

# GÃ©rard Hopfgartner

## List of Publications by Year in descending order

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79  
papers

3,211  
citations

159525

30  
h-index

155592

55  
g-index

85  
all docs

85  
docs citations

85  
times ranked

3571  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative high-throughput analysis of drugs in biological matrices by mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2003, 22, 195-214.	2.8	255
2	Triple quadrupole linear ion trap mass spectrometer for the analysis of small molecules and macromolecules. <i>Journal of Mass Spectrometry</i> , 2004, 39, 845-855.	0.7	248
3	The use of mass spectrometry to analyze dried blood spots. <i>Mass Spectrometry Reviews</i> , 2016, 35, 361-438.	2.8	193
4	The Use of Variable Q1 Isolation Windows Improves Selectivity in LC-MS Acquisition. <i>Journal of Proteome Research</i> , 2015, 14, 4359-4371.	1.8	151
5	Ion spray mass spectrometric detection for liquid chromatography: A concentration- or a mass-flow-sensitive device?. <i>Journal of Chromatography A</i> , 1993, 647, 51-61.	1.8	145
6	Processing strategies and software solutions for data-independent acquisition in mass spectrometry. <i>Proteomics</i> , 2015, 15, 964-980.	1.3	143
7	High-resolution mass spectrometry for integrated qualitative and quantitative analysis of pharmaceuticals in biological matrices. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 2587-2596.	1.9	137
8	Rapid screening and characterization of drug metabolites using a new quadrupole-linear ion trap mass spectrometer. <i>Journal of Mass Spectrometry</i> , 2003, 38, 138-150.	0.7	133
9	Analysis of erlotinib and its metabolites in rat tissue sections by MALDI quadrupole time-of-flight mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2007, 42, 900-909.	0.7	105
10	Single Hair Cocaine Consumption Monitoring by Mass Spectrometric Imaging. <i>Analytical Chemistry</i> , 2011, 83, 4266-4272.	3.2	103
11	Quantification in MALDI-MS imaging: what can we learn from MALDI-selected reaction monitoring and what can we expect for imaging?. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2177-2187.	1.9	89
12	Exact mass measurement of product ions for the structural elucidation of drug metabolites with a tandem quadrupole orthogonal-acceleration time-of-flight mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 1999, 10, 1305-1314.	1.2	86
13	Matrix-assisted laser desorption/ionization mass spectrometric imaging of complete rat sections using a triple quadrupole linear ion trap. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 733-736.	0.7	85
14	A kinetically inert and optically active CrIII partner in thermodynamically self-assembled heterodimetallic non-covalent d-f podates. <i>Dalton Transactions RSC</i> , 2002, , 1929.	2.3	80
15	Integrated Quantification and Identification of Aldehydes and Ketones in Biological Samples. <i>Analytical Chemistry</i> , 2014, 86, 5089-5100.	3.2	62
16	Accelerated tryptic digestion for the analysis of biopharmaceutical monoclonal antibodies in plasma by liquid chromatography with tandem mass spectrometric detection. <i>Journal of Chromatography A</i> , 2010, 1217, 57-64.	1.8	60
17	SWATH data independent acquisition mass spectrometry for metabolomics. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 120, 115278.	5.8	58
18	Gas-Phase Separation of Drugs and Metabolites Using Modifier-Assisted Differential Ion Mobility Spectrometry Hyphenated to Liquid Extraction Surface Analysis and Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 11771-11779.	3.2	57

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19	Method development aspects for the quantitation of pharmaceutical compounds in human plasma with a matrix-assisted laser desorption/ionization source in the multiple reaction monitoring mode. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 911-919.	0.7	52
20	Pharmacokinetic and Pharmacodynamic Properties of Buprenorphine After a Single Intravenous Administration in Healthy Volunteers: A Randomized, Double-Blind, Placebo-Controlled, Crossover Study. <i>Clinical Therapeutics</i> , 2007, 29, 1620-1631.	1.1	46
21	The combination of liquid chromatography/tandem mass spectrometry and chip-based infusion for improved screening and characterization of drug metabolites. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 618-626.	0.7	44
22	Quantification of acetaminophen and two of its metabolites in human plasma by ultra-high performance liquid chromatography–low and high resolution tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 904, 42-50.	1.2	43
23	Effects of liquid post-column addition in electrospray ionization performance in supercritical fluid chromatography–mass spectrometry. <i>Journal of Chromatography A</i> , 2017, 1517, 176-184.	1.8	43
24	Ultra-fast quantitation of saquinavir in human plasma by matrix-assisted laser desorption/ionization and selected reaction monitoring mode detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 872, 68-76.	1.2	42
25	SWATH acquisition mode for drug metabolism and metabolomics investigations. <i>Bioanalysis</i> , 2016, 8, 1735-1750.	0.6	39
26	The use of LC predicted retention times to extend metabolites identification with SWATH data acquisition. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1071, 3-10.	1.2	37
27	Alternative CHCA–based matrices for the analysis of low molecular weight compounds by UV–MALDI–tandem mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2011, 46, 144-152.	0.7	36
28	Analysis of biopharmaceutical proteins in biological matrices by LC-MS/MS II. LC-MS/MS analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 48, 52-61.	5.8	36
29	SWATH-MS for metabolomics and lipidomics: critical aspects of qualitative and quantitative analysis. <i>Metabolomics</i> , 2020, 16, 71.	1.4	36
30	Metabolomic spectral libraries for data-independent SWATH liquid chromatography mass spectrometry acquisition. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 1873-1884.	1.9	30
31	Lanthanide Triple Helical Complexes with a Chiral Bis(benzimidazole)pyridine Derivative. <i>European Journal of Inorganic Chemistry</i> , 2002, 2002, 3101-3110.	1.0	29
32	High-throughput liquid chromatography differential mobility spectrometry mass spectrometry for bioanalysis: determination of reduced and oxidized form of glutathione in human blood. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 7153-7161.	1.9	26
33	Can MS fully exploit the benefits of fast chromatography?. <i>Bioanalysis</i> , 2011, 3, 121-123.	0.6	25
34	Laser-based methods for the analysis of low molecular weight compounds in biological matrices. <i>Methods</i> , 2016, 104, 142-153.	1.9	23
35	Hyphenation of packed column supercritical fluid chromatography with mass spectrometry: where are we and what are the remaining challenges?. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6667-6677.	1.9	22
36	SWATH data independent acquisition mass spectrometry for screening of xenobiotics in biological fluids: Opportunities and challenges for data processing. <i>Talanta</i> , 2020, 211, 120747.	2.9	22

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37	Modifier Selectivity Effect on Differential Ion Mobility Resolution of Isomeric Drugs and Multidimensional Liquid Chromatography Ion Mobility Analysis. <i>Analytical Chemistry</i> , 2019, 91, 11670-11677.	3.2	20
38	Application of 3D printed tools for customized open port probe-electrospray mass spectrometry. <i>Talanta</i> , 2020, 215, 120894.	2.9	20
39	Ranking Fragment Ions Based on Outlier Detection for Improved Label-Free Quantification in Data-Independent Acquisition LC-MS/MS. <i>Journal of Proteome Research</i> , 2015, 14, 4581-4593.	1.8	19
40	Supercritical fluid chromatography-mass spectrometry using data independent acquisition for the analysis of polar metabolites in human urine. <i>Journal of Chromatography A</i> , 2020, 1609, 460449.	1.8	19
41	Parallel ultra high pressure liquid chromatography-mass spectrometry for the quantification of HIV protease inhibitors using dried spot sample collection format. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 965, 244-253.	1.2	18
42	Adduct annotation in liquid chromatography/high-resolution mass spectrometry to enhance compound identification. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 503-517.	1.9	17
43	Protein Quantification by MALDI-Selected Reaction Monitoring Mass Spectrometry Using Sulfonate Derivatized Peptides. <i>Analytical Chemistry</i> , 2010, 82, 5227-5237.	3.2	16
44	Peptides Quantification by Liquid Chromatography with Matrix-Assisted Laser Desorption/Ionization and Selected Reaction Monitoring Detection. <i>Journal of Proteome Research</i> , 2012, 11, 4972-4982.	1.8	16
45	Optimization of human dendritic cell sample preparation for mass spectrometry-based proteomic studies. <i>Analytical Biochemistry</i> , 2015, 484, 40-50.	1.1	16
46	Mass Spectrometry Imaging of Drugs of Abuse in Hair. <i>Methods in Molecular Biology</i> , 2017, 1618, 137-147.	0.4	16
47	Generic on-line solid phase extraction sample preparation strategies for the analysis of drugs in biological matrices by LC-MS/MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 102, 290-298.	1.4	14
48	Automated parallel derivatization of metabolites with SWATH-MS data acquisition for qualitative and quantitative analysis. <i>Analytica Chimica Acta</i> , 2020, 1127, 198-206.	2.6	14
49	Mapping of drug distribution in the rabbit liver tumor model by complementary fluorescence and mass spectrometry imaging. <i>Journal of Controlled Release</i> , 2018, 269, 128-135.	4.8	13
50	Hybrid SWATH/MS and HR-SRM/MS acquisition for phospholipidomics using QUAL/QUANT data processing. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 5681-5690.	1.9	13
51	Mass Spectrometric QUAL/QUAN Approaches for Drug Metabolism and Metabolomics. <i>Chimia</i> , 2012, 66, 218-222.	0.3	10
52	Bioanalytical method validation: How much should we do and how should we document?. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 531-532.	1.9	10
53	Improved metabolite characterization by liquid chromatography - Tandem mass spectrometry through electron impact type fragments from adduct ions. <i>Analytica Chimica Acta</i> , 2021, 1150, 338207.	2.6	10
54	Clustering and Nonclustering Modifier Mixtures in Differential Mobility Spectrometry for Multidimensional Liquid Chromatography Ion Mobility-Mass Spectrometry Analysis. <i>Analytical Chemistry</i> , 2021, 93, 6638-6645.	3.2	10

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55	Quantification of ghrelin and des-acyl ghrelin in human plasma by using cubic-selected reaction-monitoring LCMS. <i>Bioanalysis</i> , 2014, 6, 1373-1383.	0.6	9
56	Metabolomics data complemented drug use information in epidemiological databases: pilot study of potential kidney donors. <i>Journal of Clinical Epidemiology</i> , 2021, 135, 10-16.	2.4	9
57	Comparison of fractionation strategies for offline two-dimensional liquid chromatography tandem mass spectrometry analysis of proteins from mouse adipose tissue. <i>Analytical Biochemistry</i> , 2015, 484, 122-132.	1.1	8
58	Optimization by infusion of multiple reaction monitoring transitions for sensitive quantification of peptides by liquid chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 753-761.	0.7	8
59	Loss of NifQ Leads to Accumulation of Porphyrins and Altered Metal-Homeostasis in Nitrogen-Fixing Symbioses. <i>Molecular Plant-Microbe Interactions</i> , 2019, 32, 208-216.	1.4	8
60	Urea-Peptide Hybrids as VEGF-A165/NRP-1 Complex Inhibitors with Improved Receptor Affinity and Biological Properties. <i>International Journal of Molecular Sciences</i> , 2021, 22, 72.	1.8	8
61	Current developments in ion mobility spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 6227-6227.	1.9	7
62	Urea moiety as amide bond mimetic in peptide-like inhibitors of VEGF-A165/NRP-1 complex. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019, 29, 2493-2497.	1.0	7
63	Does Cysteine Rule (CysR) Complete the CendR Principle? Increase in Affinity of Peptide Ligands for NRP-1 Through the Presence of N-Terminal Cysteine. <i>Biomolecules</i> , 2020, 10, 448.	1.8	7
64	Annotation of complex mass spectra by multi-layered analysis. <i>Analytica Chimica Acta</i> , 2022, 1193, 339317.	2.6	7
65	Bioanalytical research and training in academia during the COVID-19 pandemic. <i>Bioanalysis</i> , 2020, 12, 1209-1211.	0.6	4
66	A Novel Tube-based Format for Dried Blood Spots Integrating Sample Collection and Sample Preparation. <i>Chimia</i> , 2012, 66, 65.	0.3	3
67	Dedicated Software Enhancing Data-independent Acquisition Methods in Mass Spectrometry. <i>Chimia</i> , 2016, 70, 293.	0.3	3
68	Mass spectrometry based high-throughput bioanalysis of low molecular weight compounds: are we ready to support personalized medicine?. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 181-192.	1.9	3
69	Association of diuretic use with increased risk for long-term post-transplantation diabetes mellitus in kidney transplant recipients. <i>Nephrology Dialysis Transplantation</i> , 2022, , .	0.4	3
70	Microflow Liquid Chromatography Coupled to Mass Spectrometry (µLC-MS) Workflow for O-Glycopeptides Isomers Analysis Combining Differential Mobility Spectrometry and Collision Induced and Electron Capture Dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 688-694.	1.2	3
71	Untargeted $\tilde{\text{SWATH}}^{\text{TM}}$ mass spectrometry-based metabolomics for studying chronic and intermittent exposure to xenobiotics in cohort studies. <i>Food and Chemical Toxicology</i> , 2022, 165, 113188.	1.8	3
72	In silicoprediction for the investigation of comedication interferences in quantitative LC-MS detection in the SRM mode. <i>Bioanalysis</i> , 2012, 4, 1907-1917.	0.6	2

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73	Simultaneous Quantitative Analysis of HIV Protease Inhibitors in Human Plasma Using Core-Shell Column and Fast MRM Detection. <i>Chromatography</i> , 2015, 36, 127-131.	0.8	2
74	The Life Sciences Mass Spectrometry Research Unit. <i>Chimia</i> , 2012, 66, 335-338.	0.3	1
75	What makes a good review from an editor's perspective?. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 6721-6722.	1.9	1
76	Wenkui Li, Wenying Jian, and Yunlin Fu (Eds.): Sample preparation in LC-MS bioanalysis. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 803-804.	1.9	1
77	Mass spectrometry based approaches and strategies in bioanalysis for qualitative and quantitative analysis of pharmaceutically relevant molecules. <i>Drug Discovery Today: Technologies</i> , 2021, 40, 64-68.	4.0	1
78	Analytical science in Switzerland and ANAKON 2011. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 2483-2484.	1.9	0
79	Editorial. <i>Chimia</i> , 2014, 68, 109.	0.3	0