Bernhard Spengler

List of Publications by Citations

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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	Post-source decay analysis in matrix-assisted laser desorption/ionization mass spectrometry of biomolecules. *Journal of Mass Spectrometry*, **1997**, 32, 1019-1036	2.2	298
165	Atmospheric pressure MALDI mass spectrometry imaging of tissues and cells at 1.4-μm lateral resolution. *Nature Methods*, **2017**, 14, 90-96	21.6	283
164	Peptide sequencing by matrix-assisted laser-desorption mass spectrometry. *Rapid Communications in Mass Spectrometry*, **1992**, 6, 105-8	2.2	275
163	Mass spectrometry imaging with high resolution in mass and space. *Histochemistry and Cell Biology*, **2013**, 139, 759-83	2.4	255
162	Scanning microprobe matrix-assisted laser desorption ionization (SMALDI) mass spectrometry: instrumentation for sub-micrometer resolved LDI and MALDI surface analysis. *Journal of the American Society for Mass Spectrometry*, **2002**, 13, 735-48	3.5	236
161	imzML--a common data format for the flexible exchange and processing of mass spectrometry imaging data. *Journal of Proteomics*, **2012**, 75, 5106-5110	3.9	214
160	Metastable decay of peptides and proteins in matrix-assisted laser-desorption mass spectrometry. *Rapid Communications in Mass Spectrometry*, **1991**, 5, 198-202	2.2	200
159	Mass spectrometry imaging of biomolecular information. *Analytical Chemistry*, **2015**, 87, 64-82	7.8	185
158	Histology by mass spectrometry: label-free tissue characterization obtained from high-accuracy bioanalytical imaging. *Angewandte Chemie - International Edition*, **2010**, 49, 3834-8	16.4	169
157	Single cell matrix-assisted laser desorption/ionization mass spectrometry imaging. *Analytical Chemistry*, **2012**, 84, 6293-7	7.8	155
156	Controlling the enzymatic activity of a restriction enzyme by light. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 1361-6	11.5	141
155	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. *Rapid Communications in Mass Spectrometry*, **2010**, 24, 355-64	2.2	139
154	Fundamental aspects of postsource decay in matrix-assisted laser desorption mass spectrometry. 1. Residual gas effects. *The Journal of Physical Chemistry*, **1992**, 96, 9678-9684		133
153	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. *Journal of the American Society for Mass Spectrometry*, **2004**, 15, 703-14	3.5	132
152	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. *Rapid Communications in Mass Spectrometry*, **2008**, 22, 3275-85	2.2	124
151	Mass spectrometry imaging with high resolution in mass and space (HR(2) MSI) for reliable investigation of drug compound distributions on the cellular level. *Analytical and Bioanalytical Chemistry*, **2011**, 401, 65-73	4.4	123
150	Ultraviolet laser desorption/ionization mass spectrometry of proteins above 100,000 daltons by pulsed ion extraction time-of-flight analysis. *Analytical Chemistry*, **1990**, 62, 793-6	7.8	117

149	Proteomics study of silver nanoparticles toxicity on Oryza sativa L. *Ecotoxicology and Environmental Safety*, **2014**, 108, 335-9	7	115
148	Infrared laser desorption mass spectrometry of oligosaccharides: fragmentation mechanisms and isomer analysis. *Analytical Chemistry*, **1990**, 62, 1731-1737	7.8	108
147	Post-source decay and delayed extraction in matrix-assisted laser desorption/ionization-reflectron time-of-flight mass spectrometry. Are there trade-offs?. *Rapid Communications in Mass Spectrometry*, **1996**, 10, 1199-208	2.2	107
146	Simultaneous Detection of Positive and Negative Ions From Single Airborne Particles by Real-time Laser Mass Spectrometry. *Aerosol Science and Technology*, **1996**, 24, 233-242	3.4	102
145	AP-MALDI imaging of neuropeptides in mouse pituitary gland with 5 µm spatial resolution and high mass accuracy. *International Journal of Mass Spectrometry*, **2011**, 305, 228-237	1.9	92
144	Laser-Induced Mass Analysis of Single Particles in the Airborne State. *Analytical Chemistry*, **1994**, 66, 2071-2076	7.8	92
143	Molecular weight determination of underivatized oligodeoxyribonucleotides by positive-ion matrix-assisted ultraviolet laser-desorption mass spectrometry. *Rapid Communications in Mass Spectrometry*, **1990**, 4, 99-102	2.2	79
142	Photofading of ballpoint dyes studied on paper by LDI and MALDI MS. *Journal of the American Society for Mass Spectrometry*, **2006**, 17, 297-306	3.5	77
141	Dynamical parameters of ion ejection and ion formation in matrix- assisted laser desorption/ionization. *European Journal of Mass Spectrometry*, **1995**, 1, 81		77
140	Autofocusing MALDI mass spectrometry imaging of tissue sections and 3D chemical topography of nonflat surfaces. *Nature Methods*, **2017**, 14, 1156-1158	21.6	74
139	Laser spot size and laser power dependence of ion formation in high resolution MALDI imaging. *International Journal of Mass Spectrometry*, **2010**, 294, 7-15	1.9	73
138	In situ, real-time identification of biological tissues by ultraviolet and infrared laser desorption ionization mass spectrometry. *Analytical Chemistry*, **2011**, 83, 1632-40	7.8	72
137	Differentiation of blue ballpoint pen inks by laser desorption ionization mass spectrometry and high-performance thin-layer chromatography. *Journal of Forensic Sciences*, **2007**, 52, 216-20	1.8	72
136	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	3.6	71
135	Reactive Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging Using an Intrinsically Photoreactive Paternò-Büchi Matrix for Double-Bond Localization in Isomeric Phospholipids. *Journal of the American Chemical Society*, **2019**, 141, 11816-11820	16.4	70
134	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). *Electrophoresis*, **1998**, 19, 1015-23	3.6	70
133	A GC/MS study of the drying of ballpoint pen ink on paper. *Forensic Science International*, **2007**, 168, 119-27	2.6	69
132	High-resolution matrix-assisted laser desorption/ionization imaging of tryptic peptides from tissue. *Rapid Communications in Mass Spectrometry*, **2012**, 26, 1141-6	2.2	63

131	Peptide sequencing of charged derivatives by postsource decay MALDI mass spectrometry. *International Journal of Mass Spectrometry and Ion Processes*, **1997**, 169-170, 127-140		63
130	Instrumentation, data evaluation and quantification in on-line aerosol mass spectrometry. *Journal of Mass Spectrometry*, **2007**, 42, 843-60	2.2	61
129	High resolution mass spectrometry imaging of plant tissues: towards a plant metabolite atlas. *Analyst, The*, **2015**, 140, 7696-709	5	57
128	Direct sequencing of neuropeptides in biological tissue by MALDI-PSD mass spectrometry. *Analytical Chemistry*, **1999**, 71, 660-6	7.8	55
127	Natural products in Glycyrrhiza glabra (licorice) rhizome imaged at the cellular level by atmospheric pressure matrix-assisted laser desorption/ionization tandem mass spectrometry imaging. *Plant Journal*, **2014**, 80, 161-71	6.9	54
126	Protein identification by accurate mass matrix-assisted laser desorption/ionization imaging of tryptic peptides. *Rapid Communications in Mass Spectrometry*, **2011**, 25, 2475-83	2.2	54
125	On-target deuteration for peptide sequencing by laser mass spectrometry. *Organic Mass Spectrometry*, **1993**, 28, 1482-1490		54
124	The detection of large molecules in matrix-assisted UV-laser desorption. *Rapid Communications in Mass Spectrometry*, **1990**, 4, 301-305	2.2	53
123	Artifacts of MALDI sample preparation investigated by high-resolution scanning microprobe matrix-assisted laser desorption/ionization (SMALDI) imaging mass spectrometry. *International Journal of Mass Spectrometry*, **2007**, 266, 129-137	1.9	52
122	Aerosol single particle composition at the Jungfraujoch. *Journal of Aerosol Science*, **2005**, 36, 123-145	4.3	52
121	Spatial metabolomics of in situ host-microbe interactions at the micrometre scale. *Nature Microbiology*, **2020**, 5, 498-510	26.6	52
120	Angular and time resolved intensity distributions of laser-desorbed matrix ions. *Nuclear Instruments & Methods in Physics Research B*, **1993**, 82, 379-385	1.2	50
119	Mass spectrometry imaging of biomarker lipids for phagocytosis and signalling during focal cerebral ischaemia. *Scientific Reports*, **2016**, 6, 39571	4.9	49
118	Real-Time Food Authentication Using a Miniature Mass Spectrometer. *Analytical Chemistry*, **2017**, 89, 10717-10725	7.8	48
117	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. *Proteomics*, **2007**, 7, 474-81	4.8	47
116	Mapping protein-protein interactions between MutL and MutH by cross-linking. *Journal of Biological Chemistry*, **2004**, 279, 49338-45	5.4	47
115	imzML: Imaging Mass Spectrometry Markup Language: A common data format for mass spectrometry imaging. *Methods in Molecular Biology*, **2011**, 696, 205-24	1.4	47
114	Silicon-(thio)urea Lewis acid catalysis. *Journal of the American Chemical Society*, **2011**, 133, 7624-7	16.4	45

113	Structure analysis of branched oligosaccharides using post-source decay in matrix-assisted laser desorption ionization mass spectrometry. *Organic Mass Spectrometry*, **1994**, 29, 782-787		44
112	Direct readout of protein-protein interactions by mass spectrometry from protein-DNA microarrays. *Angewandte Chemie - International Edition*, **2005**, 44, 7635-9	16.4	43
111	Evaluation of the photodegradation of crystal violet upon light exposure by mass spectrometric and spectroscopic methods. *Journal of Forensic Sciences*, **2009**, 54, 339-45	1.8	42
110	Petroleum crude oil analysis using low-temperature plasma mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2013**, 27, 825-34	2.2	41
109	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, 2189-201	4.4	40
108	Proteomics study of silver nanoparticles toxicity on Bacillus thuringiensis. *Ecotoxicology and Environmental Safety*, **2014**, 100, 122-30	7	40
107	Identifying an interaction site between MutH and the C-terminal domain of MutL by crosslinking, affinity purification, chemical coding and mass spectrometry. *Nucleic Acids Research*, **2006**, 34, 3169-80	20.1	40
106	Isotopic Deconvolution of Matrix-Assisted Laser Desorption/Ionization Mass Spectra for Substance-Class Specific Analysis of Complex Samples. *European Journal of Mass Spectrometry*, **2001**, 7, 39-46	1.1	39
105	Sequencing of peptides phosphorylated on serines and threonines by post-source decay in matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. *Journal of Mass Spectrometry*, **1999**, 34, 1195-204	2.2	38
104	Mass spectrometry imaging of biological tissue: an approach for multicenter studies. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 2329-35	4.4	31
103	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. *Analytical Chemistry*, **2015**, 87, 11309-16	7.8	31
102	Analysis of cyathane-type diterpenoids from Cyathus striatus and Hericium erinaceus by high-resolution MALDI MS imaging. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 695-704	4.4	31
101	High-resolution atmospheric pressure infrared laser desorption/ionization mass spectrometry imaging of biological tissue. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 6959-68	4.4	30
100	The potential of artificial aging for modelling of natural aging processes of ballpoint ink. *Forensic Science International*, **2008**, 180, 23-31	2.6	28
99	On the formation of initial ion velocities in matrix-assisted laser desorption ionization: Virtual desorption time as an additional parameter describing ion ejection dynamics. *International Journal of Mass Spectrometry*, **2003**, 226, 71-83	1.9	28
98	Fatty Acid Structure and Degradation Analysis in Fingerprint Residues. *Journal of the American Society for Mass Spectrometry*, **2016**, 27, 1565-74	3.5	28
97	A public repository for mass spectrometry imaging data. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 2027-33	4.4	27
96	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. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 2107-2117	4.4	26

95	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	4.4	26
94	A comprehensive high-resolution mass spectrometry approach for characterization of metabolites by combination of ambient ionization, chromatography and imaging methods. *Rapid Communications in Mass Spectrometry*, **2014**, 28, 1779-91	2.2	25
93	High-resolution MALDI mass spectrometry imaging of gallotannins and monoterpene glucosides in the root of Paeonia lactiflora. *Scientific Reports*, **2016**, 6, 36074	4.9	24
92	Secondary-ion generation from large keV molecular primary ions incident on a stainless-steel dynode. *Rapid Communications in Mass Spectrometry*, **1992**, 6, 98-104	2.2	24
91	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. *Analytical Chemistry*, **2018**, 90, 8856-8864	7.8	24
90	A New Immunomodulatory Role for Peroxisomes in Macrophages Activated by the TLR4 Ligand Lipopolysaccharide. *Journal of Immunology*, **2017**, 198, 2414-2425	5.3	23
89	Ambient-air ozonolysis of triglycerides in aged fingerprint residues. *Analyst, The*, **2018**, 143, 1197-1209	5	23
88	METASPACE: A community-populated knowledge base of spatial metabolomes in health and disease		21
87	Approaching cellular resolution and reliable identification in mass spectrometry imaging of tryptic peptides. *Analytical and Bioanalytical Chemistry*, **2018**, 410, 5825-5837	4.4	20
86	Monitoring of N-nitrosodiethanolamine in cosmetic products by ion-pair complex liquid chromatography and identification with negative ion electrospray ionization mass spectrometry. *Journal of Chromatography A*, **2008**, 1185, 43-8	4.5	20
85	High-resolution AP-SMALDI mass spectrometry imaging of Drosophila melanogaster. *International Journal of Mass Spectrometry*, **2017**, 416, 1-19	1.9	19
84	Software tools of the Computis European project to process mass spectrometry images. *European Journal of Mass Spectrometry*, **2014**, 20, 351-60	1.1	19
83	Identification of collagen IV derived danger/alarm signals in insect immunity by nanoLC-FTICR MS. *Biological Chemistry*, **2009**, 390, 1303-11	4.5	19
82	Electrospray post-ionization mass spectrometry of electrosurgical aerosols. *Journal of the American Society for Mass Spectrometry*, **2011**, 22, 2082-9	3.5	18
81	Comparative parallel characterization of particle populations with two mass spectrometric systems LAMPAS 2 and SPASS. *International Journal of Mass Spectrometry*, **2006**, 258, 151-166	1.9	17
80	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. *Rapid Communications in Mass Spectrometry*, **2005**, 19, 133-46	2.2	17
79	A perspective view of top-down proteomics in snake venom research. *Rapid Communications in Mass Spectrometry*, **2019**, 33 Suppl 1, 20-27	2.2	15
78	C?H Bond Arylation of Diamondoids Catalyzed by Palladium(II) Acetate. *Advanced Synthesis and Catalysis*, **2016**, 358, 2163-2171	5.6	15

77	Quantitative lipidomic analysis of mouse lung during postnatal development by electrospray ionization tandem mass spectrometry. *PLoS ONE*, **2018**, 13, e0203464	3.7	15
76	Mass-based classification (MBC) of peptides: highly accurate precursor ion mass values can be used to directly recognize peptide phosphorylation. *Journal of the American Society for Mass Spectrometry*, **2008**, 19, 1808-12	3.5	14
75	Direct protein identification from nonspecific peptide pools by high-accuracy MS data filtering. *Angewandte Chemie - International Edition*, **2006**, 45, 3317-9	16.4	14
74	Direkter Nachweis von Protein-Protein-Wechselwirkungen durch Massenspektrometrie an Protein-DNA-Mikroarrays. *Angewandte Chemie*, **2005**, 117, 7808-7812	3.6	14
73	Lipid Topography in Schistosoma mansoni Cryosections, Revealed by Microembedding and High-Resolution Atmospheric-Pressure Matrix-Assisted Laser Desorption/Ionization (MALDI) Mass Spectrometry Imaging. *Analytical Chemistry*, **2019**, 91, 4520-4528	7.8	13
72	DESI MS based screening method for phthalates in consumer goods. *Analyst, The*, **2015**, 140, 3484-91	5	13
71	Characterization of novel insect associated peptidases for hydrolysis of food proteins. *European Food Research and Technology*, **2015**, 240, 431-439	3.4	13
70	Protein and Peptide Composition of Male Accessory Glands of Apis mellifera Drones Investigated by Mass Spectrometry. *PLoS ONE*, **2015**, 10, e0125068	3.7	13
69	Ambient ion/molecule reactions in low-temperature plasmas (LTP): reactive LTP mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2013**, 27, 795-804	2.2	13
68	High-resolution mass spectrometry driven discovery of peptidic danger signals in insect immunity. *PLoS ONE*, **2013**, 8, e80406	3.7	13
67	Characterization of a peptide family from the skin secretion of the Middle East tree frog Hyla savignyi by composition-based de novo sequencing. *Rapid Communications in Mass Spectrometry*, **2010**, 24, 2885-99	2.2	13
66	High-resolution atmospheric-pressure MALDI mass spectrometry imaging workflow for lipidomic analysis of late fetal mouse lungs. *Scientific Reports*, **2019**, 9, 3192	4.9	12
65	Massenspektrometrische Histologie: markierungsfreie Gewebecharakterisierung durch hochgenaue bildgebende Bioanalytik. *Angewandte Chemie*, **2010**, 122, 3923-3927	3.6	12
64	Combinatorial Synthesis of Peptoid Arrays via Laser-Based Stacking of Multiple Polymer Nanolayers. *Macromolecular Rapid Communications*, **2019**, 40, e1800533	4.8	12
63	Rapid fingerprinting of lignin by ambient ionization high resolution mass spectrometry and simplified data mining. *Analytica Chimica Acta*, **2017**, 994, 38-48	6.6	11
62	Effective solvation of alkaline earth ions by proline-rich proteolytic peptides of galectin-3 upon electrospray ionisation. *Rapid Communications in Mass Spectrometry*, **2006**, 20, 2404-10	2.2	11
61	Characterization of surgical aerosols by the compact single-particle mass spectrometer LAMPAS 3. *Analytical and Bioanalytical Chemistry*, **2011**, 401, 3165-72	4.4	9
60	Reactive low temperature plasma ionization mass spectrometry for the determination of organic UV filters in personal care products. *Talanta*, **2018**, 178, 780-787	6.2	8

59	Analysis of cyclotides in Viola ignobilis by Nano liquid chromatography fourier transform mass spectrometry. *Protein and Peptide Letters*, **2011**, 18, 747-52	1.9	8
58	New instrumental approaches to collision-induced dissociation using a time-of-flight instrument. *Methods in Molecular Biology*, **1996**, 61, 43-56	1.4	8
57	Crystalline degradation products of vancomycin as chiral stationary phase in microcolumn liquid chromatography. *Journal of Separation Science*, **2008**, 31, 2339-45	3.4	8
56	Epithelial propionyl- and butyrylcholine as novel regulators of colonic ion transport. *British Journal of Pharmacology*, **2016**, 173, 2766-79	8.6	8
55	Histology-guided high-resolution AP-SMALDI mass spectrometry imaging of wheat- interaction at the root-shoot junction. *Plant Methods*, **2018**, 14, 103	5.8	8
54	Spermidine and other functional phytochemicals in soybean seeds: Spatial distribution as visualized by mass spectrometry imaging. *Food Science and Nutrition*, **2020**, 8, 675-682	3.2	7
53	Atmospheric-Pressure MALDI Mass Spectrometry Imaging at 213 nm Laser Wavelength. *Journal of the American Society for Mass Spectrometry*, **2020**, 31, 326-335	3.5	7
52	Tissue- and sex-specific lipidomic analysis of Schistosoma mansoni using high-resolution atmospheric pressure scanning microprobe matrix-assisted laser desorption/ionization mass spectrometry imaging. *PLoS Neglected Tropical Diseases*, **2020**, 14, e0008145	4.8	6
51	Integrating Top-Down and Bottom-Up Mass Spectrometric Strategies for Proteomic Profiling of Iranian Saw-Scaled Viper, , Venom. *Journal of Proteome Research*, **2021**, 20, 895-908	5.6	5
50	Effects of wavelength, fluence, and dose on fragmentation pathways and photoproduct ion yield in 213 nm and 266 nm ultraviolet photodissociation experiments. *European Journal of Mass Spectrometry*, **2018**, 24, 54-65	1.1	5
49	ESI hydrogen/deuterium exchange can count chemical forms of heteroatom-bound hydrogen. *Angewandte Chemie - International Edition*, **2013**, 52, 8973-5	16.4	4
48	Isolation and sequence analysis of peptides from the skin secretion of the Middle East tree frog Hyla savignyi. *Analytical and Bioanalytical Chemistry*, **2010**, 398, 2853-65	4.4	4
47	Potentially Poisonous Plastic Particles: Microplastics as a Vector for Cyanobacterial Toxins Microcystin-LR and Microcystin-LF. *Environmental Science & Technology*, **2021**, 55, 15940-15949	10.3	4
46	Single Cell Analysis by High-Resolution Atmospheric-Pressure MALDI MS Imaging. *Methods in Molecular Biology*, **2020**, 2064, 103-111	1.4	4
45	The Basics of Matrix-Assisted Laser Desorption, Ionisation Time-of-Flight Mass Spectrometry and Post-Source Decay Analysis. *Principles and Practice*, **2001**, 33-53		4
44	Implementation of a High-Repetition-Rate Laser in an AP-SMALDI MSI System for Enhanced Measurement Performance. *Journal of the American Society for Mass Spectrometry*, **2021**, 32, 465-472	3.5	4
43	Chemical and topographical 3D surface profiling using atmospheric pressure LDI and MALDI MS imaging. *Protocol Exchange*,		4
42	Intracellular Parasites and , Unveiled in Single Host Cells Using AP-SMALDI MS Imaging. *Journal of the American Society for Mass Spectrometry*, **2020**, 31, 1815-1824	3.5	4

41	High-resolution AP-SMALDI MSI as a tool for drug imaging in Schistosoma mansoni. *Analytical and Bioanalytical Chemistry*, **2021**, 413, 2755-2766	4.4	4
40	Sphingolipid Control of Fibroblast Heterogeneity Revealed by Single-Cell Lipidomics		4
39	Visualizing and Profiling Lipids in the OVLT of Fat-1 and Wild Type Mouse Brains during LPS-Induced Systemic Inflammation Using AP-SMALDI MSI. *ACS Chemical Neuroscience*, **2019**, 10, 4394-4406	5.7	3
38	Skeletal muscle fiber analysis by atmospheric pressure scanning microprobe matrix-assisted laser desorption/ionization mass spectrometric imaging at high mass and high spatial resolution. *Proteomics*, **2016**, 16, 1822-4	4.8	3
37	Identification of T cell receptor signaling pathway proteins in a feline large granular lymphoma cell line by liquid chromatography tandem mass spectrometry. *Veterinary Immunology and Immunopathology*, **2014**, 161, 116-21	2	3
36	Monitoring of Paclitaxel, Taxine B and 10-Deacethylbaccatin III in Taxus baccata L. by Nano LC□TMS and NMR Spectroscopy. *Chromatographia*, **2010**, 72, 833-839	2.1	3
35	AP-MALDI MSI of lipids in mouse brain tissue sections. *Protocol Exchange*,		3
34	Robustness of the non-neuronal cholinergic system in rat large intestine against luminal challenges. *Pflugers Archiv European Journal of Physiology*, **2019**, 471, 605-618	4.6	3
33	3D-surface MALDI mass spectrometry imaging for visualising plant defensive cardiac glycosides in Asclepias curassavica. *Analytical and Bioanalytical Chemistry*, **2021**, 413, 2125-2134	4.4	3
32	Unveiling the spatial distribution of aflatoxin B1 and plant defense metabolites in maize using AP-SMALDI mass spectrometry imaging. *Plant Journal*, **2021**, 106, 185-199	6.9	3
31	Analysis of ketone-based neurosteroids by reactive low-temperature plasma mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2018**, 32, 1439-1450	2.2	3
30	Identification of intact peptides by top-down peptidomics reveals cleavage spots in thermolabile wine proteins. *Food Chemistry*, **2021**, 363, 130437	8.5	3
29	UV-Irradiation of the Antibiotic Sulfathiazole Surprisingly Leads to Former Antituberculotic Promizole. *Clean - Soil, Air, Water*, **2015**, 43, 490-495	1.6	2
28	Characterization of vertical aerosol flows by single particle mass spectrometry for micrometeorological analysis. *Atmospheric Research*, **2011**, 102, 49-56	5.4	2
27	Sequential lipidomic, metabolomic, and proteomic analyses of serum, liver, and heart tissue specimens from peroxisomal biogenesis factor 11□knockout mice.. *Analytical and Bioanalytical Chemistry*, **2022**, 414, 2235	4.4	2
26	LPS Primes Brain Responsiveness to High Mobility Group Box-1 Protein. *Pharmaceuticals*, **2021**, 14,	5.2	2
25	Development of a handheld liquid extraction pen for on-site mass spectrometric analysis of daily goods. *Analyst, The*, **2021**, 146, 3004-3015	5	2
24	On the Detectability of Low Velocity High Mass Ions in Matrix Assisted Laser Desorption TOF-MS. *NATO ASI Series Series B: Physics*, **1991**, 235-245		2

23	Sphingolipids control dermal fibroblast heterogeneity.. *Science*, **2022**, 376, eabh1623	33.3	2
22	Autarkic desorption electrospray ionization source for on-site analysis of consumer goods. *Analyst, The*, **2020**, 145, 5584-5593	5	1
21	Strategy for marker-based differentiation of pro- and anti-inflammatory macrophages using matrix-assisted laser desorption/ionization mass spectrometry imaging. *Analyst, The*, **2018**, 143, 4273-4282	5	1
20	MALDI-Mass Spectrometry Imaging **2013**, 133-167		1
19	Microprobing and Imaging MALDI for Biomarker Detection109-130		1
18	5--Alkylresorcinol Profiles in Different Cultivars of Einkorn, Emmer, Spelt, Common Wheat, and Tritordeum. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 14092-14102	5.7	1
17	Comparative lipid profiling of murine and human atherosclerotic plaques using high-resolution MALDI MSI. *Pflugers Archiv European Journal of Physiology*, **2021**, 1	4.6	1
16	Effects of Unripened Cheese Supplements on Lipid and Antioxidant Status in Hypercholesterolemic SD Rats. *Journal of the Korean Society of Food Science and Nutrition*, **2012**, 41, 65-72	1.5	1
15	Targeting Kinases in : Anthelminthic Effects and Tissue Distribution of Selected Kinase Inhibitors. *Frontiers in Veterinary Science*, **2020**, 7, 611270	3.1	1
14	Comparative proteomic approach to study the salinity effect on the growth of two contrasting quinoa genotypes. *Plant Physiology and Biochemistry*, **2021**, 163, 215-229	5.4	1
13	Mycotoxin Uptake in Wheat - Eavesdropping Presence for Priming Plant Defenses or a Trojan Horse to Weaken Them?. *Frontiers in Plant Science*, **2021**, 12, 711389	6.2	1
12	Spatial visualization of drug uptake and distribution in Fasciola hepatica using high-resolution AP-SMALDI mass spectrometry imaging.. *Parasitology Research*, **2022**, 121, 1145	2.4	0
11	Venom Gland Mass Spectrometry Imaging of Saw-Scaled Viper, , at High Lateral Resolution. *Journal of the American Society for Mass Spectrometry*, **2021**, 32, 1105-1115	3.5	0
10	Changes in the lipid profile of hamster liver after Schistosoma mansoni infection, characterized by mass spectrometry imaging and LC-MS/MS analysis.. *Analytical and Bioanalytical Chemistry*, **2022**, 1	4.4	0
9	Abz□len von chemisch unterschiedlichen labilen Wasserstoffatomen □er Wasserstoff-Deuterium-Austausch in einer ESI-Quelle. *Angewandte Chemie*, **2013**, 125, 9143-9145	3.6	
8	Direct Protein Identification from Nonspecific Peptide Pools by High-Accuracy MS Data Filtering. *Angewandte Chemie*, **2006**, 118, 3395-3397	3.6	
7	Protein Arrays as Tools for Detection of Protein-Protein Interactions by Mass Spectrometry **2006**, 725-727		
6	MALDI Postsource Decay Mass Analysis197-211		

List of Publications

5	Parasiten im Massenspektrometer. *Nachrichten Aus Der Chemie*, **2020**, 68, 68-71	0.1
4	Airborne Particle Analysis. *Science*, **1996**, 274, 1996-1996	33.3
3	Airborne Particle Analysis. *Science*, **1996**, 274, 1996-1996	33.3
2	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. *Aerosol Science and Technology*, **2021**, 55, 552-570	3.4
1	Bildgebende Massenspektrometrie **2022**, 423-431	