Bernhard Spengler

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/7266589/bernhard-spengler-publications-by-year.pdf

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

166 papers 6,989 citations

48 h-index 80 g-index

177 ext. papers

7,849 ext. citations

5.5 avg, IF

6.25 L-index

#	Paper	IF	Citations
166	Spatial visualization of drug uptake and distribution in Fasciola hepatica using high-resolution AP-SMALDI mass spectrometry imaging <i>Parasitology Research</i> , 2022 , 121, 1145	2.4	О
165	Sequential lipidomic, metabolomic, and proteomic analyses of serum, liver, and heart tissue specimens from peroxisomal biogenesis factor 11 knockout mice <i>Analytical and Bioanalytical Chemistry</i> , 2022 , 414, 2235	4.4	2
164	Changes in the lipid profile of hamster liver after Schistosoma mansoni infection, characterized by mass spectrometry imaging and LC-MS/MS analysis <i>Analytical and Bioanalytical Chemistry</i> , 2022 , 1	4.4	O
163	Bildgebende Massenspektrometrie 2022 , 423-431		
162	Sphingolipids control dermal fibroblast heterogeneity Science, 2022, 376, eabh1623	33.3	2
161	Potentially Poisonous Plastic Particles: Microplastics as a Vector for Cyanobacterial Toxins Microcystin-LR and Microcystin-LF. <i>Environmental Science & Environmental Science</i>	10.3	4
160	5Alkylresorcinol Profiles in Different Cultivars of Einkorn, Emmer, Spelt, Common Wheat, and Tritordeum. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 14092-14102	5.7	1
159	Comparative lipid profiling of murine and human atherosclerotic plaques using high-resolution MALDI MSI. <i>Pflugers Archiv European Journal of Physiology</i> , 2021 , 1	4.6	1
158	Implementation of a High-Repetition-Rate Laser in an AP-SMALDI MSI System for Enhanced Measurement Performance. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 465-472	3.5	4
157	High-resolution AP-SMALDI MSI as a tool for drug imaging in Schistosoma mansoni. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 2755-2766	4.4	4
156	Venom Gland Mass Spectrometry Imaging of Saw-Scaled Viper, , at High Lateral Resolution. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 1105-1115	3.5	O
155	Comparative proteomic approach to study the salinity effect on the growth of two contrasting quinoa genotypes. <i>Plant Physiology and Biochemistry</i> , 2021 , 163, 215-229	5.4	1
154	LPS Primes Brain Responsiveness to High Mobility Group Box-1 Protein. <i>Pharmaceuticals</i> , 2021 , 14,	5.2	2
153	Mycotoxin Uptake in Wheat - Eavesdropping Presence for Priming Plant Defenses or a Trojan Horse to Weaken Them?. <i>Frontiers in Plant Science</i> , 2021 , 12, 711389	6.2	1
152	Integrating Top-Down and Bottom-Up Mass Spectrometric Strategies for Proteomic Profiling of Iranian Saw-Scaled Viper, , Venom. <i>Journal of Proteome Research</i> , 2021 , 20, 895-908	5.6	5
151	Development of a handheld liquid extraction pen for on-site mass spectrometric analysis of daily goods. <i>Analyst, The</i> , 2021 , 146, 3004-3015	5	2
150	On-line and off-line analysis of particles from rock, sediment, sand, snow water and atmospheric air at the Jungfraujoch site, using single-particle laser mass spectrometry. <i>Aerosol Science and Technology</i> , 2021 , 55, 552-570	3.4	

149	3D-surface MALDI mass spectrometry imaging for visualising plant defensive cardiac glycosides in Asclepias curassavica. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 2125-2134	4.4	3
148	Unveiling the spatial distribution of aflatoxin B1 and plant defense metabolites in maize using AP-SMALDI mass spectrometry imaging. <i>Plant Journal</i> , 2021 , 106, 185-199	6.9	3
147	Identification of intact peptides by top-down peptidomics reveals cleavage spots in thermolabile wine proteins. <i>Food Chemistry</i> , 2021 , 363, 130437	8.5	3
146	Tissue- and sex-specific lipidomic analysis of Schistosoma mansoni using high-resolution atmospheric pressure scanning microprobe matrix-assisted laser desorption/ionization mass spectrometry imaging. <i>PLoS Neglected Tropical Diseases</i> , 2020 , 14, e0008145	4.8	6
145	Autarkic desorption electrospray ionization source for on-site analysis of consumer goods. <i>Analyst, The,</i> 2020 , 145, 5584-5593	5	1
144	Spermidine and other functional phytochemicals in soybean seeds: Spatial distribution as visualized by mass spectrometry imaging. <i>Food Science and Nutrition</i> , 2020 , 8, 675-682	3.2	7
143	Parasiten im Massenspektrometer. <i>Nachrichten Aus Der Chemie</i> , 2020 , 68, 68-71	0.1	
142	Single Cell Analysis by High-Resolution Atmospheric-Pressure MALDI MS Imaging. <i>Methods in Molecular Biology</i> , 2020 , 2064, 103-111	1.4	4
141	Spatial metabolomics of in situ host-microbe interactions at the micrometre scale. <i>Nature Microbiology</i> , 2020 , 5, 498-510	26.6	52
140	Atmospheric-Pressure MALDI Mass Spectrometry Imaging at 213 nm Laser Wavelength. <i>Journal of the American Society for Mass Spectrometry</i> , 2020 , 31, 326-335	3.5	7
139	Intracellular Parasites and , Unveiled in Single Host Cells Using AP-SMALDI MS Imaging. <i>Journal of the American Society for Mass Spectrometry</i> , 2020 , 31, 1815-1824	3.5	4
138	Targeting Kinases in : Anthelminthic Effects and Tissue Distribution of Selected Kinase Inhibitors. <i>Frontiers in Veterinary Science</i> , 2020 , 7, 611270	3.1	1
137	Visualizing and Profiling Lipids in the OVLT of Fat-1 and Wild Type Mouse Brains during LPS-Induced Systemic Inflammation Using AP-SMALDI MSI. <i>ACS Chemical Neuroscience</i> , 2019 , 10, 4394-4	14 ⁵ 0 ⁷ 6	3
136	High-resolution atmospheric-pressure MALDI mass spectrometry imaging workflow for lipidomic analysis of late fetal mouse lungs. <i>Scientific Reports</i> , 2019 , 9, 3192	4.9	12
135	Lipid Topography in Schistosoma mansoni Cryosections, Revealed by Microembedding and High-Resolution Atmospheric-Pressure Matrix-Assisted Laser Desorption/Ionization (MALDI) Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2019 , 91, 4520-4528	7.8	13
134	A perspective view of top-down proteomics in snake venom research. <i>Rapid Communications in Mass Spectrometry</i> , 2019 , 33 Suppl 1, 20-27	2.2	15
133	Reactive Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging Using an Intrinsically Photoreactive Patern Matrix for Double-Bond Localization in Isomeric Phospholipids. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11816-11820	16.4	70
132	Combinatorial Synthesis of Peptoid Arrays via Laser-Based Stacking of Multiple Polymer Nanolayers. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1800533	4.8	12

131	Robustness of the non-neuronal cholinergic system in rat large intestine against luminal challenges. <i>Pflugers Archiv European Journal of Physiology</i> , 2019 , 471, 605-618	4.6	3
130	Ambient-air ozonolysis of triglycerides in aged fingerprint residues. <i>Analyst, The</i> , 2018 , 143, 1197-1209	5	23
129	Reactive low temperature plasma ionization mass spectrometry for the determination of organic UV filters in personal care products. <i>Talanta</i> , 2018 , 178, 780-787	6.2	8
128	Approaching cellular resolution and reliable identification in mass spectrometry imaging of tryptic peptides. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 5825-5837	4.4	20
127	Strategy for marker-based differentiation of pro- and anti-inflammatory macrophages using matrix-assisted laser desorption/ionization mass spectrometry imaging. <i>Analyst, The</i> , 2018 , 143, 4273-4.	282	1
126	Effects of wavelength, fluence, and dose on fragmentation pathways and photoproduct ion yield in 213 nm and 266 nm ultraviolet photodissociation experiments. <i>European Journal of Mass Spectrometry</i> , 2018 , 24, 54-65	1.1	5
125	Histology-guided high-resolution AP-SMALDI mass spectrometry imaging of wheat- interaction at the root-shoot junction. <i>Plant Methods</i> , 2018 , 14, 103	5.8	8
124	Quantitative lipidomic analysis of mouse lung during postnatal development by electrospray ionization tandem mass spectrometry. <i>PLoS ONE</i> , 2018 , 13, e0203464	3.7	15
123	Analysis of ketone-based neurosteroids by reactive low-temperature plasma mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2018 , 32, 1439-1450	2.2	3
122	Imaging of Lipids in Native Human Bone Sections Using TOF-Secondary Ion Mass Spectrometry, Atmospheric Pressure Scanning Microprobe Matrix-Assisted Laser Desorption/Ionization Orbitrap Mass Spectrometry, and Orbitrap-Secondary Ion Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 885	7.8 6-886	24 4
121	Method development towards qualitative and semi-quantitative analysis of multiple pesticides from food surfaces and extracts by desorption electrospray ionization mass spectrometry as a preselective tool for food control. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 2107-2117	4.4	26
120	A New Immunomodulatory Role for Peroxisomes in Macrophages Activated by the TLR4 Ligand Lipopolysaccharide. <i>Journal of Immunology</i> , 2017 , 198, 2414-2425	5.3	23
119	High-resolution AP-SMALDI mass spectrometry imaging of Drosophila melanogaster. <i>International Journal of Mass Spectrometry</i> , 2017 , 416, 1-19	1.9	19
118	Rapid fingerprinting of lignin by ambient ionization high resolution mass spectrometry and simplified data mining. <i>Analytica Chimica Acta</i> , 2017 , 994, 38-48	6.6	11
117	Autofocusing MALDI mass spectrometry imaging of tissue sections and 3D chemical topography of nonflat surfaces. <i>Nature Methods</i> , 2017 , 14, 1156-1158	21.6	74
116	Real-Time Food Authentication Using a Miniature Mass Spectrometer. <i>Analytical Chemistry</i> , 2017 , 89, 10717-10725	7.8	48
115	Atmospheric pressure MALDI mass spectrometry imaging of tissues and cells at 1.4-th lateral resolution. <i>Nature Methods</i> , 2017 , 14, 90-96	21.6	283
114	High-resolution MALDI mass spectrometry imaging of gallotannins and monoterpene glucosides in the root of Paeonia lactiflora. <i>Scientific Reports</i> , 2016 , 6, 36074	4.9	24

(2014-2016)

desorption/ionization mass spectrometric imaging at high mass and high spatial resolution. Proteomics, 2016, 16, 1822-4	4.8	3
Fatty Acid Structure and Degradation Analysis in Fingerprint Residues. <i>Journal of the American Society for Mass Spectrometry</i> , 2016 , 27, 1565-74	3.5	28
C?H Bond Arylation of Diamondoids Catalyzed by Palladium(II) Acetate. <i>Advanced Synthesis and Catalysis</i> , 2016 , 358, 2163-2171	5.6	15
Mass spectrometry imaging of biomarker lipids for phagocytosis and signalling during focal cerebral ischaemia. <i>Scientific Reports</i> , 2016 , 6, 39571	4.9	49
Epithelial propionyl- and butyrylcholine as novel regulators of colonic ion transport. <i>British Journal of Pharmacology</i> , 2016 , 173, 2766-79	8.6	8
Mass spectrometry imaging of biological tissue: an approach for multicenter studies. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 2329-35	4.4	31
Metabolite localization by atmospheric pressure high-resolution scanning microprobe matrix-assisted laser desorption/ionization mass spectrometry imaging in whole-body sections and individual organs of the rove beetle Paederus riparius. <i>Analytical and Bioanalytical Chemistry</i> , 2015 ,	4.4	40
A public repository for mass spectrometry imaging data. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 2027-33	4.4	27
Uptake and bioavailability of anthocyanins and phenolic acids from grape/blueberry juice and smoothie in vitro and in vivo. <i>British Journal of Nutrition</i> , 2015 , 113, 1044-55	3.6	71
Phospholipid Topography of Whole-Body Sections of the Anopheles stephensi Mosquito, Characterized by High-Resolution Atmospheric-Pressure Scanning Microprobe Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2015 , 87, 11309-16	7.8	31
Spatially resolved investigation of systemic and contact pesticides in plant material by desorption electrospray ionization mass spectrometry imaging (DESI-MSI). <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 7379-89	4.4	26
DESI MS based screening method for phthalates in consumer goods. <i>Analyst, The</i> , 2015 , 140, 3484-91	5	13
High resolution mass spectrometry imaging of plant tissues: towards a plant metabolite atlas. <i>Analyst, The</i> , 2015 , 140, 7696-709	5	57
Mass spectrometry imaging of biomolecular information. <i>Analytical Chemistry</i> , 2015 , 87, 64-82	7.8	185
Characterization of novel insect associated peptidases for hydrolysis of food proteins. <i>European Food Research and Technology</i> , 2015 , 240, 431-439	3.4	13
UV-Irradiation of the Antibiotic Sulfathiazole Surprisingly Leads to Former Antituberculotic Promizole. <i>Clean - Soil, Air, Water</i> , 2015 , 43, 490-495	1.6	2
Protein and Peptide Composition of Male Accessory Glands of Apis mellifera Drones Investigated by Mass Spectrometry. <i>PLoS ONE</i> , 2015 , 10, e0125068	3.7	13
Proteomics study of silver nanoparticles toxicity on Bacillus thuringiensis. <i>Ecotoxicology and Environmental Safety</i> , 2014 , 100, 122-30	7	40
	desorption/ionization mass spectrometric imaging at high mass and high spatial resolution. Proteomics, 2016, 16, 1822-4 Fatty Acid Structure and Degradation Analysis in Fingerprint Residues. Journal of the American Society for Mass Spectrometry, 2016, 27, 1565-74 C7H Bond Arylation of Diamondoids Catalyzed by Palladium(II) Acetate. Advanced Synthesis and Catalysis, 2016, 358, 2163-2171 Mass spectrometry imaging of biomarker lipids for phagocytosis and signalling during focal cerebral ischaemia. Scientific Reports, 2016, 6, 39571 Epithelial propionyl- and butyrylcholine as novel regulators of colonic ion transport. British Journal of Pharmacology, 2016, 173, 2766-79 Mass spectrometry imaging of biological tissue: an approach for multicenter studies. Analytical and Bioanalytical Chemistry, 2015, 407, 2329-35 Metabolite localization by atmospheric pressure high-resolution scanning microprobe matrix-assisted laser desorption/ionization mass spectrometry imaging in whole-body sections and individual organs of the rove beetle Paederus riparius. Analytical and Bioanalytical Chemistry, 2015, 407, 2027-33 Uptake and bioavailability of anthocyanins and phenolic acids from grape/blueberry juice and smoothie in vitro and in vivo. British Journal of Nutrition, 2015, 113, 1044-55 Phospholipid Topography of Whole-Body Sections of the Anopheles stephensi Mosquito, Characterized by High-Resolution Atmospheric-Pressure Scanning Microprobe Matrix-Assisted Laser Desorption/lonization mass spectrometry imaging, Analytical Chemistry, 2015, 87, 11309-16 Spatially resolved investigation of systemic and contact pesticides in plant material by desorption electrospray ionization mass spectrometry imaging (DESI-MSI). Analytical and Bioanalytical Chemistry, 2015, 407, 7379-89 DESI MS based screening method for phthalates in consumer goods. Analyst, The, 2015, 140, 3484-91 High resolution mass spectrometry imaging of plant tissues: towards a plant metabolite atlas. Analyst, The, 2015, 140, 7696-709 Mass spectrometry	desorption/fonization mass spectrometric imaging at high mass and high spatial resolution. Proteomics, 2016, 16, 1822-4 Fatty Acid Structure and Degradation Analysis in Fingerprint Residues. Journal of the American Society for Mass Spectrometry, 2016, 27, 1565-74 C?H Bond Arylation of Diamondoids Catalyzed by Palladium(II) Acetate. Advanced Synthesis and Catalysis, 2016, 358, 2163-2171 Mass Spectrometry imaging of biomarker lipids for phagocytosis and signalling during focal cerebral ischaemia. Scientific Reports, 2016, 6, 39571 Epithelial propionyl- and butyry(cholline as novel regulators of colonic ion transport. British Journal of Pharmacology, 2016, 173, 2766-79 Mass spectrometry imaging of biological tissue: an approach for multicenter studies. Analytical and Bioanalytical Chemistry, 2015, 407, 2329-35 Metabolite localization by atmospheric pressure high-resolution scanning microprobe matrix-assisted laser desorption/ionization mass spectrometry imaging in whole-body sections and individual organs of the rove beetle Paedervis riparius. Analytical and Bioanalytical Chemistry, 2015, 407, 2027-33 44 Uptake and bioavailability of anthocyanins and phenolic acids from grape/blueberry juice and smoothie in vitro and in vivo. British Journal of Nutrition, 2015, 113, 1044-55 Phospholipid Tropography of Whole-Body Sections of the Anopheles stephensi Mosquito, Characterized by High-Resolution Atmospheric-Pressure Scanning Microprobe Matrix-Assisted Laser Desorption/ionization Mass Spectrometry imaging, Analytical chemistry, 2015, 87, 11309-16 Spatially resolved investigation of systemic and conatca pesticides in plant material by desorption electrospray ionization mass spectrometry imaging (DESI-MSI). Analytical and Bioanalytical Chemistry, 2015, 87, 1309-16 Mass spectrometry imaging of plant tissues: towards a plant metabolite atlas. Analyst, The, 2015, 140, 7696-709 Mass spectrometry imaging of biomolecular information. Analytical Chemistry, 2015, 87, 64-82 Protein and Peptide Composition of Male Acces

95	Proteomics study of silver nanoparticles toxicity on Oryza sativa L. <i>Ecotoxicology and Environmental Safety</i> , 2014 , 108, 335-9	7	115
94	Natural products in Glycyrrhiza glabra (licorice) rhizome imaged at the cellular level by atmospheric pressure matrix-assisted laser desorption/ionization tandem mass spectrometry imaging. <i>Plant Journal</i> , 2014 , 80, 161-71	6.9	54
93	Identification of T cell receptor signaling pathway proteins in a feline large granular lymphoma cell line by liquid chromatography tandem mass spectrometry. <i>Veterinary Immunology and Immunopathology</i> , 2014 , 161, 116-21	2	3
92	Software tools of the Computis European project to process mass spectrometry images. <i>European Journal of Mass Spectrometry</i> , 2014 , 20, 351-60	1.1	19
91	A comprehensive high-resolution mass spectrometry approach for characterization of metabolites by combination of ambient ionization, chromatography and imaging methods. <i>Rapid Communications in Mass Spectrometry</i> , 2014 , 28, 1779-91	2.2	25
90	Analysis of cyathane-type diterpenoids from Cyathus striatus and Hericium erinaceus by high-resolution MALDI MS imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 695-704	4.4	31
89	High-resolution atmospheric pressure infrared laser desorption/ionization mass spectrometry imaging of biological tissue. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 6959-68	4.4	30
88	ESI hydrogen/deuterium exchange can count chemical forms of heteroatom-bound hydrogen. Angewandte Chemie - International Edition, 2013, 52, 8973-5	16.4	4
87	Mass spectrometry imaging with high resolution in mass and space. <i>Histochemistry and Cell Biology</i> , 2013 , 139, 759-83	2.4	255
86	Petroleum crude oil analysis using low-temperature plasma mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013 , 27, 825-34	2.2	41
85	Ambient ion/molecule reactions in low-temperature plasmas (LTP): reactive LTP mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013 , 27, 795-804	2.2	13
84	Abzfilen von chemisch unterschiedlichen labilen Wasserstoffatomen Ber Wasserstoff-Deuterium-Austausch in einer ESI-Quelle. <i>Angewandte Chemie</i> , 2013 , 125, 9143-9145	3.6	
83	MALDI-Mass Spectrometry Imaging 2013 , 133-167		1
82	High-resolution mass spectrometry driven discovery of peptidic danger signals in insect immunity. <i>PLoS ONE</i> , 2013 , 8, e80406	3.7	13
81	imzMLa common data format for the flexible exchange and processing of mass spectrometry imaging data. <i>Journal of Proteomics</i> , 2012 , 75, 5106-5110	3.9	214
80	High-resolution matrix-assisted laser desorption/ionization imaging of tryptic peptides from tissue. <i>Rapid Communications in Mass Spectrometry</i> , 2012 , 26, 1141-6	2.2	63
79	Single cell matrix-assisted laser desorption/ionization mass spectrometry imaging. <i>Analytical Chemistry</i> , 2012 , 84, 6293-7	7.8	155
78	Effects of Unripened Cheese Supplements on Lipid and Antioxidant Status in Hypercholesterolemic SD Rats. <i>Journal of the Korean Society of Food Science and Nutrition</i> , 2012 , 41, 65-72	1.5	1

77	Silicon-(thio)urea Lewis acid catalysis. Journal of the American Chemical Society, 2011, 133, 7624-7	16.4	45
76	Characterization of vertical aerosol flows by single particle mass spectrometry for micrometeorological analysis. <i>Atmospheric Research</i> , 2011 , 102, 49-56	5.4	2
75	Analysis of cyclotides in Viola ignobilis by Nano liquid chromatography fourier transform mass spectrometry. <i>Protein and Peptide Letters</i> , 2011 , 18, 747-52	1.9	8
74	AP-MALDI imaging of neuropeptides in mouse pituitary gland with 5 th spatial resolution and high mass accuracy. <i>International Journal of Mass Spectrometry</i> , 2011 , 305, 228-237	1.9	92
73	In situ, real-time identification of biological tissues by ultraviolet and infrared laser desorption ionization mass spectrometry. <i>Analytical Chemistry</i> , 2011 , 83, 1632-40	7.8	72
72	Mass spectrometry imaging with high resolution in mass and space (HR(2) MSI) for reliable investigation of drug compound distributions on the cellular level. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 65-73	4.4	123
71	Characterization of surgical aerosols by the compact single-particle mass spectrometer LAMPAS 3. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 3165-72	4.4	9
7º	Electrospray post-ionization mass spectrometry of electrosurgical aerosols. <i>Journal of the American Society for Mass Spectrometry</i> , 2011 , 22, 2082-9	3.5	18
69	Protein identification by accurate mass matrix-assisted laser desorption/ionization imaging of tryptic peptides. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 2475-83	2.2	54
68	imzML: Imaging Mass Spectrometry Markup Language: A common data format for mass spectrometry imaging. <i>Methods in Molecular Biology</i> , 2011 , 696, 205-24	1.4	47
67	Controlling the enzymatic activity of a restriction enzyme by light. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 1361-6	11.5	141
66	Monitoring of Paclitaxel, Taxine B and 10-Deacethylbaccatin III in Taxus baccata L. by Nano LCETMS and NMR Spectroscopy. <i>Chromatographia</i> , 2010 , 72, 833-839	2.1	3
65	Isolation and sequence analysis of peptides from the skin secretion of the Middle East tree frog Hyla savignyi. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 2853-65	4.4	4
64	Massenspektrometrische Histologie: markierungsfreie Gewebecharakterisierung durch hochgenaue bildgebende Bioanalytik. <i>Angewandte Chemie</i> , 2010 , 122, 3923-3927	3.6	12
63	Histology by mass spectrometry: label-free tissue characterization obtained from high-accuracy bioanalytical imaging. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3834-8	16.4	169
62	Laser spot size and laser power dependence of ion formation in high resolution MALDI imaging. <i>International Journal of Mass Spectrometry</i> , 2010 , 294, 7-15	1.9	73
61	Matrix vapor deposition/recrystallization and dedicated spray preparation for high-resolution scanning microprobe matrix-assisted laser desorption/ionization imaging mass spectrometry (SMALDI-MS) of tissue and single cells. <i>Rapid Communications in Mass Spectrometry</i> , 2010 , 24, 355-64	2.2	139
60	Characterization of a peptide family from the skin secretion of the Middle East tree frog Hyla savignyi by composition-based de novo sequencing. <i>Rapid Communications in Mass Spectrometry</i> , 2010 , 24, 2885-99	2.2	13

59	Evaluation of the photodegradation of crystal violet upon light exposure by mass spectrometric and spectroscopic methods. <i>Journal of Forensic Sciences</i> , 2009 , 54, 339-45	1.8	42
58	Identification of collagen IV derived danger/alarm signals in insect immunity by nanoLC-FTICR MS. <i>Biological Chemistry</i> , 2009 , 390, 1303-11	4.5	19
57	A high-resolution scanning microprobe matrix-assisted laser desorption/ionization ion source for imaging analysis on an ion trap/Fourier transform ion cyclotron resonance mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 3275-85	2.2	124
56	Crystalline degradation products of vancomycin as chiral stationary phase in microcolumn liquid chromatography. <i>Journal of Separation Science</i> , 2008 , 31, 2339-45	3.4	8
55	Mass-based classification (MBC) of peptides: highly accurate precursor ion mass values can be used to directly recognize peptide phosphorylation. <i>Journal of the American Society for Mass Spectrometry</i> , 2008 , 19, 1808-12	3.5	14
54	The potential of artificial aging for modelling of natural aging processes of ballpoint ink. <i>Forensic Science International</i> , 2008 , 180, 23-31	2.6	28
53	Monitoring of N-nitrosodiethanolamine in cosmetic products by ion-pair complex liquid chromatography and identification with negative ion electrospray ionization mass spectrometry. <i>Journal of Chromatography A</i> , 2008 , 1185, 43-8	4.5	20
52	Instrumentation, data evaluation and quantification in on-line aerosol mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2007 , 42, 843-60	2.2	61
51	Artifacts of MALDI sample preparation investigated by high-resolution scanning microprobe matrix-assisted laser desorption/ionization (SMALDI) imaging mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2007 , 266, 129-137	1.9	52
50	Identification of leptomeningeal metastasis-related proteins in cerebrospinal fluid of patients with breast cancer by a combination of MALDI-TOF, MALDI-FTICR and nanoLC-FTICR MS. <i>Proteomics</i> , 2007 , 7, 474-81	4.8	47
49	Differentiation of blue ballpoint pen inks by laser desorption ionization mass spectrometry and high-performance thin-layer chromatography. <i>Journal of Forensic Sciences</i> , 2007 , 52, 216-20	1.8	72
48	A GC/MS study of the drying of ballpoint pen ink on paper. Forensic Science International, 2007, 168, 119	9-28	69
47	Comparative parallel characterization of particle populations with two mass spectrometric systems LAMPAS 2 and SPASS. <i>International Journal of Mass Spectrometry</i> , 2006 , 258, 151-166	1.9	17
46	Direct protein identification from nonspecific peptide pools by high-accuracy MS data filtering. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 3317-9	16.4	14
45	Direct Protein Identification from Nonspecific Peptide Pools by High-Accuracy MS Data Filtering. <i>Angewandte Chemie</i> , 2006 , 118, 3395-3397	3.6	
44	Identifying an interaction site between MutH and the C-terminal domain of MutL by crosslinking, affinity purification, chemical coding and mass spectrometry. <i>Nucleic Acids Research</i> , 2006 , 34, 3169-80	20.1	40
43	Protein Arrays as Tools for Detection of Protein-Protein Interactions by Mass Spectrometry 2006 , 725-7	'27	
42	Effective solvation of alkaline earth ions by proline-rich proteolytic peptides of galectin-3 upon electrospray ionisation. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 2404-10	2.2	11

(1996-2006)

41	Photofading of ballpoint dyes studied on paper by LDI and MALDI MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2006 , 17, 297-306	3.5	77
40	Aerosol single particle composition at the Jungfraujoch. <i>Journal of Aerosol Science</i> , 2005 , 36, 123-145	4.3	52
39	Direct readout of protein-protein interactions by mass spectrometry from protein-DNA microarrays. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 7635-9	16.4	43
38	Direkter Nachweis von Protein-Protein-Wechselwirkungen durch Massenspektrometrie an Protein-DNA-Mikroarrays. <i>Angewandte Chemie</i> , 2005 , 117, 7808-7812	3.6	14
37	Initial velocity distributions of ions generated by in-flight laser desorption/ionization of individual polystyrene latex microparticles as studied by the delayed ion extraction method. <i>Rapid Communications in Mass Spectrometry</i> , 2005 , 19, 133-46	2.2	17
36	Mapping protein-protein interactions between MutL and MutH by cross-linking. <i>Journal of Biological Chemistry</i> , 2004 , 279, 49338-45	5.4	47
35	De novo sequencing, peptide composition analysis, and composition-based sequencing: a new strategy employing accurate mass determination by fourier transform ion cyclotron resonance mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2004 , 15, 703-14	3.5	132
34	On the formation of initial ion velocities in matrix-assisted laser desorption ionization: Virtual desorption time as an additional parameter describing ion ejection dynamics. <i>International Journal of Mass Spectrometry</i> , 2003 , 226, 71-83	1.9	28
33	Scanning microprobe matrix-assisted laser desorption ionization (SMALDI) mass spectrometry: instrumentation for sub-micrometer resolved LDI and MALDI surface analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2002 , 13, 735-48	3.5	236
32	Isotopic Deconvolution of Matrix-Assisted Laser Desorption/Ionization Mass Spectra for Substance-Class Specific Analysis of Complex Samples. <i>European Journal of Mass Spectrometry</i> , 2001 , 7, 39-46	1.1	39
31	The Basics of Matrix-Assisted Laser Desorption, Ionisation Time-of-Flight Mass Spectrometry and Post-Source Decay Analysis. <i>Principles and Practice</i> , 2001 , 33-53		4
30	Sequencing of peptides phosphorylated on serines and threonines by post-source decay in matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Journal of Mass Spectrometry</i> , 1999 , 34, 1195-204	2.2	38
29	Direct sequencing of neuropeptides in biological tissue by MALDI-PSD mass spectrometry. <i>Analytical Chemistry</i> , 1999 , 71, 660-6	7.8	55
28	Identification of phosphorylated proteins from thrombin-activated human platelets isolated by two-dimensional gel electrophoresis by electrospray ionization-tandem mass spectrometry (ESI-MS/MS) and liquid chromatography-electrospray ionization-mass spectrometry (LC-ESI-MS).	3.6	70
27	Peptide sequencing of charged derivatives by postsource decay MALDI mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997 , 169-170, 127-140		63
26	Post-source decay analysis in matrix-assisted laser desorption/ionization mass spectrometry of biomolecules. <i>Journal of Mass Spectrometry</i> , 1997 , 32, 1019-1036	2.2	298
25	New instrumental approaches to collision-induced dissociation using a time-of-flight instrument. <i>Methods in Molecular Biology</i> , 1996 , 61, 43-56	1.4	8
24	Simultaneous Detection of Positive and Negative Ions From Single Airborne Particles by Real-time Laser Mass Spectrometry. <i>Aerosol Science and Technology</i> , 1996 , 24, 233-242	3.4	102

23	Post-source decay and delayed extraction in matrix-assisted laser desorption/ionization-reflectron time-of-flight mass spectrometry. Are there trade-offs?. <i>Rapid Communications in Mass Spectrometry</i> , 1996 , 10, 1199-208	2.2	107
22	Airborne Particle Analysis. <i>Science</i> , 1996 , 274, 1996-1996	33.3	
21	Airborne Particle Analysis. <i>Science</i> , 1996 , 274, 1996-1996	33.3	
20	Dynamical parameters of ion ejection and ion formation in matrix- assisted laser desorption/ionization. <i>European Journal of Mass Spectrometry</i> , 1995 , 1, 81		77
19	Structure analysis of branched oligosaccharides using post-source decay in matrix-assisted laser desorption ionization mass spectrometry. <i>Organic Mass Spectrometry</i> , 1994 , 29, 782-787		44
18	Laser-Induced Mass Analysis of Single Particles in the Airborne State. <i>Analytical Chemistry</i> , 1994 , 66, 20	7 1. 207	'6 92
17	On-target deuteration for peptide sequencing by laser mass spectrometry. <i>Organic Mass Spectrometry</i> , 1993 , 28, 1482-1490		54
16	Angular and time resolved intensity distributions of laser-desorbed matrix ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993 , 82, 379-385	1.2	50
15	Fundamental aspects of postsource decay in matrix-assisted laser desorption mass spectrometry. 1. Residual gas effects. <i>The Journal of Physical Chemistry</i> , 1992 , 96, 9678-9684		133
14	Secondary-ion generation from large keV molecular primary ions incident on a stainless-steel dynode. <i>Rapid Communications in Mass Spectrometry</i> , 1992 , 6, 98-104	2.2	24
13	Peptide sequencing by matrix-assisted laser-desorption mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1992 , 6, 105-8	2.2	275
12	Metastable decay of peptides and proteins in matrix-assisted laser-desorption mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1991 , 5, 198-202	2.2	200
11	On the Detectability of Low Velocity High Mass Ions in Matrix Assisted Laser Desorption TOF-MS. <i>NATO ASI Series Series B: Physics</i> , 1991 , 235-245		2
10	Molecular weight determination of underivatized oligodeoxyribonucleotides by positive-ion matrix-assisted ultraviolet laser-desorption mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1990 , 4, 99-102	2.2	79
9	The detection of large molecules in matrix-assisted UV-laser desorption. <i>Rapid Communications in Mass Spectrometry</i> , 1990 , 4, 301-305	2.2	53
8	Ultraviolet laser desorption/ionization mass spectrometry of proteins above 100,000 daltons by pulsed ion extraction time-of-flight analysis. <i>Analytical Chemistry</i> , 1990 , 62, 793-6	7.8	117
7	Infrared laser desorption mass spectrometry of oligosaccharides: fragmentation mechanisms and isomer analysis. <i>Analytical Chemistry</i> , 1990 , 62, 1731-1737	7.8	108
6	Microprobing and Imaging MALDI for Biomarker Detection109-130		1

LIST OF PUBLICATIONS

5 MALDI Postsource Decay Mass Analysis197-211

4	AP-MALDI MSI of lipids in mouse brain tissue sections. <i>Protocol Exchange</i> ,	3
3	Chemical and topographical 3D surface profiling using atmospheric pressure LDI and MALDI MS imaging. <i>Protocol Exchange</i> ,	4
2	METASPACE: A community-populated knowledge base of spatial metabolomes in health and disease	21
1	Sphingolipid Control of Fibroblast Heterogeneity Revealed by Single-Cell Lipidomics	4