## Deirdre Cabooter

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Degradation of sulfamethoxazole by ferrous iron activated peroxymonosulfate: Elucidation of the degradation mechanism and influence of process parameters. Chemical Engineering Journal, 2022, 430, 132875.	12.7	18
2	Taylor-Aris methodology for the experimental determination of molecular diffusion coefficients: Tutorial with focus on large biomolecules. Journal of Chromatography A, 2022, 1664, 462787.	3.7	5
3	Convolutional neural network for automated peak detection in reversed-phase liquid chromatography. Journal of Chromatography A, 2022, 1672, 463005.	3.7	8
4	Kinetics and mechanisms of the carbamazepine degradation in aqueous media using novel iodate-assisted photochemical and photocatalytic systems. Science of the Total Environment, 2022, 825, 153871.	8.0	24
5	Review of recent insights in the measurement and modelling of the B-term dispersion and related mass transfer properties in liquid chromatography. Analytica Chimica Acta, 2022, 1214, 339955.	5.4	8
6	Electrochemical Advanced Oxidation of Carbamazepine: Mechanism and optimal operating conditions. Chemical Engineering Journal, 2022, 446, 137114.	12.7	18
7	UV/TiO2/periodate system for the degradation of organic pollutants – Kinetics, mechanisms and toxicity study. Chemical Engineering Journal, 2022, 449, 137680.	12.7	34
8	Efficient reduction of carbamazepine using UV-activated sulfite: Assessment of critical process parameters and elucidation of radicals involved. Chemical Engineering Journal, 2021, 404, 126403.	12.7	28
9	Local immune response to food antigens drives meal-induced abdominal pain. Nature, 2021, 590, 151-156.	27.8	153
10	Measurement and modelling of the intra-particle diffusion and b-term in reversed-phase liquid chromatography. Journal of Chromatography A, 2021, 1637, 461852.	3.7	22
11	Deep Q-learning for the selection of optimal isocratic scouting runs in liquid chromatography. Journal of Chromatography A, 2021, 1638, 461900.	3.7	10
12	Special issue JCA HTC-16. Journal of Chromatography A, 2021, 1642, 462020.	3.7	0
13	Degradation of ciprofloxacin using UV-based advanced removal processes: Comparison of persulfate-based advanced oxidation and sulfite-based advanced reduction processes. Science of the Total Environment, 2021, 764, 144510.	8.0	80
14	Efficacy of Fenfluramine and Norfenfluramine Enantiomers and Various Antiepileptic Drugs in a Zebrafish Model of Dravet Syndrome. Neurochemical Research, 2021, 46, 2249-2261.	3.3	14
15	Pilot-scale evaluation of ozone as a polishing step for the removal of nonylphenol from tank truck cleaning wastewater. Journal of Environmental Management, 2021, 288, 112396.	7.8	3
16	Spatiotemporal imaging and pharmacokinetics of fluorescent compounds in zebrafish eleuthero-embryos after different routes of administration. Scientific Reports, 2021, 11, 12229.	3.3	11
17	Deep convolutional autoencoder for the simultaneous removal of baseline noise and baseline drift in chromatography A, 2021, 1646, 462093.	3.7	18
18	Efficiency and mechanism of 2,4-dichlorophenol degradation by the UV/IO4â^ process. Science of the Total Environment, 2021, 782, 146781.	8.0	44

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19	Role of process parameters in the degradation of sulfamethoxazole by heat-activated peroxymonosulfate oxidation: Radical identification and elucidation of the degradation mechanism. Chemical Engineering Journal, 2021, 422, 130457.	12.7	77
20	Detailed numerical analysis of the effect of radial column heterogeneities on peak parking experiments with slowly diffusing analytes. Journal of Chromatography A, 2021, 1656, 462557.	3.7	4
21	A systematic investigation of the effect of sample solvent on peak shape in nano- and microflow hydrophilic interaction liquid chromatography columns. Journal of Chromatography A, 2021, 1655, 462498.	3.7	6
22	Removal of sulfamethoxazole by ferrous iron activation of persulfate: Optimization of dosing strategy and degradation mechanism. Science of the Total Environment, 2021, 799, 149159.	8.0	9
23	Graph Convolutional Networks for Improved Prediction and Interpretability of Chromatographic Retention Data. Analytical Chemistry, 2021, 93, 15633-15641.	6.5	18
24	Degradation of sulfamethoxazole by heat-activated persulfate oxidation: Elucidation of the degradation mechanism and influence of process parameters. Chemical Engineering Journal, 2020, 379, 122234.	12.7	84
25	Development of a HILIC-MS/MS method for the quantification of histamine and its main metabolites in human urine samples. Talanta, 2020, 220, 121328.	5.5	21
26	A Methodology for the Estimation and Modelling of the Obstruction Factor in the Expression for Mesopore Diffusion in Reversed-Phase Liquid Chromatography Particles. Journal of Chromatography A, 2020, 1625, 461285.	3.7	6
27	Effect of ozonation as pre-treatment and polishing step on removal of ecotoxicity and alkylphenol ethoxylates from tank truck cleaning wastewater. Journal of Water Process Engineering, 2020, 37, 101441.	5.6	6
28	Experimental investigation of the retention factor dependency of eddy dispersion in packed bed columns and relation to knox's empirical model parameters. Journal of Chromatography A, 2020, 1626, 461339.	3.7	11
29	Predicting Residual Adsorbable Organic Halides Concentrations in Industrial Wastewater Using Typical Wastewater Parameters. Water (Switzerland), 2020, 12, 1653.	2.7	4
30	Current developments in LC-MS for pharmaceutical analysis. Analyst, The, 2020, 145, 1129-1157.	3.5	124
31	Efficiency and mechanism of diclofenac degradation by sulfite/UV advanced reduction processes (ARPs). Science of the Total Environment, 2019, 688, 65-74.	8.0	62
32	Safety Assessment of Compounds after In Vitro Metabolic Conversion Using Zebrafish Eleuthero Embryos. International Journal of Molecular Sciences, 2019, 20, 1712.	4.1	9
33	Fast liquid chromatography-tandem mass spectrometry methodology for the analysis of alkylphenols and their ethoxylates in wastewater samples from the tank truck cleaning industry. Analytical and Bioanalytical Chemistry, 2019, 411, 1611-1621.	3.7	8
34	High-Resolution MS and MSn Investigation of UV Oxidation Products of Phenazone-type Pharmaceuticals and Metabolites. Chromatographia, 2019, 82, 261-269.	1.3	9
35	Development of a sensitive and quantitative capillary LC-UV method to study the uptake of pharmaceuticals in zebrafish brain. Analytical and Bioanalytical Chemistry, 2018, 410, 2751-2764.	3.7	5
36	Elongator subunit 3 (ELP3) modifies ALS through tRNA modification. Human Molecular Genetics, 2018, 27, 1276-1289.	2.9	56

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37	Methodologies to determine b-term coefficients revisited. Journal of Chromatography A, 2018, 1532, 124-135.	3.7	18
38	Electrochemical oxidation of key pharmaceuticals using a boron doped diamond electrode. Separation and Purification Technology, 2018, 195, 184-191.	7.9	98
39	Effects of process variables and kinetics on the degradation of 2,4-dichlorophenol using advanced reduction processes (ARP). Journal of Hazardous Materials, 2018, 357, 81-88.	12.4	65
40	Atmospheric Pressure Ionization Using a High Voltage Target Compared to Electrospray Ionization. Journal of the American Society for Mass Spectrometry, 2017, 28, 286-293.	2.8	17
41	An atmospheric pressure ionization source using a high voltage target compared to electrospray ionization for the LC/MS analysis of pharmaceutical compounds. Journal of Pharmaceutical and Biomedical Analysis, 2017, 142, 225-231.	2.8	15
42	Restriction capillaries as an innovative mixing unit for intermediate mobile phase exchange in multidimensional analysis. Journal of Chromatography A, 2017, 1497, 70-80.	3.7	7
43	Flexible nano- and microliter injections on a single liquid chromatography–mass spectrometry system: Minimizing sample preparation and maximizing linear dynamic range. Journal of Chromatography A, 2017, 1524, 101-107.	3.7	4
44	Development of a sensitive and quantitative UHPLC-MS/MS method to study the whole-body uptake of pharmaceuticals in zebrafish. Talanta, 2017, 174, 780-788.	5.5	11
45	Assessment of intra-particle diffusion in hydrophilic interaction liquid chromatography and reversed-phase liquid chromatography under conditions of identical packing structure. Journal of Chromatography A, 2017, 1523, 204-214.	3.7	10
46	Relevance and Assessment of Molecular Diffusion Coefficients in Liquid Chromatography. Chromatographia, 2017, 80, 651-663.	1.3	6
47	A sensitive capillary LC-UV method for the simultaneous analysis of olanzapine, chlorpromazine and their FMO-mediated N-oxidation products in brain microdialysates. Talanta, 2017, 162, 268-277.	5.5	16
48	Cell Imaging Counting as a Novel Ex Vivo Approach for Investigating Drug-Induced Hepatotoxicity in Zebrafish Larvae. International Journal of Molecular Sciences, 2017, 18, 356.	4.1	12
49	Extensive database of liquid phase diffusion coefficients of some frequently used test molecules in reversed-phase liquid chromatography and hydrophilic interaction liquid chromatography. Journal of Chromatography A, 2016, 1455, 102-112.	3.7	35
50	Rationale behind the optimum efficiency of columns packed with new 1.9μm fully porous particles of narrow particle size distribution. Journal of Chromatography A, 2016, 1454, 78-85.	3.7	49
51	Quantitative mass spectrometry methods for pharmaceutical analysis. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150366.	3.4	54
52	Enhanced performance for the analysis of prostaglandins and thromboxanes by liquid chromatography-tandem mass spectrometry using a new atmospheric pressure ionization source. Journal of Chromatography A, 2016, 1440, 260-265.	3.7	25
53	Separation of Co(II)/Ni(II) with Cyanex 272 using a flat membrane microcontactor: Extraction kinetics study. Journal of Membrane Science, 2016, 499, 370-378.	8.2	10
54	One drop chemical derivatization – DESIâ€MS analysis for metabolite structure identification. Journal of Mass Spectrometry, 2015, 50, 871-878.	1.6	6

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55	Graphical Data Representation Methods To Assess the Quality of LC Columns. Analytical Chemistry, 2015, 87, 8593-8602.	6.5	39
56	Recent advances in the application of hydrophilic interaction chromatography for the analysis of biological matrices. Bioanalysis, 2015, 7, 2927-2945.	1.5	20
57	Evaluation of the Kinetic Performance Differences between Hydrophilic-Interaction Liquid Chromatography and Reversed-Phase Liquid Chromatography under Conditions of Identical Packing Structure. Analytical Chemistry, 2015, 87, 12331-12339.	6.5	24
58	Exploring the possibilities of capacitively coupled contactless conductivity detection in combination with liquid chromatography for the analysis of polar compounds using aminoglycosides as test case. Journal of Pharmaceutical and Biomedical Analysis, 2015, 112, 155-168.	2.8	11
59	High-resolution MS and MSn investigation of ozone oxidation products from phenazone-type pharmaceuticals and metabolites. Chemosphere, 2015, 136, 32-41.	8.2	32
60	Development and validation of a stability indicating method for S-carboxymethyl-l-cysteine and related degradation products in oral syrup formulation. Journal of Pharmaceutical and Biomedical Analysis, 2015, 115, 39-47.	2.8	7
61	Development and validation of LC methods for the separation of misoprostol related substances and diastereoisomers. Journal of Pharmaceutical and Biomedical Analysis, 2015, 111, 91-99.	2.8	5
62	Development of liquid chromatography methods coupled to mass spectrometry for the analysis of substances with a wide variety of polarity in meconium. Talanta, 2015, 138, 231-239.	5.5	6
63	An Overview of the Use of Microchips in Electrophoretic Separation Techniques: Fabrication, Separation Modes, Sample Preparation Opportunities, and On-Chip Detection. Methods in Molecular Biology, 2015, 1274, 3-17.	0.9	3
64	Towards a generic variable column length method development strategy for samples with a large variety in polarity. Journal of Chromatography A, 2014, 1372, 174-186.	3.7	11
65	Evaluation and comparison of the kinetic performance of ultra-high performance liquid chromatography and high-performance liquid chromatography columns in hydrophilic interaction and reversed-phase liquid chromatography conditions. Journal of Chromatography A, 2014, 1369, 83-91.	3.7	28
66	Enhanced selectivity and search speed for method development using one-segment-per-component optimization strategies. Journal of Chromatography A, 2014, 1358, 145-154.	3.7	13
67	Experimental and numerical validation of the effective medium theory for the B-term band broadening in 1st and 2nd generation monolithic silica columns. Journal of Chromatography A, 2014, 1351, 46-55.	3.7	11
68	Detailed characterization of the kinetic performance of first and second generation silica monolithic columns for reversed-phase chromatography separations. Journal of Chromatography A, 2014, 1325, 72-82.	3.7	37
69	Kinetic performance comparison of fully and superficially porous particles with a particle size of 5 µm: Intrinsic evaluation and application to the impurity analysis of griseofulvin. Talanta, 2014, 122, 122-129.	5.5	20
70	Hydrophilic interaction chromatography (HILIC) in the analysis of antibiotics. Journal of Pharmaceutical and Biomedical Analysis, 2014, 87, 142-154.	2.8	83
71	Kinetic performance comparison of fully and superficially porous particles with sizes ranging between 2.7 μm and 5 μm: Intrinsic evaluation and application to a pharmaceutical test compound. Journal of Pharmaceutical Analysis, 2013, 3, 313-323.	5.3	39
72	Variable column length method development strategy for amino acid analysis in serum samples of neonates with metabolic disorders. Journal of Chromatography A, 2013, 1292, 229-238.	3.7	5

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73	Isocratic and gradient impedance plot analysis and comparison of some recently introduced large size core–shell and fully porous particles. Journal of Chromatography A, 2013, 1312, 80-86.	3.7	38
74	A membrane microcontactor as a tool for integrated sample preparation. Journal of Separation Science, 2012, 35, 2407-2413.	2.5	3
75	Chapter 1. General Overview of Fast and High-resolution Approaches in Liquid Chromatography. RSC Chromatography Monographs, 2012, , 1-28.	0.1	Ο
76	Kinetic plot based comparison of the efficiency and peak capacity of high-performance liquid chromatography columns: Theoretical background and selected examples. Journal of Chromatography A, 2012, 1228, 20-30.	3.7	49
77	Performance limits and kinetic optimization of parallel and serially connected multi-column systems spanning a wide range of efficiencies for liquid chromatography. Journal of Chromatography A, 2012, 1219, 114-127.	3.7	5
78	Kinetic optimisation of the reversed phase liquid chromatographic separation of proanthocyanidins on sub-21¼m and superficially porous phases. Journal of Chromatography A, 2012, 1236, 63-76.	3.7	18
79	Method development for pharmaceutics: Some solutions for tuning selectivity in reversed phase and hydrophilic interaction liquid chromatography. Journal of Pharmaceutical and Biomedical Analysis, 2012, 63, 95-105.	2.8	33
80	A Variable Column Length Strategy To Expedite Method Development. Analytical Chemistry, 2011, 83, 966-975.	6.5	10
81	Fast method development of rooibos tea phenolics using a variable column length strategy. Journal of Chromatography A, 2011, 1218, 7347-7357.	3.7	10
82	Kinetic performance of reversed-phase C18 high-performance liquid chromatography columns compared by means of the Kinetic Plot Method in pharmaceutically relevant applications. Journal of Chromatography A, 2011, 1218, 3351-3359.	3.7	10
83	High-efficiency high performance liquid chromatographic analysis of red wine anthocyanins. Journal of Chromatography A, 2011, 1218, 4660-4670.	3.7	33
84	Relationship between the particle size distribution of commercial fully porous and superficially porous high-performance liquid chromatography column packings and their chromatographic performance. Journal of Chromatography A, 2010, 1217, 7074-7081.	3.7	94
85	Use of kinetic plots for the optimization of the separation time in ultraâ€highâ€pressure LC. Journal of Separation Science, 2010, 33, 2629-2635.	2.5	20
86	Comparison of performance of highâ€performance liquid chromatography columns packed with superficially and fully porous 2.5 μm particles using kinetic plots. Journal of Separation Science, 2010, 33, 3655-3665.	2.5	34
87	Evaluation of a new polymeric stationary phase with reversed-phase properties for high temperature liquid chromatography. Journal of Chromatography A, 2010, 1217, 3217-3222.	3.7	13
88	The kinetic plot method applied to gradient chromatography: Theoretical framework and experimental validation. Journal of Chromatography A, 2010, 1217, 2787-2795.	3.7	90
89	A study of the parameters affecting the accuracy of the total pore blocking method. Journal of Chromatography A, 2010, 1217, 6754-6761.	3.7	18
90	Automatic Column Coupling System To Operate Chromatographic Supports Closer To Their Kinetic Performance Limit and To Enhance Method Development. Analytical Chemistry, 2010, 82, 1054-1065.	6.5	13

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91	Tryptic digest analysis by comprehensive reversed phase×two reversed phase liquid chromatography (RP‣C×2RP‣C) at different pH's. Journal of Separation Science, 2009, 32, 1137-1144.	2.5	57
92	High performance liquid chromatography analysis of wine anthocyanins revisited: Effect of particle size and temperature. Journal of Chromatography A, 2009, 1216, 3270-3279.	3.7	49
93	Investigation of the validity of the kinetic plot method to predict the performance of coupled column systems operated at very high pressures under different thermal conditions. Journal of Chromatography A, 2009, 1216, 3895-3903.	3.7	52
94	Detailed characterisation of the flow resistance of commercial sub-2μm reversed-phase columns. Journal of Chromatography A, 2008, 1178, 108-117.	3.7	56
95	Errors involved in the existing B-term expressions for the longitudinal diffusion in fully porous chromatographic media. Journal of Chromatography A, 2008, 1188, 189-198.	3.7	35
96	Kinetic plot and particle size distribution analysis to discuss the performance limits of sub-2μm and supra-2̼m particle columns. Journal of Chromatography A, 2008, 1204, 1-10.	3.7	36
97	Kinetic plot method as a tool to design coupled column systems producing 100,000 theoretical plates in the shortest possible time. Journal of Chromatography A, 2008, 1212, 23-34.	3.7	60
98	Turbulence as a Source of Excessive Baseline Noise during High-Speed Isocratic and Gradient Separations Using Absorption Detection. Analytical Chemistry, 2008, 80, 1679-1688.	6.5	8
99	Use of the kinetic plot method to analyze commercial high-temperature liquid chromatography systems. Journal of Chromatography A, 2007, 1143, 121-133.	3.7	42
100	Use of the kinetic plot method to analyze commercial high-temperature liquid chromatography systems. Journal of Chromatography A, 2007, 1146, 193-201.	3.7	20
101	Method to predict and compare the influence of the particle size on the isocratic peak capacity of high-performance liquid chromatography columns. Journal of Chromatography A, 2007, 1147, 183-191.	3.7	34
102	Total pore blocking as an alternative method for the on-column determination of the external porosity of packed and monolithic reversed-phase columns. Journal of Chromatography A, 2007, 1157, 131-141.	3.7	61
103	Practical Constraints in the Kinetic Plot Representation of Chromatographic Performance Data:Â Theory and Application to Experimental Data. Analytical Chemistry, 2006, 78, 2150-2162.	6.5	81
104	Future of high pressure liquid chromatography: Do we need porosity or do we need pressure?. Journal of Chromatography A, 2006, 1130, 158-166.	3.7	50
105	Ultra-rapid separation of an angiotensin mixture in nanochannels using shear-driven chromatography. Journal of Chromatography A, 2006, 1102, 96-103.	3.7	34 _