

Anneli Kruve-Viil

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.

60
papers

1,891
citations

23
h-index

42
g-index

63
ext. papers

2,260
ext. citations

4.7
avg, IF

5.46
L-index

#	Paper	IF	Citations
60	Matrix effects in pesticide multi-residue analysis by liquid chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2008 , 1187, 58-66	4.5	235
59	Electrospray ionization efficiency scale of organic compounds. <i>Analytical Chemistry</i> , 2010 , 82, 2865-72	7.8	194
58	Tutorial review on validation of liquid chromatography-mass spectrometry methods: part I. <i>Analytica Chimica Acta</i> , 2015 , 870, 29-44	6.6	161
57	Tutorial review on validation of liquid chromatography-mass spectrometry methods: part II. <i>Analytica Chimica Acta</i> , 2015 , 870, 8-28	6.6	146
56	Combating matrix effects in LC/ESI/MS: the extrapolative dilution approach. <i>Analytica Chimica Acta</i> , 2009 , 651, 75-80	6.6	86
55	Sodium adduct formation efficiency in ESI source. <i>Journal of Mass Spectrometry</i> , 2013 , 48, 695-702	2.2	83
54	Negative electrospray ionization via deprotonation: predicting the ionization efficiency. <i>Analytical Chemistry</i> , 2014 , 86, 4822-30	7.8	81
53	Towards the electrospray ionization mass spectrometry ionization efficiency scale of organic compounds. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 379-84	2.2	63
52	Adduct Formation in ESI/MS by Mobile Phase Additives. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 887-894	3.5	48
51	Effect of mobile phase on electrospray ionization efficiency. <i>Journal of the American Society for Mass Spectrometry</i> , 2014 , 25, 1853-61	3.5	46
50	Think Negative: Finding the Best Electrospray Ionization/MS Mode for Your Analyte. <i>Analytical Chemistry</i> , 2017 , 89, 5665-5668	7.8	45
49	pH Effects on Electrospray Ionization Efficiency. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 461-469	3.5	39
48	Comparison of different methods aiming to account for/overcome matrix effects in LC/ESI/MS on the example of pesticide analyses. <i>Analytical Methods</i> , 2013 , 5, 3035	3.2	39
47	Quantification for non-targeted LC/MS screening without standard substances. <i>Scientific Reports</i> , 2020 , 10, 5808	4.9	39
46	Paper spray ionization mass spectrometry: Study of a method for fast-screening analysis of pesticides in fruits and vegetables. <i>Journal of Food Composition and Analysis</i> , 2015 , 41, 221-225	4.1	37
45	Tutorial on estimating the limit of detection using LC-MS analysis, part I: Theoretical review. <i>Analytica Chimica Acta</i> , 2016 , 942, 23-39	6.6	34
44	Imine-based [2]catenanes in water. <i>Chemical Science</i> , 2018 , 9, 1317-1322	9.4	32

43	Unified pH values of liquid chromatography mobile phases. <i>Analytical Chemistry</i> , 2015 , 87, 2623-30	7.8	30
42	Ion-Mobility Mass Spectrometry for the Rapid Determination of the Topology of Interlocked and Knotted Molecules. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11324-11328	16.4	28
41	Influence of mobile phase, source parameters and source type on electrospray ionization efficiency in negative ion mode. <i>Journal of Mass Spectrometry</i> , 2016 , 51, 596-601	2.2	28
40	Optimization of electrospray interface and quadrupole ion trap mass spectrometer parameters in pesticide liquid chromatography/electrospray ionization mass spectrometry analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2010 , 24, 919-26	2.2	27
39	Predicting ESI/MS Signal Change for Anions in Different Solvents. <i>Analytical Chemistry</i> , 2017 , 89, 5079-5085	7.8	23
38	Feasibility of capillary liquid chromatography-microchip-atmospheric pressure photoionization-mass spectrometry for pesticide analysis in tomato. <i>Analytica Chimica Acta</i> , 2011 , 696, 77-83	6.6	21
37	Transferability of the electrospray ionization efficiency scale between different instruments. <i>Journal of the American Society for Mass Spectrometry</i> , 2015 , 26, 1923-30	3.5	20
36	Study of liquid chromatography/electrospray ionization mass spectrometry matrix effect on the example of glyphosate analysis from cereals. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 3252-8	2.2	20
35	Establishing Atmospheric Pressure Chemical Ionization Efficiency Scale. <i>Analytical Chemistry</i> , 2016 , 88, 3435-9	7.8	19
34	Accounting for matrix effects of pesticide residue liquid chromatography/electrospray ionisation mass spectrometric determination by treatment of background mass spectra with chemometric tools. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 1159-68	2.2	17
33	Semi-quantitative non-target analysis of water with liquid chromatography/high-resolution mass spectrometry: How far are we?. <i>Rapid Communications in Mass Spectrometry</i> , 2019 , 33 Suppl 3, 54-63	2.2	16
32	Determination of neonicotinoids in Estonian honey by liquid chromatography-electrospray mass spectrometry. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2016 , 51, 455-64	2.2	16
31	Standard substances free quantification makes LC/ESI/MS non-targeted screening of pesticides in cereals comparable between labs. <i>Food Chemistry</i> , 2020 , 318, 126460	8.5	15
30	Tutorial on estimating the limit of detection using LC-MS analysis, part II: Practical aspects. <i>Analytica Chimica Acta</i> , 2016 , 942, 40-49	6.6	15
29	Determination of glyphosate in surface water with high organic matter content. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 7880-7888	5.1	13
28	Benchmarking of the quantification approaches for the non-targeted screening of micropollutants and their transformation products in groundwater. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 1549-1559	4.4	13
27	The NORMAN Association and the European Partnership for Chemicals Risk Assessment (PARC): let's cooperate!. <i>Environmental Sciences Europe</i> , 2020 , 32,	5	12
26	Electrospray Ionization Matrix Effect as an Uncertainty Source in HPLC/ESI-MS Pesticide Residue Analysis. <i>Journal of AOAC INTERNATIONAL</i> , 2010 , 93, 306-314	1.7	11

25	Ionization efficiency ladders as tools for choosing ionization mode and solvent in liquid chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2019 , 33, 1834-1843	2.2	10
24	Influence of the amino acid composition on the ionization efficiencies of small peptides. <i>Journal of Mass Spectrometry</i> , 2019 , 54, 481-487	2.2	9
23	The Evolution of Electrospray Generated Droplets is Not Affected by Ionization Mode. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 2124-2131	3.5	9
22	Enhanced nebulization efficiency of electrospray mass spectrometry: improved sensitivity and detection limit. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 2051-4	3.5	9
21	Modifying the Acidity of Charged Droplets. <i>ChemistrySelect</i> , 2018 , 3, 335-338	1.8	8
20	Ionisation efficiencies can be predicted in complicated biological matrices: A proof of concept. <i>Analytica Chimica Acta</i> , 2018 , 1032, 68-74	6.6	7
19	Guide to Semi-Quantitative Non-Targeted Screening Using LC/ESI/HRMS. <i>Molecules</i> , 2021 , 26,	4.8	7
18	Ionization Efficiency of Doubly Charged Ions Formed from Polyprotic Acids in Electrospray Negative Mode. <i>Journal of the American Society for Mass Spectrometry</i> , 2016 , 27, 1211-8	3.5	6
17	30 Years of research on ESI/MS response: Trends, contradictions and applications. <i>Analytica Chimica Acta</i> , 2021 , 1152, 238117	6.6	6
16	ESI outcompetes other ion sources in LC/MS trace analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 3533-3542	4.4	4
15	Potassium iodide catalysis in the alkylation of protected hydrazines. <i>Proceedings of the Estonian Academy of Sciences</i> , 2017 , 66, 10	1.6	4
14	Quantitative and sensitive mapping of imidacloprid on plants using multiphoton electron extraction spectroscopy. <i>Chemical Physics</i> , 2018 , 514, 126-131	2.3	4
13	Ensuring repeatability and robustness of poly(glycidyl methacrylate-co-ethylene dimethacrylate) HPLC monolithic columns of 3 mm id through covalent bonding to the column wall. <i>Journal of Separation Science</i> , 2013 , 36, 2458-63	3.4	4
12	Risk-based prioritization of suspects detected in riverine water using complementary chromatographic techniques. <i>Water Research</i> , 2021 , 204, 117612	12.5	4
11	Characterization of wines with liquid chromatography electrospray ionization mass spectrometry: Quantification of amino acids via ionization efficiency values. <i>Journal of Chromatography A</i> , 2020 , 1620, 461012	4.5	3
10	Instrumental techniques in the analysis of natural red textile dyes. <i>Journal of Cultural Heritage</i> , 2020 , 42, 19-27	2.9	3
9	Anion-driven encapsulation of cationic guests inside pyridine[4]arene dimers. <i>Beilstein Journal of Organic Chemistry</i> , 2019 , 15, 2486-2492	2.5	2
8	Quantitative electrospray ionization efficiency scale: 10 years after. <i>Rapid Communications in Mass Spectrometry</i> , 2021 , 35, e9178	2.2	2

7	Electrospray ionization matrix effect as an uncertainty source in HPLC/ESI-MS pesticide residue analysis. <i>Journal of AOAC INTERNATIONAL</i> , 2010 , 93, 306-14	1.7	2
6	Measurement Science in Chemistry Consortium is a new force in analytical chemistry higher education in Europe. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 397, 1635-1637	4.4	1
5	MultiConditionRT: Predicting liquid chromatography retention time for emerging contaminants for a wide range of eluent compositions and stationary phases.. <i>Journal of Chromatography A</i> , 2022 , 1666, 462867	4.5	1
4	Machine Learning for Absolute Quantification of Unidentified Compounds in Non-Targeted LC/HRMS.. <i>Molecules</i> , 2022 , 27,	4.8	1
3	Sodium adduct formation with graph-based machine learning can aid structural elucidation in non-targeted LC/ESI/HRMS.. <i>Analytica Chimica Acta</i> , 2022 , 1204, 339402	6.6	1
2	Ion-Mobility Mass Spectrometry for the Rapid Determination of the Topology of Interlocked and Knotted Molecules. <i>Angewandte Chemie</i> , 2019 , 131, 11446	3.6	
1	Estimation of the concentrations of hydroxylated polychlorinated biphenyls in human serum using ionization efficiency prediction for electrospray.. <i>Analytical and Bioanalytical Chemistry</i> , 2022 , 1	4.4	