

Deirdre Cabooter

List of Publications by Year in descending order

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105
papers

3,037
citations

145106

33
h-index

214428

50
g-index

107
all docs

107
docs citations

107
times ranked

2517
citing authors

#	ARTICLE	IF	CITATIONS
1	Degradation of sulfamethoxazole by ferrous iron activated peroxydisulfate: Elucidation of the degradation mechanism and influence of process parameters. <i>Chemical Engineering Journal</i> , 2022, 430, 132875.	6.6	18
2	Taylor-Aris methodology for the experimental determination of molecular diffusion coefficients: Tutorial with focus on large biomolecules. <i>Journal of Chromatography A</i> , 2022, 1664, 462787.	1.8	5
3	Convolutional neural network for automated peak detection in reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 2022, 1672, 463005.	1.8	8
4	Kinetics and mechanisms of the carbamazepine degradation in aqueous media using novel iodate-assisted photochemical and photocatalytic systems. <i>Science of the Total Environment</i> , 2022, 825, 153871.	3.9	24
5	Review of recent insights in the measurement and modelling of the B-term dispersion and related mass transfer properties in liquid chromatography. <i>Analytica Chimica Acta</i> , 2022, 1214, 339955.	2.6	8
6	Electrochemical Advanced Oxidation of Carbamazepine: Mechanism and optimal operating conditions. <i>Chemical Engineering Journal</i> , 2022, 446, 137114.	6.6	18
7	UV/TiO ₂ /periodate system for the degradation of organic pollutants – Kinetics, mechanisms and toxicity study. <i>Chemical Engineering Journal</i> , 2022, 449, 137680.	6.6	34
8	Efficient reduction of carbamazepine using UV-activated sulfite: Assessment of critical process parameters and elucidation of radicals involved. <i>Chemical Engineering Journal</i> , 2021, 404, 126403.	6.6	28
9	Local immune response to food antigens drives meal-induced abdominal pain. <i>Nature</i> , 2021, 590, 151-156.	13.7	153
10	Measurement and modelling of the intra-particle diffusion and b-term in reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 2021, 1637, 461852.	1.8	22
11	Deep Q-learning for the selection of optimal isocratic scouting runs in liquid chromatography. <i>Journal of Chromatography A</i> , 2021, 1638, 461900.	1.8	10
12	Special issue JCA HTC-16. <i>Journal of Chromatography A</i> , 2021, 1642, 462020.	1.8	0
13	Degradation of ciprofloxacin using UV-based advanced removal processes: Comparison of persulfate-based advanced oxidation and sulfite-based advanced reduction processes. <i>Science of the Total Environment</i> , 2021, 764, 144510.	3.9	80
14	Efficacy of Fenfluramine and Norfenfluramine Enantiomers and Various Antiepileptic Drugs in a Zebrafish Model of Dravet Syndrome. <i>Neurochemical Research</i> , 2021, 46, 2249-2261.	1.6	14
15	Pilot-scale evaluation of ozone as a polishing step for the removal of nonylphenol from tank truck cleaning wastewater. <i>Journal of Environmental Management</i> , 2021, 288, 112396.	3.8	3
16	Spatiotemporal imaging and pharmacokinetics of fluorescent compounds in zebrafish leuthero-embryos after different routes of administration. <i>Scientific Reports</i> , 2021, 11, 12229.	1.6	11
17	Deep convolutional autoencoder for the simultaneous removal of baseline noise and baseline drift in chromatograms. <i>Journal of Chromatography A</i> , 2021, 1646, 462093.	1.8	18
18	Efficiency and mechanism of 2,4-dichlorophenol degradation by the UV/H ₂ O ₂ process. <i>Science of the Total Environment</i> , 2021, 782, 146781.	3.9	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. <i>Chemical Engineering Journal</i> , 2021, 422, 130457.	6.6	77
20	Detailed numerical analysis of the effect of radial column heterogeneities on peak parking experiments with slowly diffusing analytes. <i>Journal of Chromatography A</i> , 2021, 1656, 462557.	1.8	4
21	A systematic investigation of the effect of sample solvent on peak shape in nano- and microflow hydrophilic interaction liquid chromatography columns. <i>Journal of Chromatography A</i> , 2021, 1655, 462498.	1.8	6
22	Removal of sulfamethoxazole by ferrous iron activation of persulfate: Optimization of dosing strategy and degradation mechanism. <i>Science of the Total Environment</i> , 2021, 799, 149159.	3.9	9
23	Graph Convolutional Networks for Improved Prediction and Interpretability of Chromatographic Retention Data. <i>Analytical Chemistry</i> , 2021, 93, 15633-15641.	3.2	18
24	Degradation of sulfamethoxazole by heat-activated persulfate oxidation: Elucidation of the degradation mechanism and influence of process parameters. <i>Chemical Engineering Journal</i> , 2020, 379, 122234.	6.6	84
25	Development of a HILIC-MS/MS method for the quantification of histamine and its main metabolites in human urine samples. <i>Talanta</i> , 2020, 220, 121328.	2.9	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. <i>Journal of Chromatography A</i> , 2020, 1625, 461285.	1.8	6
27	Effect of ozonation as pre-treatment and polishing step on removal of ecotoxicity and alkylphenol ethoxylates from tank truck cleaning wastewater. <i>Journal of Water Process Engineering</i> , 2020, 37, 101441.	2.6	6
28	Experimental investigation of the retention factor dependency of eddy dispersion in packed bed columns and relation to Knox's empirical model parameters. <i>Journal of Chromatography A</i> , 2020, 1626, 461339.	1.8	11
29	Predicting Residual Adsorbable Organic Halides Concentrations in Industrial Wastewater Using Typical Wastewater Parameters. <i>Water (Switzerland)</i> , 2020, 12, 1653.	1.2	4
30	Current developments in LC-MS for pharmaceutical analysis. <i>Analyst</i> , 2020, 145, 1129-1157.	1.7	124
31	Efficiency and mechanism of diclofenac degradation by sulfite/UV advanced reduction processes (ARPs). <i>Science of the Total Environment</i> , 2019, 688, 65-74.	3.9	62
32	Safety Assessment of Compounds after In Vitro Metabolic Conversion Using Zebrafish <i>Eleuthero Embryos</i> . <i>International Journal of Molecular Sciences</i> , 2019, 20, 1712.	1.8	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. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 1611-1621.	1.9	8
34	High-Resolution MS and MS ⁿ Investigation of UV Oxidation Products of Phenazone-type Pharmaceuticals and Metabolites. <i>Chromatographia</i> , 2019, 82, 261-269.	0.7	9
35	Development of a sensitive and quantitative capillary LC-UV method to study the uptake of pharmaceuticals in zebrafish brain. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 2751-2764.	1.9	5
36	Elongator subunit 3 (ELP3) modifies ALS through tRNA modification. <i>Human Molecular Genetics</i> , 2018, 27, 1276-1289.	1.4	56

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37	Methodologies to determine b-term coefficients revisited. <i>Journal of Chromatography A</i> , 2018, 1532, 124-135.	1.8	18
38	Electrochemical oxidation of key pharmaceuticals using a boron doped diamond electrode. <i>Separation and Purification Technology</i> , 2018, 195, 184-191.	3.9	98
39	Effects of process variables and kinetics on the degradation of 2,4-dichlorophenol using advanced reduction processes (ARP). <i>Journal of Hazardous Materials</i> , 2018, 357, 81-88.	6.5	65
40	Atmospheric Pressure Ionization Using a High Voltage Target Compared to Electrospray Ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 286-293.	1.2	17
41	An atmospheric pressure ionization source using a high voltage target compared to electrospray ionization for the LC/MS analysis of pharmaceutical compounds. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 142, 225-231.	1.4	15
42	Restriction capillaries as an innovative mixing unit for intermediate mobile phase exchange in multidimensional analysis. <i>Journal of Chromatography A</i> , 2017, 1497, 70-80.	1.8	7
43	Flexible nano- and microliter injections on a single liquid chromatography–mass spectrometry system: Minimizing sample preparation and maximizing linear dynamic range. <i>Journal of Chromatography A</i> , 2017, 1524, 101-107.	1.8	4
44	Development of a sensitive and quantitative UHPLC-MS/MS method to study the whole-body uptake of pharmaceuticals in zebrafish. <i>Talanta</i> , 2017, 174, 780-788.	2.9	11
45	Assessment of intra-particle diffusion in hydrophilic interaction liquid chromatography and reversed-phase liquid chromatography under conditions of identical packing structure. <i>Journal of Chromatography A</i> , 2017, 1523, 204-214.	1.8	10
46	Relevance and Assessment of Molecular Diffusion Coefficients in Liquid Chromatography. <i>Chromatographia</i> , 2017, 80, 651-663.	0.7	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. <i>Talanta</i> , 2017, 162, 268-277.	2.9	16
48	Cell Imaging Counting as a Novel Ex Vivo Approach for Investigating Drug-Induced Hepatotoxicity in Zebrafish Larvae. <i>International Journal of Molecular Sciences</i> , 2017, 18, 356.	1.8	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. <i>Journal of Chromatography A</i> , 2016, 1455, 102-112.	1.8	35
50	Rationale behind the optimum efficiency of columns packed with new 1.9 μ m fully porous particles of narrow particle size distribution. <i>Journal of Chromatography A</i> , 2016, 1454, 78-85.	1.8	49
51	Quantitative mass spectrometry methods for pharmaceutical analysis. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150366.	1.6	54
52	Enhanced performance for the analysis of prostaglandins and thromboxanes by liquid chromatography-tandem mass spectrometry using a new atmospheric pressure ionization source. <i>Journal of Chromatography A</i> , 2016, 1440, 260-265.	1.8	25
53	Separation of Co(II)/Ni(II) with Cyanex 272 using a flat membrane microcontactor: Extraction kinetics study. <i>Journal of Membrane Science</i> , 2016, 499, 370-378.	4.1	10
54	One drop chemical derivatization – DESI–MS analysis for metabolite structure identification. <i>Journal of Mass Spectrometry</i> , 2015, 50, 871-878.	0.7	6

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55	Graphical Data Representation Methods To Assess the Quality of LC Columns. <i>Analytical Chemistry</i> , 2015, 87, 8593-8602.	3.2	39
56	Recent advances in the application of hydrophilic interaction chromatography for the analysis of biological matrices. <i>Bioanalysis</i> , 2015, 7, 2927-2945.	0.6	20
57	Evaluation of the Kinetic Performance Differences between Hydrophilic-Interaction Liquid Chromatography and Reversed-Phase Liquid Chromatography under Conditions of Identical Packing Structure. <i>Analytical Chemistry</i> , 2015, 87, 12331-12339.	3.2	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. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 112, 155-168.	1.4	11
59	High-resolution MS and MSn investigation of ozone oxidation products from phenazone-type pharmaceuticals and metabolites. <i>Chemosphere</i> , 2015, 136, 32-41.	4.2	32
60	Development and validation of a stability indicating method for S-carboxymethyl-L-cysteine and related degradation products in oral syrup formulation. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 115, 39-47.	1.4	7
61	Development and validation of LC methods for the separation of misoprostol related substances and diastereoisomers. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 111, 91-99.	1.4	5
62	Development of liquid chromatography methods coupled to mass spectrometry for the analysis of substances with a wide variety of polarity in meconium. <i>Talanta</i> , 2015, 138, 231-239.	2.9	6
63	An Overview of the Use of Microchips in Electrophoretic Separation Techniques: Fabrication, Separation Modes, Sample Preparation Opportunities, and On-Chip Detection. <i>Methods in Molecular Biology</i> , 2015, 1274, 3-17.	0.4	3
64	Towards a generic variable column length method development strategy for samples with a large variety in polarity. <i>Journal of Chromatography A</i> , 2014, 1372, 174-186.	1.8	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. <i>Journal of Chromatography A</i> , 2014, 1369, 83-91.	1.8	28
66	Enhanced selectivity and search speed for method development using one-segment-per-component optimization strategies. <i>Journal of Chromatography A</i> , 2014, 1358, 145-154.	1.8	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. <i>Journal of Chromatography A</i> , 2014, 1351, 46-55.	1.8	11
68	Detailed characterization of the kinetic performance of first and second generation silica monolithic columns for reversed-phase chromatography separations. <i>Journal of Chromatography A</i> , 2014, 1325, 72-82.	1.8	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. <i>Talanta</i> , 2014, 122, 122-129.	2.9	20
70	Hydrophilic interaction chromatography (HILIC) in the analysis of antibiotics. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 87, 142-154.	1.4	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. <i>Journal of Pharmaceutical Analysis</i> , 2013, 3, 313-323.	2.4	39
72	Variable column length method development strategy for amino acid analysis in serum samples of neonates with metabolic disorders. <i>Journal of Chromatography A</i> , 2013, 1292, 229-238.	1.8	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. <i>Journal of Chromatography A</i> , 2013, 1312, 80-86.	1.8	38
74	A membrane microcontactor as a tool for integrated sample preparation. <i>Journal of Separation Science</i> , 2012, 35, 2407-2413.	1.3	3
75	Chapter 1. General Overview of Fast and High-resolution Approaches in Liquid Chromatography. <i>RSC Chromatography Monographs</i> , 2012, , 1-28.	0.1	0
76	Kinetic plot based comparison of the efficiency and peak capacity of high-performance liquid chromatography columns: Theoretical background and selected examples. <i>Journal of Chromatography A</i> , 2012, 1228, 20-30.	1.8	49
77	Performance limits and kinetic optimization of parallel and serially connected multi-column systems spanning a wide range of efficiencies for liquid chromatography. <i>Journal of Chromatography A</i> , 2012, 1219, 114-127.	1.8	5
78	Kinetic optimisation of the reversed phase liquid chromatographic separation of proanthocyanidins on sub-2 μ m and superficially porous phases. <i>Journal of Chromatography A</i> , 2012, 1236, 63-76.	1.8	18
79	Method development for pharmaceuticals: Some solutions for tuning selectivity in reversed phase and hydrophilic interaction liquid chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012, 63, 95-105.	1.4	33
80	A Variable Column Length Strategy To Expedite Method Development. <i>Analytical Chemistry</i> , 2011, 83, 966-975.	3.2	10
81	Fast method development of rooibos tea phenolics using a variable column length strategy. <i>Journal of Chromatography A</i> , 2011, 1218, 7347-7357.	1.8	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. <i>Journal of Chromatography A</i> , 2011, 1218, 3351-3359.	1.8	10
83	High-efficiency high performance liquid chromatographic analysis of red wine anthocyanins. <i>Journal of Chromatography A</i> , 2011, 1218, 4660-4670.	1.8	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. <i>Journal of Chromatography A</i> , 2010, 1217, 7074-7081.	1.8	94
85	Use of kinetic plots for the optimization of the separation time in ultra-high-pressure LC. <i>Journal of Separation Science</i> , 2010, 33, 2629-2635.	1.3	20
86	Comparison of performance of high-performance liquid chromatography columns packed with superficially and fully porous 2.5 μ m particles using kinetic plots. <i>Journal of Separation Science</i> , 2010, 33, 3655-3665.	1.3	34
87	Evaluation of a new polymeric stationary phase with reversed-phase properties for high temperature liquid chromatography. <i>Journal of Chromatography A</i> , 2010, 1217, 3217-3222.	1.8	13
88	The kinetic plot method applied to gradient chromatography: Theoretical framework and experimental validation. <i>Journal of Chromatography A</i> , 2010, 1217, 2787-2795.	1.8	90
89	A study of the parameters affecting the accuracy of the total pore blocking method. <i>Journal of Chromatography A</i> , 2010, 1217, 6754-6761.	1.8	18
90	Automatic Column Coupling System To Operate Chromatographic Supports Closer To Their Kinetic Performance Limit and To Enhance Method Development. <i>Analytical Chemistry</i> , 2010, 82, 1054-1065.	3.2	13

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91	Tryptic digest analysis by comprehensive reversed phase—two reversed phase liquid chromatography (RP μ LC μ —2RP μ LC) at different pH's. <i>Journal of Separation Science</i> , 2009, 32, 1137-1144.	1.3	57
92	High performance liquid chromatography analysis of wine anthocyanins revisited: Effect of particle size and temperature. <i>Journal of Chromatography A</i> , 2009, 1216, 3270-3279.	1.8	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. <i>Journal of Chromatography A</i> , 2009, 1216, 3895-3903.	1.8	52
94	Detailed characterisation of the flow resistance of commercial sub-2 $\frac{1}{4}$ m reversed-phase columns. <i>Journal of Chromatography A</i> , 2008, 1178, 108-117.	1.8	56
95	Errors involved in the existing B-term expressions for the longitudinal diffusion in fully porous chromatographic media. <i>Journal of Chromatography A</i> , 2008, 1188, 189-198.	1.8	35
96	Kinetic plot and particle size distribution analysis to discuss the performance limits of sub-2 $\frac{1}{4}$ m and supra-2 $\frac{1}{4}$ m particle columns. <i>Journal of Chromatography A</i> , 2008, 1204, 1-10.	1.8	36
97	Kinetic plot method as a tool to design coupled column systems producing 100,000 theoretical plates in the shortest possible time. <i>Journal of Chromatography A</i> , 2008, 1212, 23-34.	1.8	60
98	Turbulence as a Source of Excessive Baseline Noise during High-Speed Isocratic and Gradient Separations Using Absorption Detection. <i>Analytical Chemistry</i> , 2008, 80, 1679-1688.	3.2	8
99	Use of the kinetic plot method to analyze commercial high-temperature liquid chromatography systems. <i>Journal of Chromatography A</i> , 2007, 1143, 121-133.	1.8	42
100	Use of the kinetic plot method to analyze commercial high-temperature liquid chromatography systems. <i>Journal of Chromatography A</i> , 2007, 1146, 193-201.	1.8	20
101	Method to predict and compare the influence of the particle size on the isocratic peak capacity of high-performance liquid chromatography columns. <i>Journal of Chromatography A</i> , 2007, 1147, 183-191.	1.8	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. <i>Journal of Chromatography A</i> , 2007, 1157, 131-141.	1.8	61
103	Practical Constraints in the Kinetic Plot Representation of Chromatographic Performance Data: Theory and Application to Experimental Data. <i>Analytical Chemistry</i> , 2006, 78, 2150-2162.	3.2	81
104	Future of high pressure liquid chromatography: Do we need porosity or do we need pressure?. <i>Journal of Chromatography A</i> , 2006, 1130, 158-166.	1.8	50
105	Ultra-rapid separation of an angiotensin mixture in nanochannels using shear-driven chromatography. <i>Journal of Chromatography A</i> , 2006, 1102, 96-103.	1.8	34