

Wilfried Niessen

List of Publications by Year in descending order

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39
papers

1,837
citations

430874

18
h-index

302126

39
g-index

39
all docs

39
docs citations

39
times ranked

2088
citing authors

#	ARTICLE	IF	CITATIONS
1	Matrix effects in quantitative pesticide analysis using liquid chromatographyâ€“mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2006, 25, 881-899.	5.4	385
2	Bioanalytical LCâ€“MS/MS of protein-based biopharmaceuticals. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 929, 161-179.	2.3	204
3	Progress in liquid chromatographyâ€“mass spectrometry instrumentation and its impact on high-throughput screening. <i>Journal of Chromatography A</i> , 2003, 1000, 413-436.	3.7	178
4	Use of quadrupole time-of-flight mass spectrometry in the elucidation of unknown compounds present in environmental water. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 169-178.	1.5	132
5	Confirmation of organic micropollutants detected in environmental samples by liquid chromatography tandem mass spectrometry: Achievements and pitfalls. <i>TrAC - Trends in Analytical Chemistry</i> , 2006, 25, 1030-1042.	11.4	101
6	Fragmentation of toxicologically relevant drugs in positiveâ€“ion liquid chromatographyâ€“tandem mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2011, 30, 626-663.	5.4	87
7	High-performance liquid chromatographyâ€“mass spectrometry-based acetylcholinesterase assay for the screening of inhibitors in natural extracts. <i>Journal of Chromatography A</i> , 2006, 1112, 303-310.	3.7	84
8	Interstellar dust, chirality, comets and the origins of life: Life from dead stars?. <i>Journal of Biological Physics</i> , 1995, 20, 61-70.	1.5	68
9	Targeted LCâ€“MS derivatization for aldehydes and carboxylic acids with a new derivatization agent 4-APEBA. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 665-675.	3.7	66
10	Mass spectrometry-based biochemical assays for enzyme-inhibitor screening. <i>TrAC - Trends in Analytical Chemistry</i> , 2007, 26, 867-883.	11.4	62
11	Group-specific fragmentation of pesticides and related compounds in liquid chromatographyâ€“tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2010, 1217, 4061-4070.	3.7	59
12	Fragmentation of toxicologically relevant drugs in negativeâ€“ion liquid chromatographyâ€“tandem mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2012, 31, 626-665.	5.4	40
13	Determination and identification of estrogenic compounds generated with biosynthetic enzymes using hyphenated screening assays, high resolution mass spectrometry and off-line NMR. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010, 878, 667-674.	2.3	38
14	Production and on-line acetylcholinesterase bioactivity profiling of chemical and biological degradation products of tacrine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 53, 609-616.	2.8	27
15	Stability-indicating study of the anti-Alzheimer's drug galantamine hydrobromide. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011, 55, 85-92.	2.8	25
16	At-line nanofractionation with parallel mass spectrometry and bioactivity assessment for the rapid screening of thrombin and factor Xa inhibitors in snake venoms. <i>Toxicon</i> , 2016, 110, 79-89.	1.6	23
17	Neurotoxicity fingerprinting of venoms using on-line microfluidic AChBP profiling. <i>Toxicon</i> , 2018, 148, 213-222.	1.6	23
18	An efficient analytical platform for on-line microfluidic profiling of neuroactive snake venoms towards nicotinic receptor affinity. <i>Toxicon</i> , 2013, 61, 112-124.	1.6	22

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19	Analysis of acetylcholinesterase inhibitors: bioanalysis, degradation and metabolism. <i>Biomedical Chromatography</i> , 2011, 25, 278-299.	1.7	20
20	Developing strategies for isolation of minor impurities with mass spectrometry-directed fractionation. <i>Journal of Chromatography A</i> , 2002, 970, 131-140.	3.7	18
21	Identification of very long-chain (>C24) fatty acid methyl esters using gas chromatography coupled to quadrupole/time-of-flight mass spectrometry with atmospheric pressure chemical ionization source. <i>Analytica Chimica Acta</i> , 2019, 1051, 103-109.	5.4	18
22	High Throughput Screening Methodologies Classified for Major Drug Target Classes According to Target Signaling Pathways. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2010, 13, 548-561.	1.1	17
23	Analytical workflow for rapid screening and purification of bioactives from venom proteomes. <i>Toxicon</i> , 2013, 76, 270-281.	1.6	16
24	Miniaturized Bioaffinity Assessment Coupled to Mass Spectrometry for Guided Purification of Bioactives from Toad and Cone Snail. <i>Biology</i> , 2014, 3, 139-156.	2.8	16
25	Solution-phase electrochemistry-nuclear magnetic resonance of small organic molecules. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 70, 31-39.	11.4	16
26	Photon-Independent Gas-Phase-Ion Formation in Capillary Electrophoresis-Mass Spectrometry Using Atmospheric Pressure Photoionization. <i>Analytical Chemistry</i> , 2007, 79, 5351-5357.	6.5	15
27	Identification and quantification of drug-albumin adducts in serum samples from a drug exposure study in mice. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 917-918, 53-61.	2.3	14
28	High-resolution metabolic profiling towards G protein-coupled receptors: Rapid and comprehensive screening of histamine H4 receptor ligands. <i>Journal of Chromatography A</i> , 2012, 1259, 213-220.	3.7	11
29	EC-SPE-stripline-NMR analysis of reactive products: a feasibility study. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6711-6720.	3.7	11
30	At-line coupling of LC-MS to bioaffinity and selectivity assessment for metabolic profiling of ligands towards chemokine receptors CXCR1 and CXCR2. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 1002, 42-53.	2.3	9
31	Tandem mass spectrometry study of p38 kinase inhibitors and related substances. <i>Journal of Mass Spectrometry</i> , 2013, 48, 718-731.	1.6	7
32	On-line coupling of surface plasmon resonance optical sensing to size-exclusion chromatography for affinity assessment of antibody samples. <i>Journal of Chromatography A</i> , 2016, 1452, 81-88.	3.7	6
33	Photohuperzine A: A new photoisomer of huperzine A: Structure elucidation, formation kinetics and activity assessment. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 52, 190-194.	2.8	5
34	Tandem mass spectrometry of organic nitro and halogen compounds: Competition between losses of molecules and of radicals. <i>International Journal of Mass Spectrometry</i> , 2021, 460, 116496.	1.5	5
35	Development of On-line Liquid Chromatography-Biochemical Detection for Soluble Epoxide Hydrolase Inhibitors in Mixtures. <i>Chromatographia</i> , 2013, 76, 13-21.	1.3	3
36	Development of Plate Reader and On-Line Microfluidic Screening to Identify Ligands of the 5-Hydroxytryptamine Binding Protein in Venoms. <i>Toxins</i> , 2015, 7, 2336-2353.	3.4	2

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37	Interpretation of MS ⁿ -MS spectra of small-molecule signal transduction inhibitors using accurate-m/z data and m/z-shifts with stable-isotope-labeled analogues and metabolites. International Journal of Mass Spectrometry, 2021, 464, 116559.	1.5	2
38	Optimization of information content in a mass spectrometry based flow-chemistry system by investigating different ionization approaches. Talanta, 2011, 84, 623-631.	5.5	1
39	Tandem mass spectrometry of small-molecule signal transduction inhibitors: Accurate-m/z data to adapt structure proposals of product ions. Journal of Pharmaceutical and Biomedical Analysis, 2021, 195, 113864.	2.8	1