

Heiko Hayen

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,519
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304743

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345221

36
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all docs

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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. | 12.8 | 119 |
| 2 | Dielectric Barrier Discharge Ionization for Liquid Chromatography/Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 10239-10245. | 6.5 | 110 |
| 3 | Designer rhamnolipids by reduction of congener diversity: production and characterization. <i>Microbial Cell Factories</i> , 2017, 16, 225. | 4.0 | 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. | 3.6 | 73 |
| 5 | Ambient Diode Laser Desorption Dielectric Barrier Discharge Ionization Mass Spectrometry of Nonvolatile Chemicals. <i>Analytical Chemistry</i> , 2013, 85, 3174-3182. | 6.5 | 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. | 3.7 | 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. | 3.5 | 51 |
| 8 | Glycerophospholipid profile in oncogene-induced senescence. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2012, 1821, 1256-1268. | 2.4 | 49 |
| 9 | Characterization of rhamnolipids by liquid chromatography/mass spectrometry after solid-phase extraction. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 2505-2514. | 3.7 | 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. | 3.7 | 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. | 2.5 | 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. | 1.5 | 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. | 6.5 | 41 |
| 14 | LIPG-promoted lipid storage mediates adaptation to oxidative stress in breast cancer. <i>International Journal of Cancer</i> , 2019, 145, 901-915. | 5.1 | 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, . | 3.1 | 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. | 6.5 | 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. | 8.2 | 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. | 3.7 | 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. | 1.5 | 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. | 3.7 | 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. | 3.6 | 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. | 6.5 | 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. | 6.4 | 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. | 6.5 | 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. | 4.2 | 21 |
| 26 | Sensing of nutrients by CPT1C regulates late endosome/lysosome anterograde transport and axon growth. <i>ELife</i> , 2019, 8, . | 6.0 | 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. | 1.5 | 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. | 3.7 | 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. | 3.7 | 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. | 1.5 | 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. | 2.3 | 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. | 2.7 | 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. | 4.1 | 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. | 2.3 | 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. | 3.7 | 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. | 3.3 | 14 |

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|----|--|-----|-----------|
| 37 | Analysis of artificially oxidized cardiolipins and monolyso- ω -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. | 1.5 | 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. | 1.9 | 12 |
| 39 | Importance of oxidation products in coumarin-mediated Fe(hydr)oxide mineral dissolution. <i>BioMetals</i> , 2020, 33, 305-321. | 4.1 | 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. | 3.3 | 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. | 2.9 | 12 |
| 42 | Hydroperoxylated vs Dihydroxylated Lipids: Differentiation of Isomeric Cardiolipin Oxidation Products by Multidimensional Separation Techniques. <i>Analytical Chemistry</i> , 2020, 92, 12010-12016. | 6.5 | 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. | 1.5 | 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. | 1.5 | 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. | 5.4 | 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. | 3.7 | 8 |
| 47 | Profiling of sphingolipids in <i>Caenorhabditis elegans</i> by two-dimensional multiple heart-cut liquid chromatography -- mass spectrometry. <i>Journal of Chromatography A</i> , 2021, 1655, 462481. | 3.7 | 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. | 1.6 | 6 |
| 49 | Double bond localization in unsaturated rhamnolipid precursors 3-(3-hydroxyalkanoyloxy)alkanoic acids by liquid chromatography -- mass spectrometry applying online Patern- A^2 -- $\text{B}^{\frac{1}{4}}$ chi reaction. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 5601-5613. | 3.7 | 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. | 2.3 | 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. | 6.5 | 6 |
| 52 | Expanding the Kendrick Mass Plot Toolbox in MZmine 2 to Enable Rapid Polymer Characterization in Liquid Chromatography -- Mass Spectrometry Data Sets. <i>Analytical Chemistry</i> , 2020, 92, 628-633. | 6.5 | 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. | 3.7 | 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. | 3.5 | 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. | 2.5 | 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. | 4.1 | 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. | 2.8 | 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. | 0.8 | 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. | 2.6 | 2 |
| 60 | Characterization of the iron-binding properties of pyoverdine using electron-capture dissociation-tandem mass spectrometry. <i>BioMetals</i> , 2016, 29, 53-60. | 4.1 | 1 |
| 61 | Biolabeling with cobaltocinium tags. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2018, 73, 781-791. | 0.7 | 0 |