertainty. <i>Journal of Chromatography A</i> , 2006, 1120, 102-111.	3.7	47
52	On-line coupling of cyclodextrin mediated nonaqueous capillary electrophoresis to mass spectrometry for the determination of salbutamol enantiomers in urine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006, 40, 752-757.	2.8	46
53	Enantiomeric separation of acidic compounds using single-isomer amino cyclodextrin derivatives in nonaqueous capillary electrophoresis. <i>Electrophoresis</i> , 2006, 27, 3434-3442.	2.4	31
54	Interlaboratory study of a NACE method for the determination of R-timolol content in S-timolol maleate: Assessment of uncertainty. <i>Electrophoresis</i> , 2006, 27, 2386-2399.	2.4	22

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55	Capillary electrophoresis-mass spectrometry, an attractive tool for drug bioanalysis and biomarker discovery. <i>Electrophoresis</i> , 2006, 27, 2616-2629.	2.4	75
56	Influence of the nature of the electrolyte on the chiral separation of basic compounds in nonaqueous capillary electrophoresis using heptakis(2,3-di-O-methyl-6-O-sulfo)- $\beta$ -cyclodextrin. <i>Journal of Chromatography A</i> , 2005, 1068, 143-150.	3.7	38
57	Determination of salbutamol enantiomers in human urine using heptakis(2,3-di-O-acetyl-6-O-sulfo)- $\beta$ -cyclodextrin in nonaqueous capillary electrophoresis. <i>Electrophoresis</i> , 2004, 25, 1632-1640.	2.4	28
58	Enantiomeric separation of basic compounds using heptakis(2,3-di-O-methyl-6-O-sulfo)- $\beta$ -cyclodextrin in combination with potassium camphorsulfonate in nonaqueous capillary electrophoresis: Optimization by means of an experimental design. <i>Electrophoresis</i> , 2004, 25, 2701-2710.	2.4	51
59	Synergistic effects of ion-pairing in the enantiomeric separation of basic compounds with cyclodextrin derivatives in nonaqueous capillary electrophoresis. <i>Electrophoresis</i> , 2003, 24, 363-369.	2.4	36
60	Optimization of the separation of $\beta$ -blockers by ion-pair capillary electrophoresis in non-aqueous media using univariate and multivariate approaches. <i>Journal of Separation Science</i> , 2002, 25, 1087-1095.	2.5	30