Susanne Wiedmer

List of Publications by Year in Descending Order

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	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	4.5	0
115	Theoretical background on semiconducting polymers and their applications to OSCs and OLEDs. *Chemistry Teacher International*, **2021**, 3, 169-183	1	1
114	Relevant biological interactions biomimicked by capillary electromigration techniques. *Journal of Chromatography Open*, **2021**, 1, 100020		0
113	Vapor–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	2.8	7
112	CE and asymmetrical flow-field flow fractionation studies of polymer interactions with surfaces and solutes reveal conformation changes of polymers. *Journal of Separation Science*, **2020**, 43, 2495-2505	3.4	1
111	Immobilization of natural lipid biomembranes and their interactions with choline carboxylates. A nanoplasmonic sensing study. *Biochimica Et Biophysica Acta - Biomembranes*, **2020**, 1862, 183115	3.8	0
110	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	8.3	20
109	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	6.2	2
108	Immobilization of proteolytic enzymes on replica-molded thiol-ene micropillar reactors via thiol-gold interaction. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 2339-2349	4.4	12
107	Assessing the Interactions of Auristatin Derivatives with Mixed Phospholipid-Sodium Dodecyl Sulfate Aggregate Dispersions. *Langmuir*, **2019**, 35, 5232-5240	4	1
106	Calcium Dependent Reversible Aggregation of Escherichia coli Biomimicking Vesicles Enables Formation of Supported Vesicle Layers on Silicon Dioxide. *Frontiers in Materials*, **2019**, 6,	4	3
105	Physical Properties of 7-Methyl-1,5,7-triazabicyclo[4.4.0]dec-5-ene (mTBD). *International Journal of Thermophysics*, **2019**, 40, 1	2.1	10
104	A systematic review of 3D printing in chemistry education – analysis of earlier research and educational use through technological pedagogical content knowledge framework. *Chemistry Teacher International*, **2019**,	1	7
103	Interactions of Ionic Liquids and Spirocyclic Compounds with Liposome Model Membranes. A Steady-State Fluorescence Anisotropy Study. *Scientific Reports*, **2019**, 9, 18349	4.9	7
102	Hydrophilic Monomethyl Auristatin E Derivatives as Novel Candidates for the Design of Antibody-Drug Conjugates. *Separations*, **2019**, 6, 1	3.1	15
101	Immobilization of a phosphonium ionic liquid on a silica monolith for hydrophilic interaction chromatography. *Journal of Chromatography A*, **2018**, 1552, 53-59	4.5	18
100	Correlation between Ionic Liquid Cytotoxicity and Liposome-Ionic Liquid Interactions. *Chemistry - A European Journal*, **2018**, 24, 2669-2680	4.8	30

99	Nanoplasmonic Sensing and Capillary Electrophoresis for Fast Screening of Interactions between Phosphatidylcholine Biomembranes and Surfactants. *Langmuir*, **2018**, 34, 5889-5900	4	8
98	Determination of the Main Phase Transition Temperature of Phospholipids by Nanoplasmonic Sensing. *Scientific Reports*, **2018**, 8, 14815	4.9	40
97	Unraveling Interactions between Ionic Liquids and Phospholipid Vesicles Using Nanoplasmonic Sensing. *Langmuir*, **2017**, 33, 1066-1076	4	29
96	Impact of Surface-Active Guanidinium-, Tetramethylguanidinium-, and Cholinium-Based Ionic Liquids on Vibrio Fischeri Cells and Dipalmitoylphosphatidylcholine Liposomes. *Scientific Reports*, **2017**, 7, 46673	4.9	27
95	Distribution of local anesthetics between aqueous and liposome phases. *Journal of Chromatography A*, **2017**, 1479, 194-203	4.5	6
94	Determination of distribution constants of antioxidants by electrokinetic chromatography. *Cogent Chemistry*, **2017**, 3, 1385173	2.5	6
93	Pure Glaucoma Drugs Are Toxic to Immortalized Human Corneal Epithelial Cells, but They Do Not Destabilize Lipid Membranes. *Cornea*, **2017**, 36, 1249-1255	3.1	10
92	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	3.8	15
91	Adsorption of Proteins on Colloidal Lignin Particles for Advanced Biomaterials. *Biomacromolecules*, **2017**, 18, 2767-2776	6.9	53
90	Capillary electrochromatography **2017**, 697-718		1
89	WtF-Nano: One-Pot Dewatering and Water-Free Topochemical Modification of Nanocellulose in Ionic Liquids or Valerolactone. *ChemSusChem*, **2017**, 10, 4879-4890	8.3	10
88	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	3.7	26
87	Novel cationic polyelectrolyte coatings for capillary electrophoresis. *Electrophoresis*, **2016**, 37, 363-71	3.6	6
86	Effect of Ionic Liquids on Zebrafish (Danio rerio) Viability, Behavior, and Histology; Correlation between Toxicity and Ionic Liquid Aggregation. *Environmental Science & Technology*, **2016**, 50, 7116-25	10.3	62
85	Monoliths in capillary electrochromatography and capillary liquid chromatography in conjunction with mass spectrometry. *Electrophoresis*, **2016**, 37, 880-912	3.6	23
84	Continuous process for selective metal extraction with an ionic liquid. *Chemical Engineering Research and Design*, **2016**, 109, 553-560	5.5	27
83	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	4.5	12
82	Effect of ionic liquids on the interaction between liposomes and common wastewater pollutants investigated by capillary electrophoresis. *Journal of Chromatography A*, **2015**, 1405, 178-87	4.5	16

81	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	6	9
80	Impact of amphiphilic biomass-dissolving ionic liquids on biological cells and liposomes. *Environmental Science & Technology*, **2015**, 49, 1870-8	10.3	65
79	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, 90-6	4.5	30
78	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, 2099-104	3.8	9
77	Capillary electromigration techniques for studying interactions between analytes and lipid dispersions. *Journal of Separation Science*, **2013**, 36, 37-51	3.4	20
76	Silica-based monolithic capillary columns modified by liposomes for characterization of analyte-liposome interactions by capillary liquid chromatography. *Journal of Chromatography A*, **2013**, 1317, 159-66	4.5	20
75	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, 144-51	4.5	12
74	Comparative method evaluation for size and size-distribution analysis of gold nanoparticles. *Journal of Separation Science*, **2013**, 36, 2952-61	3.4	68
73	Study on capillaries covalently bound with phospholipid vesicles for open-tubular capillary electrochromatography and application to on-line open-tubular capillary electrochromatography-mass spectrometry. *Electrophoresis*, **2013**, 34, 3180-8	3.6	11
72	Melting points--the key to the anti-evaporative effect of the tear film wax esters **2013**, 54, 5211-7		33
71	Comparison of lipid sinks in sequestering common intoxicating drugs. *Journal of Separation Science*, **2012**, 35, 3106-12	3.4	5
70	Phospholipids covalently attached to silica particles as stationary phase in nano-liquid chromatography. *Journal of Pharmaceutical and Biomedical Analysis*, **2012**, 71, 1-10	3.5	10
69	Metabolomic analysis of polar metabolites in lipoprotein fractions identifies lipoprotein-specific metabolic profiles and their association with insulin resistance. *Molecular BioSystems*, **2012**, 8, 2559-65		11
68	Phosphonium-based ionic liquids in electrokinetic capillary chromatography for the separation of neutral analytes. *Journal of Chromatography A*, **2012**, 1253, 171-6	4.5	19
67	In vitro and in vivo entrapment of bupivacaine by lipid dispersions. *Journal of Chromatography A*, **2012**, 1254, 125-31	4.5	7
66	Chromatographic lipid profiling of stress-exposed cells. *Journal of Separation Science*, **2012**, 35, 1845-53	3.4	3
65	Characterization of Liposomes by FFF **2012**, 207-221		1
64	Covalent binding of phospholipid vesicles on fused silica capillaries for electrochromatography. *Soft Matter*, **2011**, 7, 6041	3.6	14

63	Hydrophilic interaction liquid chromatography in food analysis. *Journal of Chromatography A*, **2011**, 1218, 7438-52	4.5	96
62	Determination of N-methyl-2-pyrrolidone and its metabolites in urine by micellar electrokinetic chromatography. *Open Chemistry*, **2011**, 9, 825-833	1.6	
61	Polyethylenimine-modified metal oxides for fabrication of packed capillary columns for capillary electrochromatography and capillary liquid chromatography. *Journal of Chromatography A*, **2011**, 1218, 5020-9	4.5	6
60	Spatial distribution of glycerophospholipids in the ocular lens. *PLoS ONE*, **2011**, 6, e19441	3.7	19
59	Visualizing spatial lipid distribution in porcine lens by MALDI imaging high-resolution mass spectrometry. *Journal of Lipid Research*, **2010**, 51, 2295-302	6.3	46
58	Molecular organization of the tear fluid lipid layer. *Biophysical Journal*, **2010**, 99, 2559-67	2.9	59
57	Temperature-induced structural transition in-situ in porcine lens--changes observed in void size distribution. *Biochimica Et Biophysica Acta - Biomembranes*, **2010**, 1798, 958-65	3.8	9
56	Interaction of a commercial lipid dispersion and local anesthetics in human plasma: implications for drug trapping by "lipid-sinks". *Analytical and Bioanalytical Chemistry*, **2010**, 396, 2599-607	4.4	30
55	Novel, dynamic on-line analytical separation system for dissolution of drugs from poly(lactic acid) nanoparticles. *Journal of Pharmaceutical and Biomedical Analysis*, **2010**, 51, 125-30	3.5	8
54	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, 515-22	5.1	7
53	Liposomes for entrapping local anesthetics: a liposome electrokinetic chromatographic study. *Electrophoresis*, **2010**, 31, 1540-9	3.6	17
52	Dynamic coating of SU-8 microfluidic chips with phospholipid disks. *Electrophoresis*, **2010**, 31, 2566-74	3.6	11
51	Marker compounds for the determination of retention factors in EKC. *Journal of Separation Science*, **2010**, 33, 394-409	3.4	17
50	Thermal aggregation of bovine serum albumin studied by asymmetrical flow field-flow fractionation. *Analytica Chimica Acta*, **2010**, 675, 191-8	6.6	80
49	Liposomes in capillary electromigration techniques. *Electrophoresis*, **2009**, 30 Suppl 1, S240-57	3.6	30
48	Determination of nonylphenol and nonylphenol ethoxylates in wastewater using MEKC. *Journal of Separation Science*, **2009**, 32, 2109-16	3.4	6
47	Interactions between local anesthetics and lipid dispersions studied with liposome electrokinetic capillary chromatography. *Journal of Chromatography A*, **2009**, 1216, 3392-7	4.5	27
46	Ceramide-1-phosphate, in contrast to ceramide, is not segregated into lateral lipid domains in phosphatidylcholine bilayers. *Biophysical Journal*, **2009**, 96, 2216-26	2.9	18

45	Antibiotic fusidic acid has strong interactions with negatively charged lipid membranes: an electrokinetic capillary chromatographic study. *Biochimica Et Biophysica Acta - Biomembranes*, **2008**, 1778, 2640-7	3.8	15
44	Liposome electrokinetic capillary chromatography in the study of analyte-phospholipid membrane interactions. Application to pesticides and related compounds. *Journal of Separation Science*, **2008**, 31, 2714-21	3.4	21
43	Characterization of phosphatidylcholine/polyethylene glycol-lipid aggregates and their use as coatings and carriers in capillary electrophoresis. *Electrophoresis*, **2008**, 29, 852-62	3.6	20
42	Phospholipid-protein coatings for chiral capillary electrochromatography. *Analytical Biochemistry*, **2008**, 373, 26-33	3.1	33
41	Interactions of fusidic acid and elongation factor G with lipid membranes. *Analytical Biochemistry*, **2008**, 374, 133-42	3.1	17
40	Quantitative determination of drug encapsulation in poly(lactic acid) nanoparticles by capillary electrophoresis. *Journal of Chromatography A*, **2008**, 1178, 248-55	4.5	28
39	Comprehensive two-dimensional field-flow fractionation-liquid chromatography in the analysis of large molecules. *Analytical Chemistry*, **2007**, 79, 3091-8	7.8	9
38	Interfacial and lipid transfer properties of human phospholipid transfer protein: implications for the transfer mechanism of phospholipids. *Biochemistry*, **2007**, 46, 1312-9	3.2	20
37	Anionic phospholipid coatings in capillary electrochromatography. Binding of Ca2+ to phospholipid phosphate group. *Journal of Chromatography A*, **2007**, 1150, 339-47	4.5	18
36	Cationic poly(methacryl oxyethyl trimethylammonium) and its poly(ethylene glycol)-grafted analogue as capillary coating materials in electrophoresis. *Journal of Polymer Science, Part B: Polymer Physics*, **2007**, 45, 2655-2663	2.6	10
35	Structure of anionic phospholipid coatings on silica by dissipative quartz crystal microbalance. *Langmuir*, **2007**, 23, 609-18	4	66
34	Immobilization of phospholipid-avidin on fused-silica capillaries for chiral separation in open-tubular capillary electrochromatography. *Electrophoresis*, **2006**, 27, 1502-9	3.6	30
33	Cholesterol-rich membrane coatings for interaction studies in capillary electrophoresis: application to red blood cell lipid extracts. *Electrophoresis*, **2006**, 27, 3988-98	3.6	19
32	Interaction of fusidic acid with lipid membranes: Implications to the mechanism of antibiotic activity. *Biophysical Journal*, **2006**, 91, 1787-99	2.9	19
31	Miniaturization of asymmetrical flow field-flow fractionation and application to studies on lipoprotein aggregation and fusion. *Analytical Biochemistry*, **2006**, 354, 255-65	3.1	40
30	Stability of phospholipid vesicles studied by asymmetrical flow field-flow fractionation and capillary electrophoresis. *Analytica Chimica Acta*, **2006**, 560, 50-56	6.6	33
29	Cationic lipid vesicles as coating precursors in capillary electrochromatography: separation of basic proteins and neutral steroids. *Journal of Chromatography A*, **2006**, 1119, 163-9	4.5	27
28	Human low-density lipoprotein-coated capillaries in electrochromatography. *Analytical Chemistry*, **2005**, 77, 3401-5	7.8	27

27	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	6.6	18
26	Small diamines as modifiers for phosphatidylcholine/phosphatidylserine coatings in capillary electrochromatography. *Journal of Chromatography A*, **2005**, 1081, 92-8	4.5	17
25	Influence of pH on formation and stability of phosphatidylcholine/phosphatidylserine coatings in fused-silica capillaries. *Electrophoresis*, **2005**, 26, 176-86	3.6	25
24	Piperazine-based buffers for liposome coating of capillaries for electrophoresis. *Electrophoresis*, **2005**, 26, 1920-7	3.6	37
23	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, 1769-76	4.4	28
22	Influence of cetyltrimethylammonium bromide on phosphatidylcholine-coated capillaries. *Analytical and Bioanalytical Chemistry*, **2004**, 380, 293-302	4.4	19
21	Cytochrome c-dimyristoylphosphatidylglycerol interactions studied by asymmetrical flow field-flow fractionation. *Analytical and Bioanalytical Chemistry*, **2004**, 380, 757-66	4.4	17
20	Phospholipid-lysozyme coating for chiral separation in capillary electrophoresis. *Electrophoresis*, **2004**, 25, 1784-91	3.6	34
19	Stabilization of phosphatidylcholine coatings in capillary electrophoresis by increase in membrane rigidity. *Journal of Chromatography A*, **2004**, 1051, 61-68	4.5	31
18	Phospholipids and liposomes in liquid chromatographic and capillary electromigration techniques. *TrAC - Trends in Analytical Chemistry*, **2004**, 23, 562-582	14.6	61
17	Stabilization of phosphatidylcholine coatings in capillary electrophoresis by increase in membrane rigidity. *Journal of Chromatography A*, **2004**, 1051, 61-68	4.5	20
16	Stabilization of phosphatidylcholine coatings in capillary electrophoresis by increase in membrane rigidity. *Journal of Chromatography A*, **2004**, 1051, 61-8	4.5	2
15	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, 884-9	4.4	20
14	Simple coating of capillaries with anionic liposomes in capillary electrophoresis. *Journal of Chromatography A*, **2003**, 1004, 81-90	4.5	59
13	Cholesterol-containing phosphatidylcholine liposomes: Characterization and use as dispersed phase in electrokinetic capillary chromatography. *Journal of Separation Science*, **2002**, 25, 427-437	3.4	39
12	Study on liposomes by capillary electrophoresis. *Electrophoresis*, **2001**, 22, 1305-13	3.6	73
11	Determination of iridoid glycosides by micellar electrokinetic capillary chromatography-mass spectrometry with use of the partial filling technique. *Electrophoresis*, **2001**, 22, 2580-7	3.6	25
10	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. *Journal of Chromatography A*, **2001**, 927, 191-202	4.5	49

9	Liposomes as carriers in electrokinetic capillary chromatography. *Electrophoresis*, **2000**, 21, 3191-8	3.6	56
8	Electrophoretic studies of polygalacturonate oligomers and their interactions with metal ions. *Electrophoresis*, **2000**, 21, 3212-9	3.6	28
7	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	1.5	5
6	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	5	3
5	On-line partial filling micellar electrokinetic capillary chromatography-electrospray ionization-mass spectrometry of corticosteroids. *Electrophoresis*, **1998**, 19, 1711-8	3.6	27
4	Mixed Micelles of Sodium Dodecyl Sulfate and Sodium Cholate: Micellar Electrokinetic Capillary Chromatography and Nuclear Magnetic Resonance Spectroscopy. *Analytical Chemistry*, **1997**, 69, 1577-1584	7.8	42
3	Determination of serum corticosteroids by mixed micellar electrokinetic capillary chromatography with sodium dodecyl sulfate and sodium cholate. *Electrophoresis*, **1997**, 18, 1861-4	3.6	29
2	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, 1931-7	3.6	21
1	Optimized separation of seven corticosteroids by micellar electrokinetic chromatography. *Electrophoresis*, **1994**, 15, 1267-72	3.6	37