

Gert B Eijkel

List of Publications by Year in descending order

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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	Characterization of microchannel plate detector response for the detection of native multiply charged high mass single ions in orthogonal time-of-flight mass spectrometry using a <sc>Timepix</sc> detector. <i>Journal of Mass Spectrometry</i> , 2022, 57, e4820.	1.6	3
2	Mass spectrometry imaging of L-[ring-13C6]-labeled phenylalanine and tyrosine kinetics in non-small cell lung carcinoma. <i>Cancer & Metabolism</i> , 2021, 9, 26.	5.0	18
3	Ion Imaging of Native Protein Complexes Using Orthogonal Time-of-Flight Mass Spectrometry and a Timepix Detector. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 569-580.	2.8	10
4	Integrative Metabolic Pathway Analysis Reveals Novel Therapeutic Targets in Osteoarthritis. <i>Molecular and Cellular Proteomics</i> , 2020, 19, 574-588.	3.8	12
5	Spatial Systems Lipidomics Reveals Nonalcoholic Fatty Liver Disease Heterogeneity. <i>Analytical Chemistry</i> , 2018, 90, 5130-5138.	6.5	44
6	Targeted Drug and Metabolite Imaging: Desorption Electrospray Ionization Combined with Triple Quadrupole Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 13229-13235.	6.5	37
7	Automated, parallel mass spectrometry imaging and structural identification of lipids. <i>Nature Methods</i> , 2018, 15, 515-518.	19.0	158
8	Mass Spectrometry Imaging with Isomeric Resolution Enabled by Ozone-Induced Dissociation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10530-10534.	13.8	143
9	Mass Spectrometry Imaging with Isomeric Resolution Enabled by Ozone-Induced Dissociation. <i>Angewandte Chemie</i> , 2018, 130, 10690-10694.	2.0	28
10	Detection of Localized Hepatocellular Amino Acid Kinetics by using Mass Spectrometry Imaging of Stable Isotopes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7146-7150.	13.8	34
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. <i>Analytical Chemistry</i> , 2017, 89, 7493-7501.	6.5	65
12	Detection of Localized Hepatocellular Amino Acid Kinetics by using Mass Spectrometry Imaging of Stable Isotopes. <i>Angewandte Chemie</i> , 2017, 129, 7252-7256.	2.0	3
13	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 <i>Drosophila melanogaster</i> . <i>Analytical Chemistry</i> , 2017, 89, 9664-9670.	6.5	11
14	Oxygen-Dependent Lipid Profiles of Three-Dimensional Cultured Human Chondrocytes Revealed by MALDI-MSI. <i>Analytical Chemistry</i> , 2017, 89, 9438-9444.	6.5	16
15	An ambient detection system for visualization of charged particles generated with ionization methods at atmospheric pressure. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 352-358.	1.5	2
16	Mass Spectrometry Imaging of Drug Related Crystal-Like Structures in Formalin-Fixed Frozen and Paraffin-Embedded Rabbit Kidney Tissue Sections. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 117-123.	2.8	35
17	The Use of Mass Spectrometry Imaging to Predict Treatment Response of Patient-Derived Xenograft Models of Triple-Negative Breast Cancer. <i>Journal of Proteome Research</i> , 2015, 14, 1069-1075.	3.7	27
18	Protein classification and distribution in osteoarthritic human synovial tissue by matrix-assisted laser desorption ionization mass spectrometry imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2213-2222.	3.7	20

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19	A micropixelated ion-imaging detector for mass resolution enhancement of a QMS instrument. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2055-2062.	3.7	7
20	Differentiation of Mesenchymal Stem Cells under Hypoxia and Normoxia: Lipid Profiles Revealed by Time-of-Flight Secondary Ion Mass Spectrometry and Multivariate Analysis. <i>Analytical Chemistry</i> , 2015, 87, 3981-3988.	6.5	25
21	Direct Ion Imaging Approach for Investigation of Ion Dynamics in Multipole Ion Guides. <i>Analytical Chemistry</i> , 2015, 87, 3714-3720.	6.5	8
22	Characterization of lipidic markers of chondrogenic differentiation using mass spectrometry imaging. <i>Proteomics</i> , 2015, 15, 702-713.	2.2	29
23	Experimental Investigation of the 2D Ion Beam Profile Generated by an ESI Octopole-QMS System. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1780-1787.	2.8	10
24	“Afterlife Experiment” Use of MALDI-MS and SIMS Imaging for the Study of the Nitrogen Cycle within Plants. <i>Analytical Chemistry</i> , 2014, 86, 10071-10077.	6.5	22
25	Chemical imaging of lipid droplets in muscle tissues using hyperspectral coherent Raman microscopy. <i>Histochemistry and Cell Biology</i> , 2014, 141, 263-273.	1.7	35
26	Matrix assisted laser desorption ionization mass spectrometry imaging identifies markers of ageing and osteoarthritic cartilage. <i>Arthritis Research and Therapy</i> , 2014, 16, R110.	3.5	39
27	A MASSive Laboratory Tour. An Interactive Mass Spectrometry Outreach Activity for Children. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 979-982.	2.8	1
28	Multiorde Correction Algorithms to Remove Image Distortions from Mass Spectrometry Imaging Data Sets. <i>Analytical Chemistry</i> , 2013, 85, 10249-10254.	6.5	6
29	Matrix-assisted laser desorption ionization imaging mass spectrometry: A new methodology to study human osteoarthritic cartilage. <i>Arthritis and Rheumatism</i> , 2013, 65, 710-720.	6.7	43
30	Abstract 2668: Revealing protein biomarkers in breast tumor models by combining MRSI and MSI. , 2013, , .		0
31	Time-of-Flight Secondary Ion Mass Spectrometry-Based Molecular Distribution Distinguishing Healthy and Osteoarthritic Human Cartilage. <i>Analytical Chemistry</i> , 2012, 84, 8909-8916.	6.5	78
32	Three-dimensional molecular reconstruction of rat heart with mass spectrometry imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 2927-2938.	3.7	23
33	Hypertension Is Associated with Marked Alterations in Sphingolipid Biology: A Potential Role for Ceramide. <i>PLoS ONE</i> , 2011, 6, e21817.	2.5	151
34	Multimodal Mass Spectrometric Imaging of Small Molecules Reveals Distinct Spatio-Molecular Signatures in Differentially Metastatic Breast Tumor Models. <i>Cancer Research</i> , 2010, 70, 9012-9021.	0.9	69
35	Identifying biomolecular origins of solid organic residues preserved in Iron Age Pottery using DTMS and MVA. <i>Journal of Archaeological Science</i> , 2007, 34, 173-193.	2.4	37
36	Evaluating the VLAM-G toolkit on the DAS-2. <i>Future Generation Computer Systems</i> , 2003, 19, 815-824.	7.5	3

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37	Using Matrix Peaks To Map Topography:Â Increased Mass Resolution and Enhanced Sensitivity in Chemical Imaging. <i>Analytical Chemistry</i> , 2003, 75, 4373-4381.	6.5	33
38	VLAM-G: A Grid-Based Virtual Laboratory. <i>Scientific Programming</i> , 2002, 10, 173-181.	0.7	36
39	Dosimetry of paintings: determination of the degree of chemical change in museum-exposed test paintings by mass spectrometry. <i>Thermochimica Acta</i> , 2000, 365, 1-23.	2.7	30
40	Differential chemical allocation and plant adaptation: A Py-MS Study of 24 species differing in relative growth rate. <i>Plant and Soil</i> , 1995, 175, 275-289.	3.7	19
41	Linking of pyrolysis-chemical ionisation mass spectrometric and monomer compositional data of O-(2-hydroxyethyl) celluloses by canonical correlation analysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 1995, 33, 21-38.	5.5	10
42	Differences in relative growth rate in 11 grasses correlate with differences in chemical composition as determined by pyrolysis mass spectrometry. <i>Oecologia</i> , 1992, 89, 567-573.	2.0	68
43	A microanalytical approach to plant tissue characterization: A comparative study of healthy and fungus-infected carnation by pyrolysis-mass spectrometry. <i>Journal of Analytical and Applied Pyrolysis</i> , 1991, 19, 213-236.	5.5	17
44	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. <i>Journal of Analytical and Applied Pyrolysis</i> , 1991, 20, 303-319.	5.5	71
45	Curie-point pyrolysis-capillary gas chromatography-high-resolution mass spectrometry of microcrystalline cellulose. <i>Journal of Analytical and Applied Pyrolysis</i> , 1989, 14, 237-280.	5.5	319
46	Evidence for oligomers in pyrolysates of microcrystalline cellulose. <i>Journal of Analytical and Applied Pyrolysis</i> , 1989, 15, 71-84.	5.5	56
47	A pyrolysis-mass spectrometry investigation of pectin methylation. <i>Analytical Chemistry</i> , 1988, 60, 1498-1502.	6.5	27
48	Pyrolysis high-resolution gas chromatography-mass spectrometry studies on beech wood: capillary high-resolution mass spectrometry of a beech lignin fraction. <i>Biochemical Society Transactions</i> , 1987, 15, 170-174.	3.4	94
49	Characterisation of beech wood and its holocellulose and xylan fractions by pyrolysis-gas chromatography-mass spectrometry. <i>Journal of Analytical and Applied Pyrolysis</i> , 1987, 11, 417-436.	5.5	153