Susanne Wiedmer

List of Publications by Year
in descending order

118 papers	3,151 citations	126708 33 h-index	214527 47 g-index
120 all docs	120 docs citations	120 times ranked	3336 citing authors

#	Article	IF	Citations
1	Hydrophilic interaction liquid chromatography in food analysis. Journal of Chromatography A, 2011, 1218, 7438-7452.	1.8	107
2	Thermal aggregation of bovine serum albumin studied by asymmetrical flow field-flow fractionation. Analytica Chimica Acta, 2010, 675, 191-198.	2.6	105
3	Comparative method evaluation for size and sizeâ€distribution analysis of gold nanoparticles. Journal of Separation Science, 2013, 36, 2952-2961.	1.3	87
4	Study on liposomes by capillary electrophoresis. Electrophoresis, 2001, 22, 1305-1313.	1.3	80
5	Impact of Amphiphilic Biomass-Dissolving Ionic Liquids on Biological Cells and Liposomes. Environmental Science & Technology, 2015, 49, 1870-1878.	4.6	78
6	Determination of the Main Phase Transition Temperature of Phospholipids by Nanoplasmonic Sensing. Scientific Reports, 2018, 8, 14815.	1.6	78
7	Structure of Anionic Phospholipid Coatings on Silica by Dissipative Quartz Crystal Microbalance. Langmuir, 2007, 23, 609-618.	1.6	74
8	Effect of Ionic Liquids on Zebrafish (Danio rerio) Viability, Behavior, and Histology; Correlation between Toxicity and Ionic Liquid Aggregation. Environmental Science & Technology, 2016, 50, 7116-7125.	4.6	74
9	Adsorption of Proteins on Colloidal Lignin Particles for Advanced Biomaterials. Biomacromolecules, 2017, 18, 2767-2776.	2.6	71
10	Phospholipids and liposomes in liquid chromatographic and capillary electromigration techniques. TrAC - Trends in Analytical Chemistry, 2004, 23, 562-582.	5.8	70
11	Simple coating of capillaries with anionic liposomes in capillary electrophoresis. Journal of Chromatography A, 2003, 1004, 81-90.	1.8	69
12	Molecular Organization of the Tear Fluid Lipid Layer. Biophysical Journal, 2010, 99, 2559-2567.	0.2	67
13	Liposomes as carriers in electrokinetic capillary chromatography. Electrophoresis, 2000, 21, 3191-3198.	1.3	62
14	Use of a partial filling technique and reverse migrating micelles in the study of N-methylcarbamate pesticides by micellar electrokinetic chromatographyâ€“electrospray ionization mass spectrometry. Journal of Chromatography A, 2001, 927, 191-202.	1.8	53
15	Visualizing spatial lipid distribution in porcine lens by MALDI imaging high-resolution mass spectrometry. Journal of Lipid Research, 2010, 51, 2295-2302.	2.0	50
16	Recycling of Superbase-Based Ionic Liquid Solvents for the Production of Textile-Grade Regenerated Cellulose Fibers in the Lyocell Process. ACS Sustainable Chemistry and Engineering, 2020, 8, 14217-14227.	3.2	49
17	Mixed Micelles of Sodium Dodecyl Sulfate and Sodium Cholate:â€‰ Micellar Electrokinetic Capillary Chromatography and Nuclear Magnetic Resonance Spectroscopy. Analytical Chemistry, 1997, 69, 1577-1584.	3.2	45
18	Cholesterol-containing phosphatidylcholine liposomes: Characterization and use as dispersed phase in electrokinetic capillary chromatography. Journal of Separation Science, 2002, 25, 427-437.	1.3	44

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19	Miniaturization of asymmetrical flow field-flow fractionation and application to studies on lipoprotein aggregation and fusion. Analytical Biochemistry, 2006, 354, 255-265.	1.1	44
20	Piperazine-based buffers for liposome coating of capillaries for electrophoresis. Electrophoresis, 2005, 26, 1920-1927.	1.3	43
21	Correlation between Ionic Liquid Cytotoxicity and Liposomeâ€“Ionic Liquid Interactions. Chemistry - A European Journal, 2018, 24, 2669-2680.	1.7	43
22	Optimized separation of seven corticosteroids by micellar electrokinetic chromatography. Electrophoresis, 1994, 15, 1267-1272.	1.3	41
23	Phospholipid-lysozyme coating for chiral separation in capillary electrophoresis. Electrophoresis, 2004, 25, 1784-1791.	1.3	38
24	Melting Pointsâ€”The Key to the Anti-Evaporative Effect of the Tear Film Wax Esters. , 2013, 54, 5211.		38
25	Continuous process for selective metal extraction with an ionic liquid. Chemical Engineering Research and Design, 2016, 109, 553-560.	2.7	38
26	Impact of Surface-Active Guanidinium-, Tetramethylguanidinium-, and Cholinium-Based Ionic Liquids on Vibrio Fischeri Cells and Dipalmitoylphosphatidylcholine Liposomes. Scientific Reports, 2017, 7, 46673.	1.6	38
27	Stability of phospholipid vesicles studied by asymmetrical flow field-flow fractionation and capillary electrophoresis. Analytica Chimica Acta, 2006, 560, 50-56.	2.6	37
28	Unraveling Interactions between Ionic Liquids and Phospholipid Vesicles Using Nanoplasmonic Sensing. Langmuir, 2017, 33, 1066-1076.	1.6	37
29	Phospholipidâ€protein coatings for chiral capillary electrochromatography. Analytical Biochemistry, 2008, 373, 26-33.	1.1	36
30	Effects of phosphonium-based ionic liquids on phospholipid membranes studied by small-angle X-ray scattering. Chemistry and Physics of Lipids, 2016, 201, 59-66.	1.5	36
31	Interaction of a commercial lipid dispersion and local anesthetics in human plasma: implications for drug trapping by â€œlipid-sinksâ€. Analytical and Bioanalytical Chemistry, 2010, 396, 2599-2607.	1.9	35
32	Stabilization of phosphatidylcholine coatings in capillary electrophoresis by increase in membrane rigidity. Journal of Chromatography A, 2004, 1051, 61-68.	1.8	34
33	Quantitative determination of drug encapsulation in poly(lactic acid) nanoparticles by capillary electrophoresis. Journal of Chromatography A, 2008, 1178, 248-255.	1.8	34
34	Liposomes in capillary electromigration techniques. Electrophoresis, 2009, 30, S240-57.	1.3	34
35	On-line partial filling micellar electrokinetic capillary chromatography-electrospray ionization-mass spectrometry of corticosteroids. Electrophoresis, 1998, 19, 1711-1718.	1.3	33
36	Anionic liposomes in capillary electrophoresis: Effect of calcium on 1-palmitoyl-2-oleyl- sn -glycero-3-phosphatidylcholine / phosphatidylserine-coating in silica capillaries. Analytical and Bioanalytical Chemistry, 2004, 378, 1769-1776.	1.9	33

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37	Separation of nucleobases, nucleosides, and nucleotides using two zwitterionic silica-based monolithic capillary columns coupled with tandem mass spectrometry. Journal of Chromatography A, 2014, 1373, 90-96.	1.8	33
38	Electrophoretic studies of polygalacturonate oligomers and their interactions with metal ions. Electrophoresis, 2000, 21, 3212-3219.	1.3	32
39	Determination of serum corticosteroids by mixed micellar electrokinetic capillary chromatography with sodium dodecyl sulfate and sodium cholate. Electrophoresis, 1997, 18, 1861-1864.	1.3	31
40	Determination of iridoid glycosides by micellar electrokinetic capillary chromatography-mass spectrometry with use of the partial filling technique. Electrophoresis, 2001, 22, 2580-2587.	1.3	31
41	Immobilization of phospholipid-avidin on fused-silica capillaries for chiral separation in open-tubular capillary electrochromatography. Electrophoresis, 2006, 27, 1502-1509.	1.3	31
42	Interactions between local anesthetics and lipid dispersions studied with liposome electrokinetic capillary chromatography. Journal of Chromatography A, 2009, 1216, 3392-3397.	1.8	30
43	Influence of pH on formation and stability of phosphatidylcholine/phosphatidylserine coatings in fused-silica capillaries. Electrophoresis, 2005, 26, 176-186.	1.3	28
44	Human Low-Density Lipoprotein-Coated Capillaries in Electrochromatography. Analytical Chemistry, 2005, 77, 3401-3405.	3.2	27
45	Cationic lipid vesicles as coating precursors in capillary electrochromatography: Separation of basic proteins and neutral steroids. Journal of Chromatography A, 2006, 1119, 163-169.	1.8	27
46	Determination of iridoid glycosides in larvae and adults of butterfly Melitaea cinxia by partial filling micellar electrokinetic capillary chromatography?electrospray ionisation mass spectrometry. Analytical and Bioanalytical Chemistry, 2003, 376, 884-889.	1.9	26
47	Silica-based monolithic capillary columns modified by liposomes for characterization of analyteâ€“liposome interactions by capillary liquid chromatography. Journal of Chromatography A, 2013, 1317, 159-166.	1.8	25
48	Cholesterol affects the interaction between an ionic liquid and phospholipid vesicles. A study by differential scanning calorimetry and nanoplasmonic sensing. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 2361-2372.	1.4	24
49	Interaction of Fusidic Acid with Lipid Membranes: Implications to the Mechanism of Antibiotic Activity. Biophysical Journal, 2006, 91, 1787-1799.	0.2	23
50	Capillary electromigration techniques for studying interactions between analytes and lipid dispersions. Journal of Separation Science, 2013, 36, 37-51.	1.3	23
51	Monoliths in capillary electrochromatography and capillary liquid chromatography in conjunction with mass spectrometry. Electrophoresis, 2016, 37, 880-912.	1.3	23
52	Spatial Distribution of Glycerophospholipids in the Ocular Lens. PLoS ONE, 2011, 6, e19441.	1.1	23
53	Optimization of selectivity and resolution in micellar electrokinetic capillary chromatography with a mixed micellar system of sodium dodecyl sulfate and sodium cholate. Electrophoresis, 1996, 17, 1931-1937.	1.3	22
54	Liposome electrokinetic capillary chromatography in the study of analyte-phospholipid membrane interactions. Application to pesticides and related compounds. Journal of Separation Science, 2008, 31, 2714-2721.	1.3	22

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55	Immobilization of proteolytic enzymes on replica-molded thiol-ene micropillar reactors via thiol-gold interaction. Analytical and Bioanalytical Chemistry, 2019, 411, 2339-2349.	1.9	22
56	Stabilization of phosphatidylcholine coatings in capillary electrophoresis by increase in membrane rigidity. Journal of Chromatography A, 2004, 1051, 61-68.	1.8	21
57	Interfacial and Lipid Transfer Properties of Human Phospholipid Transfer Protein:Â Implications for the Transfer Mechanism of Phospholipidsâ€. Biochemistry, 2007, 46, 1312-1319.	1.2	21
58	Anionic phospholipid coatings in capillary electrochromatography. Journal of Chromatography A, 2007, 1150, 339-347.	1.8	21
59	Ceramide-1-Phosphate, in Contrast to Ceramide, Is Not Segregated into Lateral Lipid Domains in Phosphatidylcholine Bilayers. Biophysical Journal, 2009, 96, 2216-2226.	0.2	21
60	Liposomes for entrapping local anesthetics: A liposome electrokinetic chromatographic study. Electrophoresis, 2010, 31, 1540-1549.	1.3	21
61	Cholesterol-rich membrane coatings for interaction studies in capillary electrophoresis: Application to red blood cell lipid extracts. Electrophoresis, 2006, 27, 3988-3998.	1.3	20
62	Characterization of phosphatidylcholine/polyethylene glycolâ€lipid aggregates and their use as coatings and carriers in capillary electrophoresis. Electrophoresis, 2008, 29, 852-862.	1.3	20
63	Marker compounds for the determination of retention factors in EKC. Journal of Separation Science, 2010, 33, 394-409.	1.3	20
64	Phosphonium-based ionic liquids in electrokinetic capillary chromatography for the separation of neutral analytes. Journal of Chromatography A, 2012, 1253, 171-176.	1.8	20
65	Immobilization of a phosphonium ionic liquid on a silica monolith for hydrophilic interaction chromatography. Journal of Chromatography A, 2018, 1552, 53-59.	1.8	20
66	Hydrophilic Monomethyl Auristatin E Derivatives as Novel Candidates for the Design of Antibody-Drug Conjugates. Separations, 2019, 6, 1.	1.1	20
67	Influence of cetyltrimethylammonium bromide on phosphatidylcholine-coated capillaries. Analytical and Bioanalytical Chemistry, 2004, 380, 293-302.	1.9	19
68	Small diamines as modifiers for phosphatidylcholine/phosphatidylserine coatings in capillary electrochromatography. Journal of Chromatography A, 2005, 1081, 92-98.	1.8	19
69	Interactions of fusidic acid and elongation factor G with lipid membranes. Analytical Biochemistry, 2008, 374, 133-142.	1.1	19
70	Polyelectrolyte complexes of poly(methacryloxyethyl trimethylammonium chloride) and poly(ethylene oxide)-block-poly(sodium methacrylate) studied by asymmetrical flow field-flow fractionation and dynamic light scattering. Analytica Chimica Acta, 2005, 542, 222-229.	2.6	18
71	Effect of ionic liquids on the interaction between liposomes and common wastewater pollutants investigated by capillary electrophoresis. Journal of Chromatography A, 2015, 1405, 178-187.	1.8	18
72	A systematic review of 3D printing in chemistry education â€“ analysis of earlier research and educational use through technological pedagogical content knowledge framework. Chemistry Teacher International, 2020, 2, .	0.9	18

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73	Cytochrome c?dimyristoylphosphatidylglycerol interactions studied by asymmetrical flow field-flow fractionation. Analytical and Bioanalytical Chemistry, 2004, 380, 757-766.	1.9	17
74	Antibiotic fusidic acid has strong interactions with negatively charged lipid membranes: An electrokinetic capillary chromatographic study. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 2640-2647.	1.4	17
75	Covalent binding of phospholipid vesicles on fused silica capillaries for electrochromatography. Soft Matter, 2011, 7, 6041.	1.2	16
76	Pure Glaucoma Drugs Are Toxic to Immortalized Human Corneal Epithelial Cells, but They Do Not Destabilize Lipid Membranes. Cornea, 2017, 36, 1249-1255.	0.9	15
77	Phosphatidylcholine covalently linked to a methacrylate-based monolith as a biomimetic stationary phase for capillary liquid chromatography. Journal of Chromatography A, 2015, 1402, 27-35.	1.8	14
78	Distribution of local anesthetics between aqueous and liposome phases. Journal of Chromatography A, 2017, 1479, 194-203.	1.8	14
79	WtFâ€Nano: Oneâ€Pot Dewatering and Waterâ€Free Topochemical Modification of Nanocellulose in Ionic Liquids or Î³â€Valerolactone. ChemSusChem, 2017, 10, 4879-4890.	3.6	14
80	Ionic liquids affect the adsorption of liposomes onto cationic polyelectrolyte coated silica evidenced by quartz crystal microbalance. Colloids and Surfaces B: Biointerfaces, 2015, 136, 496-505.	2.5	13
81	Temperature-induced structural transition in-situ in porcine lens â€" Changes observed in void size distribution. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 958-965.	1.4	12
82	Metabolomic analysis of polar metabolites in lipoprotein fractions identifies lipoprotein-specific metabolic profiles and their association with insulin resistance. Molecular BioSystems, 2012, 8, 2559.	2.9	12
83	Determination of the distribution constants of aromatic compounds and steroids in biphasic micellar phosphonium ionic liquid/aqueous buffer systems by capillary electrokinetic chromatography. Journal of Chromatography A, 2013, 1308, 144-151.	1.8	12
84	Study on capillaries covalently bound with phospholipid vesicles for openâ€tubular CEC and application to onâ€line openâ€tubular CECâ€MS. Electrophoresis, 2013, 34, 3180-3188.	1.3	12
85	Physical Properties of 7-Methyl-1,5,7-triazabicyclo[4.4.0]dec-5-ene (mTBD). International Journal of Thermophysics, 2019, 40, 1.	1.0	12
86	Comprehensive Two-Dimensional Field-Flow Fractionation-Liquid Chromatography in the Analysis of Large Molecules. Analytical Chemistry, 2007, 79, 3091-3098.	3.2	11
87	Dynamic coating of SUâ€8 microfluidic chips with phospholipid disks. Electrophoresis, 2010, 31, 2566-2574.	1.3	11
88	Phospholipids covalently attached to silica particles as stationary phase in nano-liquid chromatography. Journal of Pharmaceutical and Biomedical Analysis, 2012, 71, 1-10.	1.4	11
89	The structure of Lactobacillus brevis surface layer reassembled on liposomes differs from native structure as revealed by SAXS. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2099-2104.	1.4	11
90	Cationic poly(methacryl oxyethyl trimethylammonium) and its poly(ethylene glycol)â€grafted analogue as capillary coating materials in electrophoresis. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 2655-2663.	2.4	10

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91	Novel, dynamic on-line analytical separation system for dissolution of drugs from poly(lactic acid) nanoparticles. Journal of Pharmaceutical and Biomedical Analysis, 2010, 51, 125-130.	1.4	10
92	In vitro capturing of various lipophilic illicit drugs by lipid dispersions. An electrokinetic capillary chromatography and fluorescence polarization study. European Journal of Pharmaceutical Sciences, 2010, 41, 515-522.	1.9	10
93	Interactions of Ionic Liquids and Spirocyclic Compounds with Liposome Model Membranes. A Steady-State Fluorescence Anisotropy Study. Scientific Reports, 2019, 9, 18349.	1.6	10
94	In vitro and in vivo entrapment of bupivacaine by lipid dispersions. Journal of Chromatography A, 2012, 1254, 125-131.	1.8	9
95	Nanoplasmonic Sensing and Capillary Electrophoresis for Fast Screening of Interactions between Phosphatidylcholine Biomembranes and Surfactants. Langmuir, 2018, 34, 5889-5900.	1.6	9
96	Polyethylenimine-modified metal oxides for fabrication of packed capillary columns for capillary electrochromatography and capillary liquid chromatography. Journal of Chromatography A, 2011, 1218, 5020-5029.	1.8	8
97	Comparison of lipid sinks in sequestering common intoxicating drugs. Journal of Separation Science, 2012, 35, 3106-3112.	1.3	8
98	Determination of distribution constants of antioxidants by electrokinetic chromatography. Cogent Chemistry, 2017, 3, 1385173.	2.5	8
99	Vaporâ€“Liquid Equilibrium of Ionic Liquid 7-Methyl-1,5,7-triazabicyclo[4.4.0]dec-5-enium Acetate and Its Mixtures with Water. Journal of Chemical & Engineering Data, 2020, 65, 2405-2421.	1.0	8
100	Determination of nonylphenol and nonylphenol ethoxylates in wastewater using MEKC. Journal of Separation Science, 2009, 32, 2109-2116.	1.3	7
101	Novel cationic polyelectrolyte coatings for capillary electrophoresis. Electrophoresis, 2016, 37, 363-371.	1.3	7
102	Theoretical background on semiconducting polymers and their applications to OSCs and OLEDs. Chemistry Teacher International, 2021, 3, 169-183.	0.9	7
103	MIXED MICELLES OF SDS AND SODIUM CHOLATE. A NUCLEAR MAGNETIC RESONANCE DIFFUSION AND RELAXATION STUDY. Journal of Dispersion Science and Technology, 2000, 21, 209-227.	1.3	6
104	A combined targeted/untargeted LC-MS/MS-based screening approach for mammalian cell lines treated with ionic liquids: Toxicity correlates with metabolic profile. Talanta, 2019, 197, 472-481.	2.9	6
105	Stabilization of phosphatidylcholine coatings in capillary electrophoresis by increase in membrane rigidity. Journal of Chromatography A, 2004, 1051, 61-8.	1.8	5
106	Calcium Dependent Reversible Aggregation of Escherichia coli Biomimicking Vesicles Enables Formation of Supported Vesicle Layers on Silicon Dioxide. Frontiers in Materials, 2019, 6, .	1.2	4
107	Relevant biological interactions biomimicked by capillary electromigration techniques. Journal of Chromatography Open, 2021, 1, 100020.	0.8	4
108	Capillary electrophoresis as a practical tool in the study of novel rigid amino alcohols derived from (+)-camphor for catalytic enantioselective addition of organozincs to aldehydes. Analyst, The, 2000, 125, 185-190.	1.7	3

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109	Chromatographic lipid profiling of stressâ€exposed cells. Journal of Separation Science, 2012, 35, 1845-1853.	1.3	3
110	Immobilization of natural lipid biomembranes and their interactions with choline carboxylates. A nanoplasmonic sensing study. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183115.	1.4	2
111	Characterization of Liposomes by FFF. , 2012, , 207-221.		2
112	Capillary electrochromatography. , 2017, , 697-718.		1
113	Assessing the Interactions of Auristatin Derivatives with Mixed Phospholipidâ€“Sodium Dodecyl Sulfate Aggregate Dispersions. Langmuir, 2019, 35, 5232-5240.	1.6	1
114	CE and asymmetrical flowâ€field flow fractionation studies of polymer interactions with surfaces and solutes reveal conformation changes of polymers. Journal of Separation Science, 2020, 43, 2495-2505.	1.3	1
115	Characterization and applications of a trioctyl(3/4-vinylbenzyl)phosphonium stationary phase for use in capillary liquid chromatography. Journal of Chromatography A, 2022, 1666, 462866.	1.8	1
116	A Comparison Of Ceramide And Ceramide-1-phosphate Miscibility In Phosphatidylcholine Bilayers. Biophysical Journal, 2009, 96, 162a-163a.	0.2	0
117	Determination of N-methyl-2-pyrrolidone and its metabolites in urine by micellar electrokinetic chromatography. Open Chemistry, 2011, 9, 825-833.	1.0	0
118	Professor Marja-Liisa Riekkola's 60th birthday. Journal of Chromatography A, 2013, 1317, 1-2.	1.8	0