Gert B Eijkel

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9354252/publications.pdf

Version: 2024-02-01

49 papers	2,185 citations	218677 26 h-index	223800 46 g-index
49 all docs	49 docs citations	49 times ranked	2656 citing authors

#	Article	IF	Citations
1	Curie-point pyrolysis-capillary gas chromatography-high-resolution mass spectrometry of microcrystalline cellulose. Journal of Analytical and Applied Pyrolysis, 1989, 14, 237-280.	5.5	319
2	Automated, parallel mass spectrometry imaging and structural identification of lipids. Nature Methods, 2018, 15, 515-518.	19.0	158
3	Characterisation of beech wood and its holocellulose and xylan fractions by pyrolysis-gas chromatography-mass spectrometry. Journal of Analytical and Applied Pyrolysis, 1987, 11, 417-436.	5.5	153
4	Hypertension Is Associated with Marked Alterations in Sphingolipid Biology: A Potential Role for Ceramide. PLoS ONE, 2011, 6, e21817.	2.5	151
5	Mass Spectrometry Imaging with Isomeric Resolution Enabled by Ozoneâ€Induced Dissociation. Angewandte Chemie - International Edition, 2018, 57, 10530-10534.	13.8	143
6	Pyrolysis high-resolution gas chromatography-mass spectrometry studies on beech wood: capillary high-resolution mass spectrometry of a beech lignin fraction. Biochemical Society Transactions, 1987, 15, 170-174.	3.4	94
7	Time-of-Flight Secondary Ion Mass Spectrometry-Based Molecular Distribution Distinguishing Healthy and Osteoarthritic Human Cartilage. Analytical Chemistry, 2012, 84, 8909-8916.	6.5	78
8	Thermal degradation characteristics of high impact polystyrene/decabromodiphenylether/antimony oxide studied by derivative thermogravimetry and temperature resolved pyrolysisâ€"mass spectrometry: formation of polybrominated dibenzofurans, antimony (oxy)bromides and brominated styrene oligomers. Journal of Analytical and Applied Pyrolysis, 1991, 20, 303-319.	5.5	71
9	Multimodal Mass Spectrometric Imaging of Small Molecules Reveals Distinct Spatio-Molecular Signatures in Differentially Metastatic Breast Tumor Models. Cancer Research, 2010, 70, 9012-9021.	0.9	69
10	Differences in relative growth rate in 11 grasses correlate with differences in chemical composition as determined by pyrolysis mass spectrometry. Oecologia, 1992, 89, 567-573.	2.0	68
11	Design and Performance of a Novel Interface for Combined Matrix-Assisted Laser Desorption Ionization at Elevated Pressure and Electrospray Ionization with Orbitrap Mass Spectrometry. Analytical Chemistry, 2017, 89, 7493-7501.	6.5	65
12	Evidence for oligomers in pyrolysates of microcrystalline cellulose. Journal of Analytical and Applied Pyrolysis, 1989, 15, 71-84.	5.5	56
13	Spatial Systems Lipidomics Reveals Nonalcoholic Fatty Liver Disease Heterogeneity. Analytical Chemistry, 2018, 90, 5130-5138.	6.5	44
14	Matrixâ€assisted laser desorption ionizationâ€"imaging mass spectrometry: A new methodology to study human osteoarthritic cartilage. Arthritis and Rheumatism, 2013, 65, 710-720.	6.7	43
15	Matrix assisted laser desorption ionization mass spectrometry imaging identifies markers of ageing and osteoarthritic cartilage. Arthritis Research and Therapy, 2014, 16, R110.	3.5	39
16	Identifying biomolecular origins of solid organic residues preserved in Iron Age Pottery using DTMS and MVA. Journal of Archaeological Science, 2007, 34, 173-193.	2.4	37
17	Targeted Drug and Metabolite Imaging: Desorption Electrospray Ionization Combined with Triple Quadrupole Mass Spectrometry. Analytical Chemistry, 2018, 90, 13229-13235.	6.5	37
18	VLAM-G: A Grid-Based Virtual Laboratory. Scientific Programming, 2002, 10, 173-181.	0.7	36

#	Article	IF	Citations
19	Chemical imaging of lipid droplets in muscle tissues using hyperspectral coherent Raman microscopy. Histochemistry and Cell Biology, 2014, 141, 263-273.	1.7	35
20	Mass Spectrometry Imaging of Drug Related Crystal-Like Structures in Formalin-Fixed Frozen and Paraffin-Embedded Rabbit Kidney Tissue Sections. Journal of the American Society for Mass Spectrometry, 2016, 27, 117-123.	2.8	35
21	Detection of Localized Hepatocellular Amino Acid Kinetics by using Mass Spectrometry Imaging of Stable Isotopes. Angewandte Chemie - International Edition, 2017, 56, 7146-7150.	13.8	34
22	Using Matrix Peaks To Map Topography:Â Increased Mass Resolution and Enhanced Sensitivity in Chemical Imaging. Analytical Chemistry, 2003, 75, 4373-4381.	6.5	33
23	Dosimetry of paintings: determination of the degree of chemical change in museum-exposed test paintings by mass spectrometry. Thermochimica Acta, 2000, 365, 1-23.	2.7	30
24	Characterization of lipidic markers of chondrogenic differentiation using mass spectrometry imaging. Proteomics, 2015, 15, 702-713.	2.2	29
25	Mass Spectrometry Imaging with Isomeric Resolution Enabled by Ozoneâ€Induced Dissociation. Angewandte Chemie, 2018, 130, 10690-10694.	2.0	28
26	A pyrolysis-mass spectrometry investigation of pectin methylation. Analytical Chemistry, 1988, 60, 1498-1502.	6.5	27
27	The Use of Mass Spectrometry Imaging to Predict Treatment Response of Patient-Derived Xenograft Models of Triple-Negative Breast Cancer. Journal of Proteome Research, 2015, 14, 1069-1075.	3.7	27
28	Differentiation of Mesenchymal Stem Cells under Hypoxia and Normoxia: Lipid Profiles Revealed by Time-of-Flight Secondary Ion Mass Spectrometry and Multivariate Analysis. Analytical Chemistry, 2015, 87, 3981-3988.	6.5	25
29	Three-dimensional molecular reconstruction of rat heart with mass spectrometry imaging. Analytical and Bioanalytical Chemistry, 2012, 404, 2927-2938.	3.7	23
30	â€œAfterlife Experimentâ€• Use of MALDI-MS and SIMS Imaging for the Study of the Nitrogen Cycle within Plants. Analytical Chemistry, 2014, 86, 10071-10077.	6.5	22
31	Protein classification and distribution in osteoarthritic human synovial tissue by matrix-assisted laser desorption ionization mass spectrometry imaging. Analytical and Bioanalytical Chemistry, 2015, 407, 2213-2222.	3.7	20
32	Differential chemical allocation and plant adaptation: A Py-MS Study of 24 species differing in relative growth rate. Plant and Soil, 1995, 175, 275-289.	3.7	19
33	Mass spectrometry imaging of L-[ring-13C6]-labeled phenylalanine and tyrosine kinetics in non-small cell lung carcinoma. Cancer & Metabolism, 2021, 9, 26.	5.0	18
34	A microanalytical approach to plant tissue characterization: A comparative study of healthy and fungus-infected carnation by pyrolysis-mass spectrometry. Journal of Analytical and Applied Pyrolysis, 1991, 19, 213-236.	5.5	17
35	Oxygen-Dependent Lipid Profiles of Three-Dimensional Cultured Human Chondrocytes Revealed by MALDI-MSI. Analytical Chemistry, 2017, 89, 9438-9444.	6.5	16
36	Integrative Metabolic Pathway Analysis Reveals Novel Therapeutic Targets in Osteoarthritis. Molecular and Cellular Proteomics, 2020, 19, 574-588.	3.8	12

#	Article	IF	Citations
37	Combining Time-of-Flight Secondary Ion Mass Spectrometry Imaging Mass Spectrometry and CARS Microspectroscopy Reveals Lipid Patterns Reminiscent of Gene Expression Patterns in the Wing Imaginal Disc of Drosophila melanogaster. Analytical Chemistry, 2017, 89, 9664-9670.	6.5	11
38	Linking of pyrolysis-chemical ionisation mass spectrometric and monomer compositional data of 0-(2-hydroxyethyl) celluloses by canonical correlation analysis. Journal of Analytical and Applied Pyrolysis, 1995, 33, 21-38.	5.5	10
39	Experimental Investigation of the 2D Ion Beam Profile Generated by an ESI Octopole-QMS System. Journal of the American Society for Mass Spectrometry, 2014, 25, 1780-1787.	2.8	10
40	Ion Imaging of Native Protein Complexes Using Orthogonal Time-of-Flight Mass Spectrometry and a Timepix Detector. Journal of the American Society for Mass Spectrometry, 2021, 32, 569-580.	2.8	10
41	Direct Ion Imaging Approach for Investigation of Ion Dynamics in Multipole Ion Guides. Analytical Chemistry, 2015, 87, 3714-3720.	6.5	8
42	A micropixelated ion-imaging detector for mass resolution enhancement of a QMS instrument. Analytical and Bioanalytical Chemistry, 2015, 407, 2055-2062.	3.7	7
43	Multiorder Correction Algorithms to Remove Image Distortions from Mass Spectrometry Imaging Data Sets. Analytical Chemistry, 2013, 85, 10249-10254.	6.5	6
44	Evaluating the VLAM-G toolkit on the DAS-2. Future Generation Computer Systems, 2003, 19, 815-824.	7.5	3
45	Detection of Localized Hepatocellular Amino Acid Kinetics by using Mass Spectrometry Imaging of Stable Isotopes. Angewandte Chemie, 2017, 129, 7252-7256.	2.0	3
46	Characterization of microchannel plate detector response for the detection of native multiply charged high mass single ions in orthogonalâ€timeâ€ofâ€flight mass spectrometry using a <scp>Timepix</scp> detector. Journal of Mass Spectrometry, 2022, 57, e4820.	1.6	3
47	An ambient detection system for visualization of charged particles generated with ionization methods at atmospheric pressure. Rapid Communications in Mass Spectrometry, 2016, 30, 352-358.	1.5	2
48	A MASSive Laboratory Tour. An Interactive Mass Spectrometry Outreach Activity for Children. Journal of the American Society for Mass Spectrometry, 2013, 24, 979-982.	2.8	1
49	Abstract 2668: Revealing protein biomarkers in breast tumor models by combining MRSI and MSI.. , 2013, , .		0