

# Heiko Hayen

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,519  
citations

304368

22  
h-index

344852

36  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1873  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion identity molecular networking for mass spectrometry-based metabolomics in the GNPS environment. <i>Nature Communications</i> , 2021, 12, 3832.	5.8	119
2	Dielectric Barrier Discharge Ionization for Liquid Chromatography/Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 10239-10245.	3.2	110
3	Designer rhamnolipids by reduction of congener diversity: production and characterization. <i>Microbial Cell Factories</i> , 2017, 16, 225.	1.9	93
4	Creating metabolic demand as an engineering strategy in <i>Pseudomonas putida</i> – Rhamnolipid synthesis as an example. <i>Metabolic Engineering Communications</i> , 2016, 3, 234-244.	1.9	73
5	Ambient Diode Laser Desorption Dielectric Barrier Discharge Ionization Mass Spectrometry of Nonvolatile Chemicals. <i>Analytical Chemistry</i> , 2013, 85, 3174-3182.	3.2	58
6	Ambient desorption/ionization mass spectrometry: evolution from rapid qualitative screening to accurate quantification tool. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 4061-4076.	1.9	58
7	Simultaneous testing of multiclass organic contaminants in food and environment by liquid chromatography/dielectric barrier discharge ionization-mass spectrometry. <i>Analyst</i> , 2012, 137, 5403.	1.7	51
8	Glycerophospholipid profile in oncogene-induced senescence. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2012, 1821, 1256-1268.	1.2	49
9	Characterization of rhamnolipids by liquid chromatography/mass spectrometry after solid-phase extraction. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 2505-2514.	1.9	48
10	High performance liquid chromatography-charged aerosol detection applying an inverse gradient for quantification of rhamnolipid biosurfactants. <i>Journal of Chromatography A</i> , 2016, 1455, 125-132.	1.8	45
11	Hydrophilic interaction chromatography of small metal species in plants using sulfobetaine- and phosphorylcholine-type zwitterionic stationary phases. <i>Journal of Separation Science</i> , 2008, 31, 1615-1622.	1.3	41
12	Glycerophospholipid profiling by high-performance liquid chromatography/mass spectrometry using exact mass measurements and multi-stage mass spectrometric fragmentation experiments in parallel. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 1636-1646.	0.7	41
13	Determination of Peroxide Explosive TATP and Related Compounds by Dielectric Barrier Discharge Ionization-Mass Spectrometry (DBDI-MS). <i>Analytical Chemistry</i> , 2017, 89, 4210-4215.	3.2	41
14	LIPG-promoted lipid storage mediates adaptation to oxidative stress in breast cancer. <i>International Journal of Cancer</i> , 2019, 145, 901-915.	2.3	41
15	Exploiting the Natural Diversity of RhIA Acyltransferases for the Synthesis of the Rhamnolipid Precursor 3-(3-Hydroxyalkanoxy)Alkanoic Acid. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	37
16	Determination of Urinary Metabolites of the Emerging UV Filter Octocrylene by Online-SPE-LC-MS/MS. <i>Analytical Chemistry</i> , 2018, 90, 944-951.	3.2	36
17	Lipid profiling and analytical discrimination of seven cereals using high temperature gas chromatography coupled to high resolution quadrupole time-of-flight mass spectrometry. <i>Food Chemistry</i> , 2019, 282, 27-35.	4.2	36
18	Quantification of coumarin in cinnamon and woodruff beverages using DIP-APCI-MS and LC-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 8337-8345.	1.9	27

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19	Three-dimensional Kendrick mass plots as a tool for graphical lipid identification. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 981-991.	0.7	26
20	Separation and identification of phospholipids by hydrophilic interaction liquid chromatography coupled to tandem high resolution mass spectrometry with focus on isomeric phosphatidylglycerol and bis(monoacylglycero)phosphate. <i>Journal of Chromatography A</i> , 2018, 1565, 105-113.	1.8	26
21	A pH shift induces high-titer liamocin production in <i>Aureobasidium pullulans</i> . <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 4741-4752.	1.7	26
22	Lipid Species Annotation at Double Bond Position Level with Custom Databases by Extension of the MZmine 2 Open-Source Software Package. <i>Analytical Chemistry</i> , 2019, 91, 5098-5105.	3.2	26
23	Epigenomic and transcriptional profiling identifies impaired glyoxylate detoxification in NAFLD as a risk factor for hyperoxaluria. <i>Cell Reports</i> , 2021, 36, 109526.	2.9	22
24	Complementing Matrix-Assisted Laser Desorption Ionization-Mass Spectrometry Imaging with Chromatography Data for Improved Assignment of Isobaric and Isomeric Phospholipids Utilizing Trapped Ion Mobility-Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 2135-2143.	3.2	21
25	Human metabolism and urinary excretion of seven neonicotinoids and neonicotinoid-like compounds after controlled oral dosages. <i>Archives of Toxicology</i> , 2022, 96, 121-134.	1.9	21
26	Sensing of nutrients by CPT1C regulates late endosome/lysosome anterograde transport and axon growth. <i>ELife</i> , 2019, 8, .	2.8	20
27	Software tool for mining liquid chromatography/multi-stage mass spectrometry data for comprehensive glycerophospholipid profiling. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 2083-2092.	0.7	19
28	Rhamnolipid biosurfactant analysis using online turbulent flow chromatography-liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2016, 1465, 90-97.	1.8	19
29	Mass spectrometric investigation of cardiolipins and their oxidation products after two-dimensional heart-cut liquid chromatography. <i>Journal of Chromatography A</i> , 2020, 1619, 460918.	1.8	17
30	Localization of double bond positions in lipids by tandem mass spectrometry succeeding high-performance liquid chromatography with post-column derivatization. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 86-94.	0.7	16
31	Determination of specific urinary nonylphenol metabolites by online-SPE-LC-MS/MS as novel human exposure biomarkers. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021, 1177, 122794.	1.2	15
32	Analysis of fatty acids and triacylglycerides by Pd nanoparticle-assisted laser desorption/ionization mass spectrometry. <i>Analytical Methods</i> , 2015, 7, 3701-3707.	1.3	14
33	Structural characterization of pyoverdines produced by <i>Pseudomonas putida</i> KT2440 and <i>Pseudomonas taiwanensis</i> VLB120. <i>BioMetals</i> , 2017, 30, 589-597.	1.8	14
34	Oxalic acid quantification in mouse urine and primary mouse hepatocyte cell culture samples by ion exclusion chromatography-mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1068-1069, 239-244.	1.2	14
35	LC/MS analysis of vitamin D metabolites by dielectric barrier discharge ionization and a comparison with electrospray ionization and atmospheric pressure chemical ionization. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 4905-4911.	1.9	14
36	Human Metabolism and Urinary Excretion Kinetics of Nonylphenol in Three Volunteers after a Single Oral Dose. <i>Chemical Research in Toxicology</i> , 2021, 34, 2392-2403.	1.7	14

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37	Analysis of artificially oxidized cardiolipins and monolyso- $\omega$ -cardiolipins via liquid chromatography/high-resolution mass spectrometry and Kendrick mass defect plots after hydrophilic interaction liquid chromatography based sample preparation. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8566.	0.7	13
38	De-novo identification of specific exposure biomarkers of the alternative plasticizer di(2-ethylhexyl) terephthalate (DEHTP) after low oral dosage to male volunteers by HPLC-Q-Orbitrap-MS. <i>Biomarkers</i> , 2018, 23, 196-206.	0.9	12
39	Importance of oxidation products in coumarin-mediated Fe(hydr)oxide mineral dissolution. <i>BioMetals</i> , 2020, 33, 305-321.	1.8	12
40	Digging deeper - A new data mining workflow for improved processing and interpretation of high resolution GC-Q-TOF MS data in archaeological research. <i>Scientific Reports</i> , 2020, 10, 767.	1.6	12
41	Investigation of cardiolipin oxidation products as a new endpoint for oxidative stress in <i>C. elegans</i> by means of online two-dimensional liquid chromatography and high-resolution mass spectrometry. <i>Free Radical Biology and Medicine</i> , 2021, 162, 216-224.	1.3	12
42	Hydroperoxylated vs Dihydroxylated Lipids: Differentiation of Isomeric Cardiolipin Oxidation Products by Multidimensional Separation Techniques. <i>Analytical Chemistry</i> , 2020, 92, 12010-12016.	3.2	11
43	Screening of semifluorinated $n$ -alkanes by gas chromatography coupled to dielectric barrier discharge ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 1092-1098.	0.7	10
44	Identification and structural characterization of lipid A from <i>Escherichia coli</i> , <i>Pseudomonas putida</i> and <i>Pseudomonas taiwanensis</i> using liquid chromatography coupled to high-resolution tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8897.	0.7	10
45	Determination of urinary metabolites of the UV filter homosalate by online-SPE-LC-MS/MS. <i>Analytica Chimica Acta</i> , 2021, 1176, 338754.	2.6	9
46	Comprehensive liamocin biosurfactants analysis by reversed phase liquid chromatography coupled to mass spectrometric and charged-aerosol detection. <i>Journal of Chromatography A</i> , 2020, 1627, 461404.	1.8	8
47	Profiling of sphingolipids in <i>Caenorhabditis elegans</i> by two-dimensional multiple heart-cut liquid chromatography $\text{--}$ mass spectrometry. <i>Journal of Chromatography A</i> , 2021, 1655, 462481.	1.8	7
48	Application of large volume injection for sensitive LC-MS/MS analysis of seven artificial sweeteners in surface waters. <i>MethodsX</i> , 2020, 7, 101134.	0.7	6
49	Double bond localization in unsaturated rhamnolipid precursors 3-(3-hydroxyalkanoyloxy)alkanoic acids by liquid chromatography $\text{--}$ mass spectrometry applying online Patern- $\text{A}^2$ $\text{--}$ $\text{B}^{\frac{1}{4}}$ chi reaction. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 5601-5613.	1.9	6
50	Determination of di- <i>n</i> -butyl adipate (DnBA) metabolites as possible biomarkers of exposure in human urine by online-SPE-LC-MS/MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020, 1141, 122029.	1.2	6
51	Tattoo Pigment Identification in Inks and Skin Biopsies of Adverse Reactions by Complementary Elemental and Molecular Bioimaging with Mass Spectral Library Matching. <i>Analytical Chemistry</i> , 2022, 94, 3581-3589.	3.2	6
52	Expanding the Kendrick Mass Plot Toolbox in MZmine 2 to Enable Rapid Polymer Characterization in Liquid Chromatography $\text{--}$ Mass Spectrometry Data Sets. <i>Analytical Chemistry</i> , 2020, 92, 628-633.	3.2	5
53	Hyphenation of supercritical fluid chromatography with different detection methods for identification and quantification of liamocin biosurfactants. <i>Journal of Chromatography A</i> , 2020, 1631, 461584.	1.8	5
54	Lipoproteins Cause Bone Resorption in a Mouse Model of <i>Staphylococcus aureus</i> Septic Arthritis. <i>Frontiers in Microbiology</i> , 2022, 13, 843799.	1.5	5

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55	Hydrophilic interaction liquid chromatography tandem mass spectrometry analysis of malonyl-coenzyme A in breast cancer cell cultures applying online solid-phase extraction. <i>Journal of Separation Science</i> , 2017, 40, 4303-4310.	1.3	4
56	Mass spectrometric characterization of siderophores produced by <i>Pseudomonas taiwanensis</i> VLB120 assisted by stable isotope labeling of nitrogen source. <i>BioMetals</i> , 2018, 31, 785-795.	1.8	3
57	Complementary approach for analysis of phospholipids by liquid chromatography hyphenated to elemental and molecular mass spectrometry. <i>Analytical Science Advances</i> , 2020, 1, 46.	1.2	3
58	Human metabolism and urinary excretion kinetics of di-n-butyl adipate (DnBA) after oral and dermal administration in three volunteers. <i>Toxicology Letters</i> , 2021, 343, 11-20.	0.4	3
59	Structural characterization of a degradation product of rocuronium using nanoelectrospray high resolution mass spectrometry. <i>Drug Testing and Analysis</i> , 2015, 7, 773-779.	1.6	2
60	Characterization of the iron-binding properties of pyoverdine using electron-capture dissociation-tandem mass spectrometry. <i>BioMetals</i> , 2016, 29, 53-60.	1.8	1
61	Biolabeling with cobaltocinium tags. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2018, 73, 781-791.	0.3	0