Ute Pyell

List of Publications by Year in descending order

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60 papers	855 citations	471509 17 h-index	501196 28 g-index
63 all docs	63 docs citations	63 times ranked	903 citing authors

#	Article	IF	Citations
1	Characterization of nanoparticles by capillary electromigration separation techniques. Electrophoresis, 2010, 31, 814-831.	2.4	132
2	Characterization of gold nanoparticles with different hydrophilic coatings via capillary electrophoresis and Taylor dispersion analysis. Part I: Determination of the zeta potential employing a modified analytic approximation. Journal of Colloid and Interface Science, 2015, 450, 288-300.	9.4	57
3	Imidazolium-based ionic liquid-type surfactant as pseudostationary phase in micellar electrokinetic chromatography of highly hydrophilic urinary nucleosides. Journal of Chromatography A, 2013, 1316, 135-146.	3.7	49
4	CE characterization of semiconductor nanocrystals encapsulated with amorphous silicium dioxide. Electrophoresis, 2008, 29, 576-589.	2.4	48
5	Quantification of Zeta-Potential and Electrokinetic Surface Charge Density for Colloidal Silica Nanoparticles Dependent on Type and Concentration of the Counterion: Probing the Outer Helmholtz Plane. Journal of Physical Chemistry C, 2018, 122, 4437-4453.	3.1	47
6	Characterization of hydrophilic coated gold nanoparticles via capillary electrophoresis and Taylor dispersion analysis. Part II: Determination of the hydrodynamic radius distribution â€“ Comparison with asymmetric flow field-flow fractionation. Journal of Colloid and Interface Science, 2015, 457, 131-140.	9.4	35
7	Calibration-free concentration determination of charged colloidal nanoparticles and determination of effective charges by capillary isotachophoresis. Analytical and Bioanalytical Chemistry, 2009, 395, 1681-1691.	3.7	33
8	In-capillary derivatization with o-phthalaldehyde in the presence of 3-mercaptopropionic acid for the simultaneous determination of monosodium glutamate, benzoic acid, and sorbic acid in food samples via capillary electrophoresis with ultraviolet detection. Journal of Chromatography A, 2016, 1449, 156-165.	3.7	31
9	Optimization of resolution in micellar electrokinetic chromatography via computer-aided simultaneous variation of concentrations of sodium dodecyl sulfate and urea as modifier. Journal of Chromatography A, 1995, 716, 81-95.	3.7	30
10	Diffusion as major source of band broadening in field-amplified sample stacking under negligible electroosmotic flow velocity conditions. Journal of Chromatography A, 2010, 1217, 4476-4486.	3.7	29
11	Determination of tryptamine derivatives in illicit synthetic drugs by capillary electrophoresis and ultraviolet laser-induced fluorescence detection. Electrophoresis, 2005, 26, 2391-2401.	2.4	27
12	Determination of urinary nucleosides via borate complexation capillary electrophoresis combined with dynamic pH junction-sweeping-large volume sample stacking as three sequential steps for their on-line enrichment. Analytical and Bioanalytical Chemistry, 2014, 406, 5877-5895.	3.7	25
13	Simultaneous use of urea and acetonitrile as organic modifiers for optimization of resolution in micellar electrokinetic chromatography. Journal of Chromatography A, 1997, 792, 157-163.	3.7	24
14	Widening of the elution window in micellar electrokinetic chromatography with cationic surfactants. Journal of Chromatography A, 1999, 848, 387-400.	3.7	22
15	Processes involved in sweeping under inhomogeneous electric field conditions as sample enrichment procedure in micellar electrokinetic chromatography. Journal of Chromatography A, 2012, 1264, 124-136.	3.7	19
16	Robust analysis of the hydrophobic basic analytes loratadine and desloratadine in pharmaceutical preparations and biological fluids by sweepingâ€"cyclodextrin-modified micellar electrokinetic chromatography. Journal of Chromatography A, 2013, 1309, 64-75.	3.7	19
17	Sweeping as a multistep enrichment process in micellar electrokinetic chromatography: The retention factor gradient effect. Journal of Chromatography A, 2013, 1297, 213-225.	3.7	18
18	Determination of the Exact Particle Radius Distribution for Silica Nanoparticles via Capillary Electrophoresis and Modeling the Electrophoretic Mobility with a Modified Analytic Approximation. Langmuir, 2017, 33, 2325-2339.	3.5	18

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19	Investigation of the ion-exchange properties of methacrylate-based mixed-mode monolithic stationary phases employed as stationary phases in capillary electrochromatography. Journal of Chromatography A, 2007, 1160, 326-335.	3.7	17
20	Boronate affinityâ€assisted MEKC separation of highly hydrophilic urinary nucleosides using imidazoliumâ€based ionic liquid type surfactant as pseudostationary phase. Electrophoresis, 2015, 36, 784-795.	2.4	15
21	Regulation of the retention factor for weak acids in micellar electrokinetic chromatography with cationic surfactant via variation of the chloride concentration. Electrophoresis, 2011, 32, 604-613.	2.4	14
22	The use of derivatized cyclodextrins as solubilizing agents in the preparation of macroporous polymers employed as amphiphilic continuous beds in capillary electrochromatography. Journal of Separation Science, 2006, 29, 2816-2826.	2.5	12
23	Widening of the elution window in micellar electrokinetic chromatography with cationic surfactants. Journal of Chromatography A, 1999, 855, 669-679.	3.7	11
24	Processes involved in sweeping as sample enrichment method in cyclodextrinâ€modified micellar electrokinetic chromatography of hydrophobic basic analytes. Electrophoresis, 2014, 35, 605-616.	2.4	11
25	Off-line and On-line Enrichment of Î±-Aminocephalosporins for Their Analysis in Surface Water Samples Using CZE Coupled to LIF. Chromatographia, 2016, 79, 225-241.	1.3	11
26	Synthesis of a polyrotaxaneâ€based macroporous polymer as stationary phase for capillary electrochromatography via hostâ€“guest complexation of N,NÂ€²â€ethylenedianilinediacrylamide with statistically methylated Î²â€cyclodextrin. Journal of Separation Science, 2008, 31, 1519-1528.	2.5	10
27	Adamantyl-group containing mixed-mode acrylamide-based continuous beds for capillary electrochromatography. Part I: Study of a synthesis procedure including solubilization of N-adamantyl-acrylamide via complex formation with a water-soluble cyclodextrin. Journal of Chromatography A, 2013, 1286, 183-191.	3.7	9
28	The Concept of Stationary and Moving Boundaries Modelled as Accelerating or Decelerating Planes in the Understanding of Sweeping Processes Employed for Online Focusing in Capillary Zone Electrophoresis and Electrokinetic Chromatography. Chromatographia, 2017, 80, 359-382.	1.3	9
29	Optimization of a sensitive and robust strategy for micellar electrokinetic chromatographic analysis of sofosbuvir in combination with its co-formulated hepatitis C antiviral drugs. Journal of Chromatography A, 2020, 1616, 460795.	3.7	9
30	Adamantyl-group containing mixed-mode acrylamide-based continuous beds for capillary electrochromatography. Part II. Characterization of the synthesized monoliths by inverse size exclusion chromatography and scanning electron microscopy. Journal of Chromatography A, 2014, 1325, 247-255.	3.7	8
31	â€œPseudostationary Ion-Exchangerâ€•Sweeping as an Online Enrichment Technique in the Determination of Nucleosides in Urine via Micellar Electrokinetic Chromatography. Chromatographia, 2019, 82, 325-345.	1.3	8
32	Study of the complexation of different methacrylates with cyclodextrins employing a combination of electrophoretic, chromatographic, and NMR-spectroscopic methods. Journal of Separation Science, 2007, 30, 761-771.	2.5	7
33	Mixed-mode acrylamide-based continuous beds bearing tert -butyl groups for capillary electrochromatography synthesized via complexation of N - tert -butylacrylamide with a water-soluble cyclodextrin. Part I: Retention properties. Journal of Chromatography A, 2016, 1477, 114-126.	3.7	7
34	Adamantyl-group containing mixed-mode acrylamide-based continuous beds for capillary electrochromatography. Part IV: Investigation of the chromatographic efficiency dependent on the retention mode. Journal of Chromatography A, 2014, 1349, 80-89.	3.7	5
35	Adamantyl-group containing mixed-mode acrylamide-based continuous beds for capillary electrochromatography. Part III. Optimization of the chromatographic efficiency. Journal of Chromatography A, 2014, 1325, 186-194.	3.7	5
36	Preparation of Cationic Mixed-Mode Acrylamide-Based Monolithic Stationary Phases for Capillary Electrochromatography. Chromatographia, 2018, 81, 1325-1336.	1.3	4

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37	Coupling of Electrokinetic Chromatography to Mass Spectrometry. , 0, , 307-336.		3
38	Elucidation of the Enantiodiscrimination Properties of a Nonracemic Chiral Alignment Medium through Gelâ€based Capillary Electrochromatography: Separation of the Mefloquine Stereoisomers. ChemistryOpen, 2016, 5, 455-459.	1.9	3
39	Micellar and Microemulsion Electrokinetic Chromatography. , 2018, , 113-142.		3
40	Microemulsion Electrokinetic Chromatography. , 0, , 115-135.		2
41	Laser-Induced Fluorescence Detection: A Summary. , 0, , 263-280.		2
42	Electrokinetic Chromatography on Microfluidic Devices. , 0, , 337-349.		1
43	Principles of Enantiomer Separations in Electrokinetic Chromatography. , 0, , 179-206.		1
44	On-Line Sample Enrichment in Electrokinetic Chromatography. , 0, , 207-231.		1
45	Polymeric Pseudostationary Phases and Dendrimers. , 0, , 137-151.		1
46	Theory of Electrokinetic Chromatography. , 0, , 1-31.		1
47	Selectivity Characterization of Pseudostationary Phases Using the Solvation Parameter Model. , 0, , 55-78.		1
48	Mixed-Mode Acrylamide-Based Continuous Beds Bearing tert-Butyl Groups for Capillary Electrochromatography Synthesized Via Complexation of N-tert-Butylacrylamide with a Water-Soluble Cyclodextrin. Part II: Effect of Capillary Size and Polymerization Conditions on Morphology and Chromatographic Efficiency. Chromatographia, 2017, 80, 1669-1682.	1.3	1
49	Environmental Analysis. , 0, , 475-528.		0
50	General Aspects of Instrumentation. , 0, , 233-262.		0
51	Amperometric Detection. , 0, , 281-288.		0
52	Application of Enantioselective Electrokinetic Chromatography. , 0, , 459-474.		0
53	Pseudostationary Ion-Exchange Phases. , 0, , 153-178.		0
54	Electromigration Separation Techniques in Pharmaceutical Analysis. , 0, , 351-371.		0

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55	Application of Electrokinetic Chromatography to Food and Beverages. , 0, , 423-457.		0
56	Analysis of Body Fluids by Electrokinetic Chromatographic Techniques. , 0, , 373-422.		0
57	Photothermal Detection. , 0, , 289-305.		0
58	Determination of Critical Micelle Concentrations by Capillary Electrokinetic Techniques. , 0, , 33-54.		0
59	General Aspects of Resolution Optimization with Micellar Pseudostationary Phases. , 0, , 79-93.		0
60	Optimization of the Separation Conditions in Electrokinetic Chromatography: Experimental Designs, Modelling and Validation. , 0, , 95-113.		0