

Astrid Gjelstad

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

1,888
citations

24
h-index

43
g-index

49
ext. papers

2,062
ext. citations

4.4
avg, IF

5.17
L-index

#	Paper	IF	Citations
47	Electrokinetic migration across artificial liquid membranes Tuning the membrane chemistry to different types of drug substances. <i>Journal of Chromatography A</i> , 2006 , 1124, 29-34	4.5	196
46	Simulation of flux during electro-membrane extraction based on the Nernst-Planck equation. <i>Journal of Chromatography A</i> , 2007 , 1174, 104-11	4.5	187
45	Microextraction across supported liquid membranes forced by pH gradients and electrical fields. <i>Journal of Chromatography A</i> , 2007 , 1157, 38-45	4.5	143
44	Electromembrane extraction of basic drugs from untreated human plasma and whole blood under physiological pH conditions. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 393, 921-8	4.4	122
43	Recent developments in electromembrane extraction. <i>Analytical Methods</i> , 2013 , 5, 4549-4557	3.2	84
42	Kinetic aspects of hollow fiber liquid-phase microextraction and electromembrane extraction. <i>Analytica Chimica Acta</i> , 2012 , 742, 10-6	6.6	75
41	Electromembrane extraction: a new technique for accelerating bioanalytical sample preparation. <i>Bioanalysis</i> , 2011 , 3, 787-97	2.1	68
40	Development of a flat membrane based device for electromembrane extraction: a new approach for exhaustive extraction of basic drugs from human plasma. <i>Journal of Chromatography A</i> , 2014 , 1326, 7-12	4.5	66
39	Electromembrane extraction-Recent trends and where to go. <i>Journal of Pharmaceutical Analysis</i> , 2017 , 7, 141-147	14	58
38	Electromembrane extraction for pharmaceutical and biomedical analysis - Quo vadis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 113, 97-107	3.5	57
37	Organic solvents in electromembrane extraction: recent insights. <i>Reviews in Analytical Chemistry</i> , 2016 , 35, 169-183	2.3	51
36	Electromembrane extraction of polar basic drugs from plasma with pure bis(2-ethylhexyl) phosphite as supported liquid membrane. <i>Analytica Chimica Acta</i> , 2016 , 934, 80-7	6.6	45
35	Exhaustive extraction of peptides by electromembrane extraction. <i>Analytica Chimica Acta</i> , 2015 , 853, 328-334	6.6	43
34	Electromembrane extraction--three-phase electrophoresis for future preparative applications. <i>Electrophoresis</i> , 2014 , 35, 2421-8	3.6	43
33	Parallel artificial liquid membrane extraction: micro-scale liquid-liquid-liquid extraction in the 96-well format. <i>Bioanalysis</i> , 2013 , 5, 1377-85	2.1	42
32	Combination of Electromembrane Extraction and Liquid-Phase Microextraction in a Single Step: Simultaneous Group Separation of Acidic and Basic Drugs. <i>Analytical Chemistry</i> , 2015 , 87, 6951-7	7.8	40
31	Alginate and chitosan foam combined with electromembrane extraction for dried blood spot analysis. <i>Analytical Chemistry</i> , 2012 , 84, 8783-9	7.8	40

30	Electromembrane extraction with alkylated phosphites and phosphates as supported liquid membranes. <i>Journal of Membrane Science</i> , 2017 , 526, 18-24	9.6	37
29	Parallel electromembrane extraction in the 96-well format. <i>Analytica Chimica Acta</i> , 2014 , 828, 46-52	6.6	36
28	Exhaustive and stable electromembrane extraction of acidic drugs from human plasma. <i>Journal of Chromatography A</i> , 2015 , 1425, 81-7	4.5	35
27	Comprehensive study of buffer systems and local pH effects in electromembrane extraction. <i>Analytica Chimica Acta</i> , 2017 , 984, 116-123	6.6	31
26	Mass transfer in electromembrane extraction--The link between theory and experiments. <i>Journal of Separation Science</i> , 2016 , 39, 188-97	3.4	27
25	Oral fluid drug analysis in the age of new psychoactive substances. <i>Bioanalysis</i> , 2016 , 8, 691-710	2.1	25
24	Investigation of alternative supported liquid membranes in electromembrane extraction of basic drugs from human plasma. <i>Journal of Membrane Science</i> , 2018 , 548, 176-183	9.6	25
23	Storage of oral fluid as dried spots on alginate and chitosan foam - a new concept for oral fluid collection. <i>Bioanalysis</i> , 2013 , 5, 317-25	2.1	24
22	Salt effects in electromembrane extraction. <i>Journal of Chromatography A</i> , 2014 , 1347, 1-7	4.5	23
21	Water-Soluble Dried Blood Spot in Protein Analysis: A Proof-of-Concept Study. <i>Analytical Chemistry</i> , 2015 , 87, 7918-24	7.8	20
20	Parallel artificial liquid membrane extraction of new psychoactive substances in plasma and whole blood. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017 , 1048, 77-84	3.2	19
19	Rapid determination of designer benzodiazepines, benzodiazepines, and Z-hypnotics in whole blood using parallel artificial liquid membrane extraction and UHPLC-MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 4967-4978	4.4	19
18	Complexation-mediated electromembrane extraction of highly polar basic drugs-a fundamental study with catecholamines in urine as model system. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 4215-4223	4.4	18
17	Micro-electromembrane extraction using multiple free liquid membranes and acceptor solutions - Towards selective extractions of analytes based on their acid-base strength. <i>Analytica Chimica Acta</i> , 2016 , 943, 64-73	6.6	18
16	Efficient discrimination and removal of phospholipids during electromembrane extraction from human plasma samples. <i>Bioanalysis</i> , 2017 , 9, 631-641	2.1	17
15	Electromembrane extraction as a rapid and selective miniaturized sample preparation technique for biological fluids. <i>Bioanalysis</i> , 2015 , 7, 2203-9	2.1	16
14	Liquid-phase microextraction in 96-well plates - calibration and accurate quantification of pharmaceuticals in human plasma samples. <i>Journal of Chromatography A</i> , 2019 , 1602, 117-123	4.5	16
13	Parallel artificial liquid membrane extraction as an efficient tool for removal of phospholipids from human plasma. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 129, 229-236	3.5	16

12	Dried blood spots and parallel artificial liquid membrane extraction-A simple combination of microsampling and microextraction. <i>Analytica Chimica Acta</i> , 2018 , 1009, 56-64	6.6	14
11	Volumetric absorptive MicroSampling vs. other blood sampling materials in LC-MS-based protein analysis - preliminary investigations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 156, 239-245	2.5	14
10	Evaluation of water-soluble DBS for small proteins: a conceptual study using insulin as a model analyte. <i>Bioanalysis</i> , 2016 , 8, 1051-65	2.1	11
9	Electromembrane extraction of substances with weakly basic properties: a fundamental study with benzodiazepines. <i>Bioanalysis</i> , 2018 , 10, 769-781	2.1	11
8	Parallel artificial liquid membrane extraction of psychoactive analytes: a novel approach in therapeutic drug monitoring. <i>Bioanalysis</i> , 2018 , 10, 385-395	2.1	10
7	Electromembrane extraction with solvent modification of the acceptor solution: improved mass transfer of drugs of abuse from human plasma. <i>Bioanalysis</i> , 2019 , 11, 755-771	2.1	10
6	One-step extraction of polar drugs from plasma by parallel artificial liquid membrane extraction. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017 , 1043, 25-32	3.2	10
5	Determination of the low-abundant protein biomarker hCG from dried matrix spots using immunocapture and nano liquid chromatography mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018 , 1077-1078, 44-51	3.2	9
4	Expanding the knowledge on dried blood spots and LC-MS-based protein analysis: two different sampling materials and six protein targets. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 3383-3392	4.4	4
3	Sample Preparation 2015 , 73-122		3
2	Sample extraction techniques for biological samples: recent advances and novel applications. <i>Bioanalysis</i> , 2015 , 7, 2133-4	2.1	3
1	Dried Blood Spots on Carboxymethyl Cellulose Sheets: Rapid Sample Preparation Based on Dissolution and Precipitation. <i>Chromatographia</i> , 2016 , 79, 509-514	2.1	2