

# Susanne Wiedmer

## List of Publications by Citations

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116  
papers

2,618  
citations

30  
h-index

42  
g-index

120  
ext. papers

2,821  
ext. citations

4.1  
avg. IF

4.94  
L-index

#	Paper	IF	Citations
116	Hydrophilic interaction liquid chromatography in food analysis. <i>Journal of Chromatography A</i> , <b>2011</b> , 1218, 7438-52	4.5	96
115	Thermal aggregation of bovine serum albumin studied by asymmetrical flow field-flow fractionation. <i>Analytica Chimica Acta</i> , <b>2010</b> , 675, 191-8	6.6	80
114	Study on liposomes by capillary electrophoresis. <i>Electrophoresis</i> , <b>2001</b> , 22, 1305-13	3.6	73
113	Comparative method evaluation for size and size-distribution analysis of gold nanoparticles. <i>Journal of Separation Science</i> , <b>2013</b> , 36, 2952-61	3.4	68
112	Structure of anionic phospholipid coatings on silica by dissipative quartz crystal microbalance. <i>Langmuir</i> , <b>2007</b> , 23, 609-18	4	66
111	Impact of amphiphilic biomass-dissolving ionic liquids on biological cells and liposomes. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 1870-8	10.3	65
110	Effect of Ionic Liquids on Zebrafish ( <i>Danio rerio</i> ) Viability, Behavior, and Histology; Correlation between Toxicity and Ionic Liquid Aggregation. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 7116-25	10.3	62
109	Phospholipids and liposomes in liquid chromatographic and capillary electromigration techniques. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2004</b> , 23, 562-582	14.6	61
108	Molecular organization of the tear fluid lipid layer. <i>Biophysical Journal</i> , <b>2010</b> , 99, 2559-67	2.9	59
107	Simple coating of capillaries with anionic liposomes in capillary electrophoresis. <i>Journal of Chromatography A</i> , <b>2003</b> , 1004, 81-90	4.5	59
106	Liposomes as carriers in electrokinetic capillary chromatography. <i>Electrophoresis</i> , <b>2000</b> , 21, 3191-8	3.6	56
105	Adsorption of Proteins on Colloidal Lignin Particles for Advanced Biomaterials. <i>Biomacromolecules</i> , <b>2017</b> , 18, 2767-2776	6.9	53
104	Use of a partial filling technique and reverse migrating micelles in the study of N-methylcarbamate pesticides by micellar electrokinetic chromatography-electrospray ionization mass spectrometry. <i>Journal of Chromatography A</i> , <b>2001</b> , 927, 191-202	4.5	49
103	Visualizing spatial lipid distribution in porcine lens by MALDI imaging high-resolution mass spectrometry. <i>Journal of Lipid Research</i> , <b>2010</b> , 51, 2295-302	6.3	46
102	Mixed Micelles of Sodium Dodecyl Sulfate and Sodium Cholate: Micellar Electrokinetic Capillary Chromatography and Nuclear Magnetic Resonance Spectroscopy. <i>Analytical Chemistry</i> , <b>1997</b> , 69, 1577-1584	7.8	42
101	Miniaturization of asymmetrical flow field-flow fractionation and application to studies on lipoprotein aggregation and fusion. <i>Analytical Biochemistry</i> , <b>2006</b> , 354, 255-65	3.1	40
100	Determination of the Main Phase Transition Temperature of Phospholipids by Nanoplasmonic Sensing. <i>Scientific Reports</i> , <b>2018</b> , 8, 14815	4.9	40

99	Cholesterol-containing phosphatidylcholine liposomes: Characterization and use as dispersed phase in electrokinetic capillary chromatography. <i>Journal of Separation Science</i> , <b>2002</b> , 25, 427-437	3.4	39
98	Piperazine-based buffers for liposome coating of capillaries for electrophoresis. <i>Electrophoresis</i> , <b>2005</b> , 26, 1920-7	3.6	37
97	Optimized separation of seven corticosteroids by micellar electrokinetic chromatography. <i>Electrophoresis</i> , <b>1994</b> , 15, 1267-72	3.6	37
96	Phospholipid-lysozyme coating for chiral separation in capillary electrophoresis. <i>Electrophoresis</i> , <b>2004</b> , 25, 1784-91	3.6	34
95	Melting points--the key to the anti-evaporative effect of the tear film wax esters <b>2013</b> , 54, 5211-7		33
94	Phospholipid-protein coatings for chiral capillary electrochromatography. <i>Analytical Biochemistry</i> , <b>2008</b> , 373, 26-33	3.1	33
93	Stability of phospholipid vesicles studied by asymmetrical flow field-flow fractionation and capillary electrophoresis. <i>Analytica Chimica Acta</i> , <b>2006</b> , 560, 50-56	6.6	33
92	Stabilization of phosphatidylcholine coatings in capillary electrophoresis by increase in membrane rigidity. <i>Journal of Chromatography A</i> , <b>2004</b> , 1051, 61-68	4.5	31
91	Correlation between Ionic Liquid Cytotoxicity and Liposome-Ionic Liquid Interactions. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 2669-2680	4.8	30
90	Separation of nucleobases, nucleosides, and nucleotides using two zwitterionic silica-based monolithic capillary columns coupled with tandem mass spectrometry. <i>Journal of Chromatography A</i> , <b>2014</b> , 1373, 90-6	4.5	30
89	Liposomes in capillary electromigration techniques. <i>Electrophoresis</i> , <b>2009</b> , 30 Suppl 1, S240-57	3.6	30
88	Interaction of a commercial lipid dispersion and local anesthetics in human plasma: implications for drug trapping by "lipid-sinks". <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 396, 2599-607	4.4	30
87	Immobilization of phospholipid-avidin on fused-silica capillaries for chiral separation in open-tubular capillary electrochromatography. <i>Electrophoresis</i> , <b>2006</b> , 27, 1502-9	3.6	30
86	Unraveling Interactions between Ionic Liquids and Phospholipid Vesicles Using Nanoplasmonic Sensing. <i>Langmuir</i> , <b>2017</b> , 33, 1066-1076	4	29
85	Determination of serum corticosteroids by mixed micellar electrokinetic capillary chromatography with sodium dodecyl sulfate and sodium cholate. <i>Electrophoresis</i> , <b>1997</b> , 18, 1861-4	3.6	29
84	Quantitative determination of drug encapsulation in poly(lactic acid) nanoparticles by capillary electrophoresis. <i>Journal of Chromatography A</i> , <b>2008</b> , 1178, 248-55	4.5	28
83	Anionic liposomes in capillary electrophoresis: effect of calcium on 1-palmitoyl-2-oleyl-sn-glycero-3-phosphatidylcholine / phosphatidylserine-coating in silica capillaries. <i>Analytical and Bioanalytical Chemistry</i> , <b>2004</b> , 378, 1769-76	4.4	28
82	Electrophoretic studies of polygalacturonate oligomers and their interactions with metal ions. <i>Electrophoresis</i> , <b>2000</b> , 21, 3212-9	3.6	28

81	Impact of Surface-Active Guanidinium-, Tetramethylguanidinium-, and Cholinium-Based Ionic Liquids on <i>Vibrio Fischeri</i> Cells and Dipalmitoylphosphatidylcholine Liposomes. <i>Scientific Reports</i> , <b>2017</b> , 7, 46673	4.9	27
80	Interactions between local anesthetics and lipid dispersions studied with liposome electrokinetic capillary chromatography. <i>Journal of Chromatography A</i> , <b>2009</b> , 1216, 3392-7	4.5	27
79	On-line partial filling micellar electrokinetic capillary chromatography-electrospray ionization-mass spectrometry of corticosteroids. <i>Electrophoresis</i> , <b>1998</b> , 19, 1711-8	3.6	27
78	Human low-density lipoprotein-coated capillaries in electrochromatography. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 3401-5	7.8	27
77	Cationic lipid vesicles as coating precursors in capillary electrochromatography: separation of basic proteins and neutral steroids. <i>Journal of Chromatography A</i> , <b>2006</b> , 1119, 163-9	4.5	27
76	Continuous process for selective metal extraction with an ionic liquid. <i>Chemical Engineering Research and Design</i> , <b>2016</b> , 109, 553-560	5.5	27
75	Effects of phosphonium-based ionic liquids on phospholipid membranes studied by small-angle X-ray scattering. <i>Chemistry and Physics of Lipids</i> , <b>2016</b> , 201, 59-66	3.7	26
74	Influence of pH on formation and stability of phosphatidylcholine/phosphatidylserine coatings in fused-silica capillaries. <i>Electrophoresis</i> , <b>2005</b> , 26, 176-86	3.6	25
73	Determination of iridoid glycosides by micellar electrokinetic capillary chromatography-mass spectrometry with use of the partial filling technique. <i>Electrophoresis</i> , <b>2001</b> , 22, 2580-7	3.6	25
72	Monoliths in capillary electrochromatography and capillary liquid chromatography in conjunction with mass spectrometry. <i>Electrophoresis</i> , <b>2016</b> , 37, 880-912	3.6	23
71	Liposome electrokinetic capillary chromatography in the study of analyte-phospholipid membrane interactions. Application to pesticides and related compounds. <i>Journal of Separation Science</i> , <b>2008</b> , 31, 2714-21	3.4	21
70	Optimization of selectivity and resolution in micellar electrokinetic capillary chromatography with a mixed micellar system of sodium dodecyl sulfate and sodium cholate. <i>Electrophoresis</i> , <b>1996</b> , 17, 1931-7	3.6	21
69	Capillary electromigration techniques for studying interactions between analytes and lipid dispersions. <i>Journal of Separation Science</i> , <b>2013</b> , 36, 37-51	3.4	20
68	Silica-based monolithic capillary columns modified by liposomes for characterization of analyte-liposome interactions by capillary liquid chromatography. <i>Journal of Chromatography A</i> , <b>2013</b> , 1317, 159-66	4.5	20
67	Interfacial and lipid transfer properties of human phospholipid transfer protein: implications for the transfer mechanism of phospholipids. <i>Biochemistry</i> , <b>2007</b> , 46, 1312-9	3.2	20
66	Characterization of phosphatidylcholine/polyethylene glycol-lipid aggregates and their use as coatings and carriers in capillary electrophoresis. <i>Electrophoresis</i> , <b>2008</b> , 29, 852-62	3.6	20
65	Determination of iridoid glycosides in larvae and adults of butterfly <i>Melitaea cinxia</i> by partial filling micellar electrokinetic capillary chromatography-electrospray ionisation mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , <b>2003</b> , 376, 884-9	4.4	20
64	Stabilization of phosphatidylcholine coatings in capillary electrophoresis by increase in membrane rigidity. <i>Journal of Chromatography A</i> , <b>2004</b> , 1051, 61-68	4.5	20

63	Recycling of Superbase-Based Ionic Liquid Solvents for the Production of Textile-Grade Regenerated Cellulose Fibers in the Lyocell Process. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 14217-14227	8.3	20
62	Phosphonium-based ionic liquids in electrokinetic capillary chromatography for the separation of neutral analytes. <i>Journal of Chromatography A</i> , <b>2012</b> , 1253, 171-6	4.5	19
61	Cholesterol-rich membrane coatings for interaction studies in capillary electrophoresis: application to red blood cell lipid extracts. <i>Electrophoresis</i> , <b>2006</b> , 27, 3988-98	3.6	19
60	Interaction of fusidic acid with lipid membranes: Implications to the mechanism of antibiotic activity. <i>Biophysical Journal</i> , <b>2006</b> , 91, 1787-99	2.9	19
59	Influence of cetyltrimethylammonium bromide on phosphatidylcholine-coated capillaries. <i>Analytical and Bioanalytical Chemistry</i> , <b>2004</b> , 380, 293-302	4.4	19
58	Spatial distribution of glycerophospholipids in the ocular lens. <i>PLoS ONE</i> , <b>2011</b> , 6, e19441	3.7	19
57	Immobilization of a phosphonium ionic liquid on a silica monolith for hydrophilic interaction chromatography. <i>Journal of Chromatography A</i> , <b>2018</b> , 1552, 53-59	4.5	18
56	Ceramide-1-phosphate, in contrast to ceramide, is not segregated into lateral lipid domains in phosphatidylcholine bilayers. <i>Biophysical Journal</i> , <b>2009</b> , 96, 2216-26	2.9	18
55	Anionic phospholipid coatings in capillary electrochromatography. Binding of Ca <sup>2+</sup> to phospholipid phosphate group. <i>Journal of Chromatography A</i> , <b>2007</b> , 1150, 339-47	4.5	18
54	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. <i>Analytica Chimica Acta</i> , <b>2005</b> , 542, 222-229	6.6	18
53	Liposomes for entrapping local anesthetics: a liposome electrokinetic chromatographic study. <i>Electrophoresis</i> , <b>2010</b> , 31, 1540-9	3.6	17
52	Marker compounds for the determination of retention factors in EKC. <i>Journal of Separation Science</i> , <b>2010</b> , 33, 394-409	3.4	17
51	Interactions of fusidic acid and elongation factor G with lipid membranes. <i>Analytical Biochemistry</i> , <b>2008</b> , 374, 133-42	3.1	17
50	Cytochrome c-dimyristoylphosphatidylglycerol interactions studied by asymmetrical flow field-flow fractionation. <i>Analytical and Bioanalytical Chemistry</i> , <b>2004</b> , 380, 757-66	4.4	17
49	Small diamines as modifiers for phosphatidylcholine/phosphatidylserine coatings in capillary electrochromatography. <i>Journal of Chromatography A</i> , <b>2005</b> , 1081, 92-8	4.5	17
48	Effect of ionic liquids on the interaction between liposomes and common wastewater pollutants investigated by capillary electrophoresis. <i>Journal of Chromatography A</i> , <b>2015</b> , 1405, 178-87	4.5	16
47	Cholesterol affects the interaction between an ionic liquid and phospholipid vesicles. A study by differential scanning calorimetry and nanoplasmonic sensing. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2017</b> , 1859, 2361-2372	3.8	15
46	Antibiotic fusidic acid has strong interactions with negatively charged lipid membranes: an electrokinetic capillary chromatographic study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2008</b> , 1778, 2640-7	3.8	15

45	Hydrophilic Monomethyl Auristatin E Derivatives as Novel Candidates for the Design of Antibody-Drug Conjugates. <i>Separations</i> , <b>2019</b> , 6, 1	3.1	15
44	Covalent binding of phospholipid vesicles on fused silica capillaries for electrochromatography. <i>Soft Matter</i> , <b>2011</b> , 7, 6041	3.6	14
43	Immobilization of proteolytic enzymes on replica-molded thiol-ene micropillar reactors via thiol-gold interaction. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 2339-2349	4.4	12
42	Phosphatidylcholine covalently linked to a methacrylate-based monolith as a biomimetic stationary phase for capillary liquid chromatography. <i>Journal of Chromatography A</i> , <b>2015</b> , 1402, 27-35	4.5	12
41	Determination of the distribution constants of aromatic compounds and steroids in biphasic micellar phosphonium ionic liquid/aqueous buffer systems by capillary electrokinetic chromatography. <i>Journal of Chromatography A</i> , <b>2013</b> , 1308, 144-51	4.5	12
40	Metabolomic analysis of polar metabolites in lipoprotein fractions identifies lipoprotein-specific metabolic profiles and their association with insulin resistance. <i>Molecular BioSystems</i> , <b>2012</b> , 8, 2559-65		11
39	Study on capillaries covalently bound with phospholipid vesicles for open-tubular capillary electrochromatography and application to on-line open-tubular capillary electrochromatography-mass spectrometry. <i>Electrophoresis</i> , <b>2013</b> , 34, 3180-8	3.6	11
38	Dynamic coating of SU-8 microfluidic chips with phospholipid disks. <i>Electrophoresis</i> , <b>2010</b> , 31, 2566-74	3.6	11
37	Physical Properties of 7-Methyl-1,5,7-triazabicyclo[4.4.0]dec-5-ene (mTBD). <i>International Journal of Thermophysics</i> , <b>2019</b> , 40, 1	2.1	10
36	Pure Glaucoma Drugs Are Toxic to Immortalized Human Corneal Epithelial Cells, but They Do Not Destabilize Lipid Membranes. <i>Cornea</i> , <b>2017</b> , 36, 1249-1255	3.1	10
35	WtF-Nano: One-Pot Dewatering and Water-Free Topochemical Modification of Nanocellulose in Ionic Liquids or $\gamma$ -Valerolactone. <i>ChemSusChem</i> , <b>2017</b> , 10, 4879-4890	8.3	10
34	Phospholipids covalently attached to silica particles as stationary phase in nano-liquid chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2012</b> , 71, 1-10	3.5	10
33	Cationic poly(methacryl oxyethyl trimethylammonium) and its poly(ethylene glycol)-grafted analogue as capillary coating materials in electrophoresis. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2007</b> , 45, 2655-2663	2.6	10
32	Ionic liquids affect the adsorption of liposomes onto cationic polyelectrolyte coated silica evidenced by quartz crystal microbalance. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2015</b> , 136, 496-505	6	9
31	The structure of <i>Lactobacillus brevis</i> surface layer reassembled on liposomes differs from native structure as revealed by SAXS. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2014</b> , 1838, 2099-104	3.8	9
30	Temperature-induced structural transition in-situ in porcine lens--changes observed in void size distribution. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2010</b> , 1798, 958-65	3.8	9
29	Comprehensive two-dimensional field-flow fractionation-liquid chromatography in the analysis of large molecules. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 3091-8	7.8	9
28	Nanoplasmonic Sensing and Capillary Electrophoresis for Fast Screening of Interactions between Phosphatidylcholine Biomembranes and Surfactants. <i>Langmuir</i> , <b>2018</b> , 34, 5889-5900	4	8



27	Novel, dynamic on-line analytical separation system for dissolution of drugs from poly(lactic acid) nanoparticles. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2010</b> , 51, 125-30	3.5	8
26	Vapor-Liquid Equilibrium of Ionic Liquid 7-Methyl-1,5,7-triazabicyclo[4.4.0]dec-5-enium Acetate and Its Mixtures with Water. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2020</b> , 65, 2405-2421	2.8	7
25	In vitro and in vivo entrapment of bupivacaine by lipid dispersions. <i>Journal of Chromatography A</i> , <b>2012</b> , 1254, 125-31	4.5	7
24	In vitro capturing of various lipophilic illicit drugs by lipid dispersions. An electrokinetic capillary chromatography and fluorescence polarization study. <i>European Journal of Pharmaceutical Sciences</i> , <b>2010</b> , 41, 515-22	5.1	7
23	A systematic review of 3D printing in chemistry education: Analysis of earlier research and educational use through technological pedagogical content knowledge framework. <i>Chemistry Teacher International</i> , <b>2019</b> ,	1	7
22	Interactions of Ionic Liquids and Spirocyclic Compounds with Liposome Model Membranes. A Steady-State Fluorescence Anisotropy Study. <i>Scientific Reports</i> , <b>2019</b> , 9, 18349	4.9	7
21	Distribution of local anesthetics between aqueous and liposome phases. <i>Journal of Chromatography A</i> , <b>2017</b> , 1479, 194-203	4.5	6
20	Determination of distribution constants of antioxidants by electrokinetic chromatography. <i>Cogent Chemistry</i> , <b>2017</b> , 3, 1385173	2.5	6
19	Novel cationic polyelectrolyte coatings for capillary electrophoresis. <i>Electrophoresis</i> , <b>2016</b> , 37, 363-71	3.6	6
18	Polyethylenimine-modified metal oxides for fabrication of packed capillary columns for capillary electrochromatography and capillary liquid chromatography. <i>Journal of Chromatography A</i> , <b>2011</b> , 1218, 5020-9	4.5	6
17	Determination of nonylphenol and nonylphenol ethoxylates in wastewater using MEKC. <i>Journal of Separation Science</i> , <b>2009</b> , 32, 2109-16	3.4	6
16	Comparison of lipid sinks in sequestering common intoxicating drugs. <i>Journal of Separation Science</i> , <b>2012</b> , 35, 3106-12	3.4	5
15	MIXED MICELLES OF SDS AND SODIUM CHOLATE. A NUCLEAR MAGNETIC RESONANCE DIFFUSION AND RELAXATION STUDY. <i>Journal of Dispersion Science and Technology</i> , <b>2000</b> , 21, 209-227	1.5	5
14	Calcium Dependent Reversible Aggregation of Escherichia coli Biomimicking Vesicles Enables Formation of Supported Vesicle Layers on Silicon Dioxide. <i>Frontiers in Materials</i> , <b>2019</b> , 6,	4	3
13	Chromatographic lipid profiling of stress-exposed cells. <i>Journal of Separation Science</i> , <b>2012</b> , 35, 1845-53	3.4	3
12	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. <i>Analyst, The</i> , <b>2000</b> , 125, 185-190	5	3
11	A combined targeted/untargeted LC-MS/MS-based screening approach for mammalian cell lines treated with ionic liquids: Toxicity correlates with metabolic profile. <i>Talanta</i> , <b>2019</b> , 197, 472-481	6.2	2
10	Stabilization of phosphatidylcholine coatings in capillary electrophoresis by increase in membrane rigidity. <i>Journal of Chromatography A</i> , <b>2004</b> , 1051, 61-8	4.5	2

9	Assessing the Interactions of Auristatin Derivatives with Mixed Phospholipid-Sodium Dodecyl Sulfate Aggregate Dispersions. <i>Langmuir</i> , <b>2019</b> , 35, 5232-5240	4	1
8	CE and asymmetrical flow-field flow fractionation studies of polymer interactions with surfaces and solutes reveal conformation changes of polymers. <i>Journal of Separation Science</i> , <b>2020</b> , 43, 2495-2505	3-4	1
7	Capillary electrochromatography <b>2017</b> , 697-718		1
6	Characterization of Liposomes by FFF <b>2012</b> , 207-221		1
5	Theoretical background on semiconducting polymers and their applications to OSCs and OLEDs. <i>Chemistry Teacher International</i> , <b>2021</b> , 3, 169-183	1	1
4	Characterization and applications of a trioctyl(3/4-vinylbenzyl)phosphonium stationary phase for use in capillary liquid chromatography.. <i>Journal of Chromatography A</i> , <b>2022</b> , 1666, 462866	4-5	○
3	Immobilization of natural lipid biomembranes and their interactions with choline carboxylates. A nanoplasmonic sensing study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2020</b> , 1862, 183115	3.8	○
2	Relevant biological interactions biomimicked by capillary electromigration techniques. <i>Journal of Chromatography Open</i> , <b>2021</b> , 1, 100020		○
1	Determination of N-methyl-2-pyrrolidone and its metabolites in urine by micellar electrokinetic chromatography. <i>Open Chemistry</i> , <b>2011</b> , 9, 825-833	1.6	