# Anne-Catherine Servais

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Capillary electrophoresis-mass spectrometry, an attractive tool for drug bioanalysis and biomarker discovery. Electrophoresis, 2006, 27, 2616-2629. | 2.4 | 75 |
| 2 | Capillary electrophoretic and nuclear magnetic resonance studies on the opposite affinity pattern of propranolol enantiomers towards various cyclodextrins. Journal of Separation Science, 2010, 33, 1617-1624. | 2.5 | 52 |
| 3 | Enantiomeric separation of basic compounds using heptakis(2,3-di-O-methyl-6-O-sulfo)-Î²-cyclodextrin in combination with potassium camphorsulfonate in nonaqueous capillary electrophoresis: Optimization by means of an experimental design. Electrophoresis, 2004, 25, 2701-2710. | 2.4 | 51 |
| 4 | Beyond dried blood spot: Current microsampling techniques in the context of biomedical applications. TrAC - Trends in Analytical Chemistry, 2017, 97, 326-332. | 11.4 | 51 |
| 5 | Nonaqueous capillary electrophoresis method for the enantiomeric purity determination of S-timolol using heptakis(2,3-di-O-methyl-6-O-sulfo)-Î²-cyclodextrin: Validation using the accuracy profile strategy and estimation of uncertainty. Journal of Chromatography A, 2006, 1120, 102-111. | 3.7 | 47 |
| 6 | Influence of the BGE composition on analyte response in CD-mediated NACE-MS. Electrophoresis, 2010, 31, 1157-1161. | 2.4 | 47 |
| 7 | On-line coupling of cyclodextrin mediated nonaqueous capillary electrophoresis to mass spectrometry for the determination of salbutamol enantiomers in urine. Journal of Pharmaceutical and Biomedical Analysis, 2006, 40, 752-757. | 2.8 | 46 |
| 8 | Capillary Electrophoresis-Mass Spectrometry at Trial by Metabo-Ring: Effective Electrophoretic Mobility for Reproducible and Robust Compound Annotation. Analytical Chemistry, 2020, 92, 14103-14112. | 6.5 | 44 |
| 9 | 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. Journal of Chromatography A, 2012, 1232, 59-64. | 3.7 | 41 |
| 10 | 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)-Î²-cyclodextrin. Journal of Chromatography A, 2005, 1068, 143-150. | 3.7 | 38 |
| 11 | Synergistic effects of ion-pairing in the enantiomeric separation of basic compounds with cyclodextrin derivatives in nonaqueous capillary electrophoresis. Electrophoresis, 2003, 24, 363-369. | 2.4 | 36 |
| 12 | Separation of propranolol enantiomers by CE using sulfated Î²â€CD derivatives in aqueous and nonâ€aqueous electrolytes: Comparative CE and NMR study. Electrophoresis, 2010, 31, 1467-1474. | 2.4 | 33 |
| 13 | 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. Journal of Chromatography A, 2010, 1217, 7949-7955. | 3.7 | 33 |
| 14 | Whole blood microsampling for the quantitation of estetrol without derivatization by liquid chromatography-tandem mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2017, 140, 258-265. | 2.8 | 33 |
| 15 | Enantiomeric separation of acidic compounds using single-isomer amino cyclodextrin derivatives in nonaqueous capillary electrophoresis. Electrophoresis, 2006, 27, 3434-3442. | 2.4 | 31 |
| 16 | Optimization of the separation of Î²-blockers by ion-pair capillary electrophoresis in non-aqueous media using univariate and multivariate approaches. Journal of Separation Science, 2002, 25, 1087-1095. | 2.5 | 30 |
| 17 | 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. Journal of Chromatography A, 2020, 1614, 460716. | 3.7 | 30 |
| 18 | Determination of salbutamol enantiomers in human urine using heptakis(2,3-di-O-acetyl-6-O-sulfo)-Î²-cyclodextrin in nonaqueous capillary electrophoresis. Electrophoresis, 2004, 25, 1632-1640. | 2.4 | 28 |

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|---|---|---|---|
| 19 | A micellar electrokinetic chromatographyâ€“mass spectrometry approach using in-capillary diastereomeric derivatization for fully automatized chiral analysis of amino acids. Journal of Chromatography A, 2016, 1467, 400-408. | 3.7 | 28 |
| 20 | Capillary electrophoresis in the context of drug discovery. Journal of Pharmaceutical and Biomedical Analysis, 2017, 144, 195-212. | 2.8 | 28 |
| 21 | Hepcidin determination in dried blood by microfluidic LCâ€“MS/MS: comparison of DBS and volumetric absorptive microsampling for matrix effect and recovery. Bioanalysis, 2015, 7, 2789-2799. | 1.5 | 27 |
| 22 | Generic systems for the enantioseparation of basic drugs in NACE using single-isomer anionic CDs. Journal of Pharmaceutical and Biomedical Analysis, 2011, 54, 154-159. | 2.8 | 25 |
| 23 | Determination of flurbiprofen enantiomers in plasma using a singleâ€isomer amino cyclodextrin derivative in nonaqueous capillary electrophoresis. Electrophoresis, 2008, 29, 3641-3648. | 2.4 | 24 |
| 24 | Targeted proteomics reveals serum amyloid A variants and alarmins S100A8-S100A9 as key plasma biomarkers of rheumatoid arthritis. Talanta, 2019, 204, 507-517. | 5.5 | 24 |
| 25 | Interlaboratory study of a NACE method for the determination ofR-timolol content inS-timolol maleate: Assessment of uncertainty. Electrophoresis, 2006, 27, 2386-2399. | 2.4 | 22 |
| 26 | Simultaneous determination of insulin and its analogues in pharmaceutical formulations by micellar electrokinetic chromatography. Journal of Pharmaceutical and Biomedical Analysis, 2015, 111, 344-350. | 2.8 | 22 |
| 27 | (+) or (â^')-1-(9-fluorenyl)ethyl chloroformate as chiral derivatizing agent: A review. Journal of Chromatography A, 2017, 1513, 1-17. | 3.7 | 21 |
| 28 | Effect of the nature of the singleâ€isomer anionic CD and the BGE composition on the enantiomeric separation of Î²â€blockers in NACE. Electrophoresis, 2009, 30, 2862-2868. | 2.4 | 20 |
| 29 | In-capillary derivatization with (â^')-1-(9-fluorenyl)ethyl chloroformate as chiral labeling agent for the electrophoretic separation of amino acids. Journal of Chromatography A, 2014, 1363, 338-347. | 3.7 | 19 |
| 30 | Highly sensitive and selective separation of intact parathyroid hormone and variants by sheathless CEâ€ESIâ€MS/MS. Electrophoresis, 2019, 40, 1550-1557. | 2.4 | 18 |
| 31 | Selectivity evaluation of phenyl based stationary phases for the analysis of amino acid diastereomers by liquid chromatography coupled with mass spectrometry. Journal of Chromatography A, 2019, 1590, 80-87. | 3.7 | 17 |
| 32 | Association of two singleâ€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. Electrophoresis, 2010, 31, 1482-1487. | 2.4 | 16 |
| 33 | Capillary electrophoresis-mass spectrometry of derivatized amino acids for targeted neurometabolomics â€“ pH mediated reversal of diastereomer migration order. Journal of Chromatography A, 2018, 1564, 199-206. | 3.7 | 16 |
| 34 | Benefits of microsampling and microextraction for metabolomics studies. TrAC - Trends in Analytical Chemistry, 2020, 127, 115899. | 11.4 | 16 |
| 35 | Study of intact virusâ€like particles of human papillomavirus by capillary electrophoresis. Electrophoresis, 2016, 37, 579-586. | 2.4 | 15 |
| 36 | Production and characterization of virus-like particles of grapevine fanleaf virus presenting L2 epitope of human papillomavirus minor capsid protein. BMC Biotechnology, 2019, 19, 81. | 3.3 | 15 |

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|---|---|---|---|
| 37 | Hyphenation of capillary zone electrophoresis with mass spectrometry for proteomic analysis: Optimization and comparison of two coupling interfaces. Journal of Chromatography A, 2020, 1618, 460873. | 3.7 | 14 |
| 38 | Enhancing protein discoverability by data independent acquisition assisted by ion mobility mass spectrometry. Talanta, 2020, 213, 120812. | 5.5 | 13 |
| 39 | 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. Journal of Chromatography A, 2016, 1467, 306-311. | 3.7 | 12 |
| 40 | Analytical techniques currently used in the pharmaceutical industry for the quality control of RNA-based therapeutics and ongoing developments. Journal of Chromatography A, 2021, 1651, 462283. | 3.7 | 12 |
| 41 | Comparison of nanofluidic and ultra-high performance liquid chromatography-tandem mass spectrometry for high sensitive pharmacokinetic studies of estrogens starting from whole blood microsampling. Journal of Chromatography A, 2017, 1524, 160-168. | 3.7 | 11 |
| 42 | Separation and determination of alphaâ€synuclein monomeric and oligomeric species using two electrophoretic approaches. Electrophoresis, 2018, 39, 3022-3031. | 2.4 | 11 |
| 43 | Determination of iohexol by capillary blood microsampling and UHPLC-MS/MS. Journal of Pharmaceutical Analysis, 2019, 9, 259-265. | 5.3 | 11 |
| 44 | Single and dual cyclodextrins systems for the enantiomeric and diastereoisomeric separations of structurally related dihydropyridone analogues. Electrophoresis, 2017, 38, 1922-1931. | 2.4 | 10 |
| 45 | Quantitation and biospecific identification of virus-like particles of human papillomavirus by capillary electrophoresis. Talanta, 2017, 175, 325-330. | 5.5 | 10 |
| 46 | Capillary electrophoresis, highâ€performance liquid chromatography, and thinâ€layer chromatography analyses of phenolic compounds from rapeseed plants and evaluation of their antioxidant activity. Journal of Separation Science, 2019, 42, 609-618. | 2.5 | 10 |
| 47 | 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. Journal of Chromatography A, 2014, 1363, 178-182. | 3.7 | 9 |
| 48 | Separation of human, bovine, and porcine insulins, three very closely related proteins, by micellar electrokinetic chromatography. Electrophoresis, 2015, 36, 2504-2506. | 2.4 | 8 |
| 49 | Blood Microsampling to Monitor Metabolic Profiles During Physical Exercise. Frontiers in Molecular Biosciences, 2021, 8, 681400. | 3.5 | 8 |
| 50 | Capillary electrophoresis method to determine siRNA complexation with cationic liposomes. Electrophoresis, 2016, 37, 2685-2691. | 2.4 | 7 |
| 51 | Ultra-high-performance liquid chromatography-mass spectrometry method for neutrophil gelatinase-associated lipocalin as a predictive biomarker in acute kidney injury. Talanta, 2019, 195, 668-675. | 5.5 | 7 |
| 52 | Analysis of protamine peptides in insulin pharmaceutical formulations by capillary electrophoresis. Journal of Separation Science, 2016, 39, 1189-1194. | 2.5 | 6 |
| 53 | Development of a sensitive MEKCâ€LIF method for synthetic cathinones analysis. Electrophoresis, 2021, 42, 1127-1134. | 2.4 | 6 |
| 54 | Fully automated electrophoretically mediated microanalysis for CYP1A1 activity monitoring optimized by multivariate approach. Electrophoresis, 2016, 37, 248-255. | 2.4 | 5 |

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|---|---|---|---|
| 55 | Stability of 90 mg/mL cefuroxime sodium solution for administration by continuous infusion. Journal of Chemotherapy, 2018, 30, 371-374. | 1.5 | 5 |
| 56 | Improvement of chemo- and stereoselectivity for phosphorothioate oligonucleotides in capillary electrophoresis by addition of cyclodextrins. Journal of Chromatography A, 2022, 1676, 463270. | 3.7 | 4 |
| 57 | Application of Dual-Cyclodextrin Systems in Capillary Electrophoresis Enantioseparations. Methods in Molecular Biology, 2019, 1985, 357-364. | 0.9 | 3 |
| 58 | Enantioseparations in Nonaqueous Capillary Electrophoresis Using Charged Cyclodextrins. Methods in Molecular Biology, 2019, 1985, 373-381. | 0.9 | 2 |
| 59 | Comparison of Three Complementary Analytical Techniques for the Evaluation of the Biosimilar Comparability of a Monoclonal Antibody and an Fc-Fusion Protein. Frontiers in Chemistry, 2021, 9, 782099. | 3.6 | 0 |
| 60 | Qualitative and quantitative comparison of different commercially available 1â€“84 parathyroid hormone proteins to the WHO international standard 95/646 using orthogonal methods. Journal of Pharmaceutical and Biomedical Analysis, 2022, 219, 114942. | 2.8 | 0 |