# Heiko Hayen

List of Publications by Year
in descending order

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Version: 2024-02-01

| 61 | 1,519 | 304743 | 345221 |
|---|---|---|---|
| papers | citations | 22 h-index | 36 g-index |

| 62 | 62 | 62 | 1873 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Human metabolism and urinary excretion of seven neonicotinoids and neonicotinoid-like compounds after controlled oral dosages. Archives of Toxicology, 2022, 96, 121-134. | 4.2 | 21 |
| 2 | Tattoo Pigment Identification in Inks and Skin Biopsies of Adverse Reactions by Complementary Elemental and Molecular Bioimaging with Mass Spectral Library Matching. Analytical Chemistry, 2022, 94, 3581-3589. | 6.5 | 6 |
| 3 | Lipoproteins Cause Bone Resorption in a Mouse Model of Staphylococcus aureus Septic Arthritis. Frontiers in Microbiology, 2022, 13, 843799. | 3.5 | 5 |
| 4 | Investigation of cardiolipin oxidation products as a new endpoint for oxidative stress in C. elegans by means of online two-dimensional liquid chromatography and high-resolution mass spectrometry. Free Radical Biology and Medicine, 2021, 162, 216-224. | 2.9 | 12 |
| 5 | 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. Analytical Chemistry, 2021, 93, 2135-2143. | 6.5 | 21 |
| 6 | Human metabolism and urinary excretion kinetics of di-n-butyl adipate (DnBA) after oral and dermal administration in three volunteers. Toxicology Letters, 2021, 343, 11-20. | 0.8 | 3 |
| 7 | Ion identity molecular networking for mass spectrometry-based metabolomics in the GNPS environment. Nature Communications, 2021, 12, 3832. | 12.8 | 119 |
| 8 | Determination of specific urinary nonylphenol metabolites by online-SPE-LC-MS/MS as novel human exposure biomarkers. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2021, 1177, 122794. | 2.3 | 15 |
| 9 | Epigenomic and transcriptional profiling identifies impaired glyoxylate detoxification in NAFLD as a risk factor for hyperoxaluria. Cell Reports, 2021, 36, 109526. | 6.4 | 22 |
| 10 | Determination of urinary metabolites of the UV filter homosalate by online-SPE-LC-MS/MS. Analytica Chimica Acta, 2021, 1176, 338754. | 5.4 | 9 |
| 11 | Profiling of sphingolipids in Caenorhabditis elegans by two-dimensional multiple heart-cut liquid chromatography â€“ mass spectrometry. Journal of Chromatography A, 2021, 1655, 462481. | 3.7 | 7 |
| 12 | Human Metabolism and Urinary Excretion Kinetics of Nonylphenol in Three Volunteers after a Single Oral Dose. Chemical Research in Toxicology, 2021, 34, 2392-2403. | 3.3 | 14 |
| 13 | Analysis of artificially oxidized cardiolipins and monolysoâ€cardiolipins via liquid chromatography/highâ€resolution mass spectrometry and Kendrick mass defect plots after hydrophilic interaction liquid chromatography based sample preparation. Rapid Communications in Mass Spectrometry, 2020, 34, e8566. | 1.5 | 13 |
| 14 | Expanding the Kendrick Mass Plot Toolbox in MZmine 2 to Enable Rapid Polymer Characterization in Liquid Chromatographyâ^'Mass Spectrometry Data Sets. Analytical Chemistry, 2020, 92, 628-633. | 6.5 | 5 |
| 15 | Importance of oxidation products in coumarin-mediated Fe(hydr)oxide mineral dissolution. BioMetals, 2020, 33, 305-321. | 4.1 | 12 |
| 16 | Comprehensive liamocin biosurfactants analysis by reversed phase liquid chromatography coupled to mass spectrometric and charged-aerosol detection. Journal of Chromatography A, 2020, 1627, 461404. | 3.7 | 8 |
| 17 | Identification and structural characterization of lipid A from Escherichia coli , Pseudomonas putida and Pseudomonas taiwanensis using liquid chromatography coupled to highâ€resolution tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2020, 34, e8897. | 1.5 | 10 |
| 18 | Complementary approach for analysis of phospholipids by liquid chromatography hyphenated to elemental and molecular mass spectrometry. Analytical Science Advances, 2020, 1, 46. | 2.8 | 3 |

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|---|---|---|---|
| 19 | Hydroperoxylated vs Dihydroxylated Lipids: Differentiation of Isomeric Cardiolipin Oxidation Products by Multidimensional Separation Techniques. Analytical Chemistry, 2020, 92, 12010-12016. | 6.5 | 11 |
| 20 | Application of large volume injection for sensitive LC-MS/MS analysis of seven artificial sweeteners in surface waters. MethodsX, 2020, 7, 101134. | 1.6 | 6 |
| 21 | Hyphenation of supercritical fluid chromatography with different detection methods for identification and quantification of liamocin biosurfactants. Journal of Chromatography A, 2020, 1631, 461584. | 3.7 | 5 |
| 22 | Double bond localization in unsaturated rhamnolipid precursors 3-(3-hydroxyalkanoyloxy)alkanoic acids by liquid chromatographyâ€“mass spectrometry applying online PaternÃ²â€“BÃ¼chi reaction. Analytical and Bioanalytical Chemistry, 2020, 412, 5601-5613. | 3.7 | 6 |
| 23 | Determination of di-n-butyl adipate (DnBA) metabolites as possible biomarkers of exposure in human urine by online-SPE-LC-MS/MS. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2020, 1141, 122029. | 2.3 | 6 |
| 24 | Exploiting the Natural Diversity of RhlA Acyltransferases for the Synthesis of the Rhamnolipid Precursor 3-(3-Hydroxyalkanoyloxy)Alkanoic Acid. Applied and Environmental Microbiology, 2020, 86, . | 3.1 | 37 |
| 25 | Digging deeper - A new data mining workflow for improved processing and interpretation of high resolution GC-Q-TOF MS data in archaeological research. Scientific Reports, 2020, 10, 767. | 3.3 | 12 |
| 26 | Mass spectrometric investigation of cardiolipins and their oxidation products after two-dimensional heart-cut liquid chromatography. Journal of Chromatography A, 2020, 1619, 460918. | 3.7 | 17 |
| 27 | Localization of doubleâ€bond positions in lipids by tandem mass spectrometry succeeding highâ€performance liquid chromatography with postâ€column derivatization. Rapid Communications in Mass Spectrometry, 2019, 33, 86-94. | 1.5 | 16 |
| 28 | LIPGâ€promoted lipid storage mediates adaptation to oxidative stress in breast cancer. International Journal of Cancer, 2019, 145, 901-915. | 5.1 | 41 |
| 29 | A pH shift induces high-titer liamocin production in Aureobasidium pullulans. Applied Microbiology and Biotechnology, 2019, 103, 4741-4752. | 3.6 | 26 |
| 30 | Lipid Species Annotation at Double Bond Position Level with Custom Databases by Extension of the MZmine 2 Open-Source Software Package. Analytical Chemistry, 2019, 91, 5098-5105. | 6.5 | 26 |
| 31 | Lipid profiling and analytical discrimination of seven cereals using high temperature gas chromatography coupled to high resolution quadrupole time-of-flight mass spectrometry. Food Chemistry, 2019, 282, 27-35. | 8.2 | 36 |
| 32 | Sensing of nutrients by CPT1C regulates late endosome/lysosome anterograde transport and axon growth. ELife, 2019, 8, . | 6.0 | 20 |
| 33 | Screening of semifluorinated nâ€alkanes by gas chromatography coupled to dielectric barrier discharge ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2018, 32, 1092-1098. | 1.5 | 10 |
| 34 | Threeâ€dimensional Kendrick mass plots as a tool for graphical lipid identification. Rapid Communications in Mass Spectrometry, 2018, 32, 981-991. | 1.5 | 26 |
| 35 | Ambient desorption/ionization mass spectrometry: evolution from rapid qualitative screening to accurate quantification tool. Analytical and Bioanalytical Chemistry, 2018, 410, 4061-4076. | 3.7 | 58 |
| 36 | Determination of Urinary Metabolites of the Emerging UV Filter Octocrylene by Online-SPE-LC-MS/MS. Analytical Chemistry, 2018, 90, 944-951. | 6.5 | 36 |

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|---|---|---|---|
| 37 | 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. Biomarkers, 2018, 23, 196-206. | 1.9 | 12 |
| 38 | Biolabeling with cobaltocinium tags. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2018, 73, 781-791. | 0.7 | 0 |
| 39 | LC/MS analysis of vitamin D metabolites by dielectric barrier discharge ionization and a comparison with electrospray ionization and atmospheric pressure chemical ionization. Analytical and Bioanalytical Chemistry, 2018, 410, 4905-4911. | 3.7 | 14 |
| 40 | Mass spectrometric characterization of siderophores produced by Pseudomonas taiwanensis VLB120 assisted by stable isotope labeling of nitrogen source. BioMetals, 2018, 31, 785-795. | 4.1 | 3 |
| 41 | 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. Journal of Chromatography A, 2018, 1565, 105-113. | 3.7 | 26 |
| 42 | Determination of Peroxide Explosive TATP and Related Compounds by Dielectric Barrier Discharge Ionization-Mass Spectrometry (DBDI-MS). Analytical Chemistry, 2017, 89, 4210-4215. | 6.5 | 41 |
| 43 | Structural characterization of pyoverdines produced by Pseudomonas putida KT2440 and Pseudomonas taiwanensis VLB120. BioMetals, 2017, 30, 589-597. | 4.1 | 14 |
| 44 | Oxalic acid quantification in mouse urine and primary mouse hepatocyte cell culture samples by ion exclusion chromatographyâ€“mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2017, 1068-1069, 239-244. | 2.3 | 14 |
| 45 | Hydrophilic interaction liquid chromatography tandem mass spectrometry analysis of malonyl-coenzyme A in breast cancer cell cultures applying online solid-phase extraction. Journal of Separation Science, 2017, 40, 4303-4310. | 2.5 | 4 |
| 46 | Designer rhamnolipids by reduction of congener diversity: production and characterization. Microbial Cell Factories, 2017, 16, 225. | 4.0 | 93 |
| 47 | High performance liquid chromatography-charged aerosol detection applying an inverse gradient for quantification of rhamnolipid biosurfactants. Journal of Chromatography A, 2016, 1455, 125-132. | 3.7 | 45 |
| 48 | Characterization of the iron-binding properties of pyoverdine using electron-capture dissociation-tandem mass spectrometry. BioMetals, 2016, 29, 53-60. | 4.1 | 1 |
| 49 | Creating metabolic demand as an engineering strategy in Pseudomonas putida â€“ Rhamnolipid synthesis as an example. Metabolic Engineering Communications, 2016, 3, 234-244. | 3.6 | 73 |
| 50 | Rhamnolipid biosurfactant analysis using online turbulent flow chromatography-liquid chromatography-tandem mass spectrometry. Journal of Chromatography A, 2016, 1465, 90-97. | 3.7 | 19 |
| 51 | Characterization of rhamnolipids by liquid chromatography/mass spectrometry after solid-phase extraction. Analytical and Bioanalytical Chemistry, 2016, 408, 2505-2514. | 3.7 | 48 |
| 52 | Structural characterization of a degradation product of rocuronium using nanoelectrosprayâ€high resolution mass spectrometry. Drug Testing and Analysis, 2015, 7, 773-779. | 2.6 | 2 |
| 53 | Analysis of fatty acids and triacylglycerides by Pd nanoparticle-assisted laser desorption/ionization mass spectrometry. Analytical Methods, 2015, 7, 3701-3707. | 2.7 | 14 |
| 54 | Quantification of coumarin in cinnamon and woodruff beverages using DIP-APCI-MS and LC-MS. Analytical and Bioanalytical Chemistry, 2013, 405, 8337-8345. | 3.7 | 27 |

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|---|---|---|---|
| 55 | Ambient Diode Laser Desorption Dielectric Barrier Discharge Ionization Mass Spectrometry of Nonvolatile Chemicals. Analytical Chemistry, 2013, 85, 3174-3182. | 6.5 | 58 |
| 56 | Simultaneous testing of multiclass organic contaminants in food and environment by liquid chromatography/dielectric barrier discharge ionization-mass spectrometry. Analyst, The, 2012, 137, 5403. | 3.5 | 51 |
| 57 | Glycerophospholipid profile in oncogene-induced senescence. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2012, 1821, 1256-1268. | 2.4 | 49 |
| 58 | Software tool for mining liquid chromatography/multiâ€stage mass spectrometry data for comprehensive glycerophospholipid profiling. Rapid Communications in Mass Spectrometry, 2010, 24, 2083-2092. | 1.5 | 19 |
| 59 | Glycerophospholipid profiling by highâ€performance liquid chromatography/mass spectrometry using exact mass measurements and multiâ€stage mass spectrometric fragmentation experiments in parallel. Rapid Communications in Mass Spectrometry, 2009, 23, 1636-1646. | 1.5 | 41 |
| 60 | Dielectric Barrier Discharge Ionization for Liquid Chromatography/Mass Spectrometry. Analytical Chemistry, 2009, 81, 10239-10245. | 6.5 | 110 |
| 61 | Hydrophilic interaction chromatography of small metal species in plants using sulfobetaineâ€and phosphorylcholineâ€type zwitterionic stationary phases. Journal of Separation Science, 2008, 31, 1615-1622. | 2.5 | 41 |