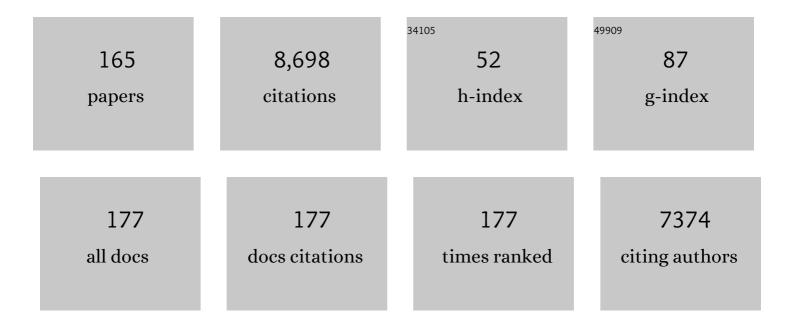
## **Bernhard Spengler**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Atmospheric pressure MALDI mass spectrometry imaging of tissues and cells at 1.4-μm lateral resolution. Nature Methods, 2017, 14, 90-96.	19.0	424
2	Post-source decay analysis in matrix-assisted laser desorption/ionization mass spectrometry of biomolecules. Journal of Mass Spectrometry, 1997, 32, 1019-1036.	1.6	318
3	Peptide sequencing by matrix-assisted laser-desorption mass spectrometry. Rapid Communications in Mass Spectrometry, 1992, 6, 105-108.	1.5	306
4	Mass spectrometry imaging with high resolution in mass and space. Histochemistry and Cell Biology, 2013, 139, 759-783.	1.7	294
5	imzML â€" A common data format for the flexible exchange and processing of mass spectrometry imaging data. Journal of Proteomics, 2012, 75, 5106-5110.	2.4	272
6	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, 735-748.	2.8	260
7	Mass Spectrometry Imaging of Biomolecular Information. Analytical Chemistry, 2015, 87, 64-82.	6.5	244
8	Metastable decay of peptides and proteins in matrix-assisted laser-desorption mass spectrometry. Rapid Communications in Mass Spectrometry, 1991, 5, 198-202.	1.5	223
9	Histology by Mass Spectrometry: Labelâ€Free Tissue Characterization Obtained from Highâ€Accuracy Bioanalytical Imaging. Angewandte Chemie - International Edition, 2010, 49, 3834-3838.	13.8	184
10	Single Cell Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging. Analytical Chemistry, 2012, 84, 6293-6297.	6.5	176
11	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, 1361-1366.	7.1	163
12	Matrix vapor deposition/recrystallization and dedicated spray preparation for highâ€resolution scanning microprobe matrixâ€assisted laser desorption/ionization imaging mass spectrometry (SMALDIâ€MS) of tissue and single cells. Rapid Communications in Mass Spectrometry, 2010, 24, 355-364.	1.5	153
13	Proteomics study of silver nanoparticles toxicity on Oryza sativa L Ecotoxicology and Environmental Safety, 2014, 108, 335-339.	6.0	151
14	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.	2.9	150
15	Spatial metabolomics of in situ host–microbe interactions at the micrometre scale. Nature Microbiology, 2020, 5, 498-510.	13.3	144
16	Ultraviolet laser desorption/ionization mass spectrometry of proteins above 100,000 daltons by pulsed ion extraction time-of-flight analysis. Analytical Chemistry, 1990, 62, 793-796.	6.5	137
17	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, 703-714.	2.8	136
18	A highâ€resolution scanning microprobe matrixâ€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, 3275-3285.	1.5	134

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19	Mass spectrometry imaging with high resolution in mass and space (HR2 MSI) for reliable investigation of drug compound distributions on the cellular level. Analytical and Bioanalytical Chemistry, 2011, 401, 65-73.	3.7	133
20	Post-source Decay and Delayed Extraction in Matrix-assisted Laser Desorption/Ionization-Reflectron Time-of-Flight Mass Spectrometry. Are There Trade-offs?. , 1996, 10, 1199-1208.		125
21	Infrared laser desorption mass spectrometry of oligosaccharides: fragmentation mechanisms and isomer analysis. Analytical Chemistry, 1990, 62, 1731-1737.	6.5	118
22	Autofocusing MALDI mass spectrometry imaging of tissue sections and 3D chemical topography of nonflat surfaces. Nature Methods, 2017, 14, 1156-1158.	19.0	114
23	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.	13.7	112
24	Laser-Induced Mass Analysis of Single Particles in the Airborne State. Analytical Chemistry, 1994, 66, 2071-2076.	6.5	107
25	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.	3.1	107
26	AP-MALDI imaging of neuropeptides in mouse pituitary gland with 5î¼m spatial resolution and high mass accuracy. International Journal of Mass Spectrometry, 2011, 305, 228-237.	1.5	102
27	Photofading of ballpoint dyes studied on paper by LDI and MALDI MS. Journal of the American Society for Mass Spectrometry, 2006, 17, 297-306.	2.8	93
28	High resolution mass spectrometry imaging of plant tissues: towards a plant metabolite atlas. Analyst, The, 2015, 140, 7696-7709.	3.5	91
29	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.	1.5	88
30	Uptake and bioavailability of anthocyanins and phenolic acids from grape/blueberry juice and smoothie <i>in vitro</i> and <i>in vivo</i> . British Journal of Nutrition, 2015, 113, 1044-1055.	2.3	88
31	Dynamical parameters of ion ejection and ion formation in matrix- assisted laser desorption/ionization. European Journal of Mass Spectrometry, 1995, 1, 81.	0.7	84
32	In Situ, Real-Time Identification of Biological Tissues by Ultraviolet and Infrared Laser Desorption Ionization Mass Spectrometry. Analytical Chemistry, 2011, 83, 1632-1640.	6.5	83
33	Natural products in <i>Glycyrrhiza glabra</i> (licorice) rhizome imaged at the cellular level by atmospheric pressure matrixâ€assisted laser desorption/ionization tandem mass spectrometry imaging. Plant Journal, 2014, 80, 161-171.	5.7	81
34	Differentiation of Blue Ballpoint Pen Inks by Laser Desorption Ionization Mass Spectrometry and High-Performance Thin-Layer Chromatography. Journal of Forensic Sciences, 2007, 52, 216-220.	1.6	80
35	Laser spot size and laser power dependence of ion formation in high resolution MALDI imaging. International Journal of Mass Spectrometry, 2010, 294, 7-15.	1.5	80
36	A GC/MS study of the drying of ballpoint pen ink on paper. Forensic Science International, 2007, 168, 119-127.	2.2	79

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37	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, 1015-1023.	2.4	74
38	Sphingolipids control dermal fibroblast heterogeneity. Science, 2022, 376, eabh1623.	12.6	73
39	Mass spectrometry imaging of biomarker lipids for phagocytosis and signalling during focal cerebral ischaemia. Scientific Reports, 2016, 6, 39571.	3.3	69
40	Instrumentation, data evaluation and quantification in on-line aerosol mass spectrometry. Journal of Mass Spectrometry, 2007, 42, 843-860.	1.6	68
41	Highâ€resolution matrixâ€assisted laser desorption/ionization imaging of tryptic peptides from tissue. Rapid Communications in Mass Spectrometry, 2012, 26, 1141-1146.	1.5	67
42	Peptide sequencing of charged derivatives by postsource decay MALDI mass spectrometry. International Journal of Mass Spectrometry and Ion Processes, 1997, 169-170, 127-140.	1.8	66
43	imzML: Imaging Mass Spectrometry Markup Language: A Common Data Format for Mass Spectrometry Imaging. Methods in Molecular Biology, 2011, 696, 205-224.	0.9	64
44	Siliconâ^'(Thio)urea Lewis Acid Catalysis. Journal of the American Chemical Society, 2011, 133, 7624-7627.	13.7	62
45	The detection of large molecules in matrix-assisted UV-laser desorption. Rapid Communications in Mass Spectrometry, 1990, 4, 301-305.	1.5	60
46	Protein identification by accurate mass matrixâ€assisted laser desorption/ionization imaging of tryptic peptides. Rapid Communications in Mass Spectrometry, 2011, 25, 2475-2483.	1.5	60
47	Real-Time Food Authentication Using a Miniature Mass Spectrometer. Analytical Chemistry, 2017, 89, 10717-10725.	6.5	60
48	On-target deuteration for peptide sequencing by laser mass spectrometry. Organic Mass Spectrometry, 1993, 28, 1482-1490.	1.3	59
49	Direct Sequencing of Neuropeptides in Biological Tissue by MALDIâ^'PSD Mass Spectrometry. Analytical Chemistry, 1999, 71, 660-666.	6.5	59
50	Aerosol single particle composition at the Jungfraujoch. Journal of Aerosol Science, 2005, 36, 123-145.	3.8	59
51	Evaluation of the Photodegradation of Crystal Violet upon Light Exposure by Mass Spectrometric and Spectroscopic Methods. Journal of Forensic Sciences, 2009, 54, 339-345.	1.6	58
52	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.	1.5	56
53	Angular and time resolved intensity distributions of laser-desorbed matrix ions. Nuclear Instruments & Methods in Physics Research B, 1993, 82, 379-385.	1.4	52
54	Mapping Protein-Protein Interactions between MutL and MutH by Cross-linking. Journal of Biological Chemistry, 2004, 279, 49338-49345.	3.4	49

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55	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, 474-481.	2.2	49
56	Structure analysis of branched oligosaccharides using post-source decay in matrix-assisted laser desorption ionization mass spectrometry. Organic Mass Spectrometry, 1994, 29, 782-787.	1.3	47
57	Petroleum crude oil analysis using lowâ€ŧemperature plasma mass spectrometry. Rapid Communications in Mass Spectrometry, 2013, 27, 825-834.	1.5	45
58	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, 2189-2201.	3.7	45
59	A New Immunomodulatory Role for Peroxisomes in Macrophages Activated by the TLR4 Ligand Lipopolysaccharide. Journal of Immunology, 2017, 198, 2414-2425.	0.8	45
60	Phospholipid Topography of Whole-Body Sections of the <i>Anopheles stephensi</i> Mosquito, Characterized by High-Resolution Atmospheric-Pressure Scanning Microprobe Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging. Analytical Chemistry, 2015, 87, 11309-11316.	6.5	44
61	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.	1.0	43
62	Direct Readout of Protein-Protein Interactions by Mass Spectrometry from Protein-DNA Microarrays. Angewandte Chemie - International Edition, 2005, 44, 7635-7639.	13.8	43
63	Proteomics study of silver nanoparticles toxicity on Bacillus thuringiensis. Ecotoxicology and Environmental Safety, 2014, 100, 122-130.	6.0	42
64	Sequencing of peptides phosphorylated on serines and threonines by post-source decay in matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. , 1999, 34, 1195-1204.		41
65	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, 3169-3180.	14.5	41
66	Potentially Poisonous Plastic Particles: Microplastics as a Vector for Cyanobacterial Toxins Microcystin-LR and Microcystin-LF. Environmental Science & Technology, 2021, 55, 15940-15949.	10.0	41
67	High-resolution MALDI mass spectrometry imaging of gallotannins and monoterpene glucosides in the root of Paeonia lactiflora. Scientific Reports, 2016, 6, 36074.	3.3	39
68	Mass spectrometry imaging of biological tissue: an approach for multicenter studies. Analytical and Bioanalytical Chemistry, 2015, 407, 2329-2335.	3.7	38
69	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, 7379-7389.	3.7	37
70	Fatty Acid Structure and Degradation Analysis in Fingerprint Residues. Journal of the American Society for Mass Spectrometry, 2016, 27, 1565-1574.	2.8	36
71	The potential of artificial aging for modelling of natural aging processes of ballpoint ink. Forensic Science International, 2008, 180, 23-31.	2.2	35
72	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.	6.5	35

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73	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.	3.7	34
74	High-resolution atmospheric pressure infrared laser desorption/ionization mass spectrometry imaging of biological tissue. Analytical and Bioanalytical Chemistry, 2013, 405, 6959-6968.	3.7	33
75	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.	3.7	33
76	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.	1.5	31
77	A public repository for mass spectrometry imaging data. Analytical and Bioanalytical Chemistry, 2015, 407, 2027-2033.	3.7	31
78	Ambient-air ozonolysis of triglycerides in aged fingerprint residues. Analyst, The, 2018, 143, 1197-1209.	3.5	31
79	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, 1779-1791.	1.5	27
80	Protein and Peptide Composition of Male Accessory Glands of Apis mellifera Drones Investigated by Mass Spectrometry. PLoS ONE, 2015, 10, e0125068.	2.5	27
81	Approaching cellular resolution and reliable identification in mass spectrometry imaging of tryptic peptides. Analytical and Bioanalytical Chemistry, 2018, 410, 5825-5837.	3.7	26
82	High-resolution AP-SMALDI mass spectrometry imaging of Drosophila melanogaster. International Journal of Mass Spectrometry, 2017, 416, 1-19.	1.5	25
83	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.	6.5	25
84	Secondary-ion generation from large keV molecular primary ions incident on a stainless-steel dynode. Rapid Communications in Mass Spectrometry, 1992, 6, 98-104.	1.5	24
85	Identification of collagen IV derived danger/alarm signals in insect immunity by nanoLC-FTICR MS. Biological Chemistry, 2009, 390, 1303-1311.	2.5	24
86	A perspective view of topâ€down proteomics in snake venom research. Rapid Communications in Mass Spectrometry, 2019, 33, 20-27.	1.5	24
87	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, 43-48.	3.7	23
88	Software Tools of the Computis European Project to Process Mass Spectrometry Images. European Journal of Mass Spectrometry, 2014, 20, 351-360.	1.0	23
89	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, 133-146.	1.5	22
90	CH Bond Arylation of Diamondoids Catalyzed by Palladium(II) Acetate. Advanced Synthesis and Catalysis, 2016, 358, 2163-2171.	4.3	21

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#	Article	IF	CITATIONS
91	Comparative parallel characterization of particle populations with two mass spectrometric systems LAMPAS 2 and SPASS. International Journal of Mass Spectrometry, 2006, 258, 151-166.	1.5	19
92	High-resolution atmospheric-pressure MALDI mass spectrometry imaging workflow for lipidomic analysis of late fetal mouse lungs. Scientific Reports, 2019, 9, 3192.	3.3	19
93	Electrospray Post-Ionization Mass Spectrometry of Electrosurgical Aerosols. Journal of the American Society for Mass Spectrometry, 2011, 22, 2082-9.	2.8	18
94	Quantitative lipidomic analysis of mouse lung during postnatal development by electrospray ionization tandem mass spectrometry. PLoS ONE, 2018, 13, e0203464.	2.5	18
95	Integrating Top-Down and Bottom-Up Mass Spectrometric Strategies for Proteomic Profiling of Iranian Saw-Scaled Viper, <i>Echis carinatus sochureki</i> , Venom. Journal of Proteome Research, 2021, 20, 895-908.	3.7	17
96	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, 1808-1812.	2.8	16
97	Rapid fingerprinting of lignin by ambient ionization high resolution mass spectrometry and simplified data mining. Analytica Chimica Acta, 2017, 994, 38-48.	5.4	16
98	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.	3.0	16
99	DESI MS based screening method for phthalates in consumer goods. Analyst, The, 2015, 140, 3484-3491.	3.5	15
100	High-resolution AP-SMALDI MSI as a tool for drug imaging in Schistosoma mansoni. Analytical and Bioanalytical Chemistry, 2021, 413, 2755-2766.	3.7	15
101	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.	2.8	15
102	5- <i>n</i> -Alkylresorcinol Profiles in Different Cultivars of Einkorn, Emmer, Spelt, Common Wheat, and Tritordeum. Journal of Agricultural and Food Chemistry, 2021, 69, 14092-14102.	5.2	15
103	Direct Protein Identification from Nonspecific Peptide Pools by High-Accuracy MS Data Filtering. Angewandte Chemie - International Edition, 2006, 45, 3317-3319.	13.8	14
104	Ambient ion/molecule reactions in lowâ€ŧemperature plasmas (LTP): reactive LTP mass spectrometry. Rapid Communications in Mass Spectrometry, 2013, 27, 795-804.	1.5	14
105	High-Resolution Mass Spectrometry Driven Discovery of Peptidic Danger Signals in Insect Immunity. PLoS ONE, 2013, 8, e80406.	2.5	14
106	Characterization of novel insect associated peptidases for hydrolysis of food proteins. European Food Research and Technology, 2015, 240, 431-439.	3.3	14
107	Histology-guided high-resolution AP-SMALDI mass spectrometry imaging of wheat-Fusarium graminearum interaction at the root–shoot junction. Plant Methods, 2018, 14, 103.	4.3	14
108	Combinatorial Synthesis of Peptoid Arrays via Laserâ€Based Stacking of Multiple Polymer Nanolayers. Macromolecular Rapid Communications, 2019, 40, 1800533.	3.9	14

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109	Spermidine and other functional phytochemicals in soybean seeds: Spatial distribution as visualized by mass spectrometry imaging. Food Science and Nutrition, 2020, 8, 675-682.	3.4	14
110	Unveiling the spatial distribution of aflatoxin B1 and plant defense metabolites in maize using AP‣MALDI mass spectrometry imaging. Plant Journal, 2021, 106, 185-199.	5.7	14
111	Effective solvation of alkaline earth ions by proline-rich proteolytic peptides of galectin-3 upon electrospray ionisation. Rapid Communications in Mass Spectrometry, 2006, 20, 2404-2410.	1.5	13
112	Characterization of a peptide family from the skin secretion of the Middle East Tree Frog <i>Hyla savignyi</i> by compositionâ€based <i>de novo</i> sequencing. Rapid Communications in Mass Spectrometry, 2010, 24, 2885-2899.	1.5	13
113	Sequential lipidomic, metabolomic, and proteomic analyses of serum, liver, and heart tissue specimens from peroxisomal biogenesis factor 111± knockout mice. Analytical and Bioanalytical Chemistry, 2022, 414, 2235-2250.	3.7	13
114	Drug Repurposing and De Novo Drug Discovery of Protein Kinase Inhibitors as New Drugs against Schistosomiasis. Molecules, 2022, 27, 1414.	3.8	13
115	Analysis of Cyclotides in Viola ignobilis by Nano Liquid Chromatography Fourier Transform Mass Spectrometry. Protein and Peptide Letters, 2011, 18, 747-752.	0.9	12
116	Epithelial propionyl―and butyrylcholine as novel regulators of colonic ion transport. British Journal of Pharmacology, 2016, 173, 2766-2779.	5.4	12
117	Intracellular Parasites Toxoplasma gondii and Besnoitia besnoiti, Unveiled in Single Host Cells Using AP-SMALDI MS Imaging. Journal of the American Society for Mass Spectrometry, 2020, 31, 1815-1824.	2.8	12
118	LPS Primes Brain Responsiveness to High Mobility Group Box-1 Protein. Pharmaceuticals, 2021, 14, 558.	3.8	12
119	Crystalline degradation products of vancomycin as chiral stationary phase in microcolumn liquid chromatography. Journal of Separation Science, 2008, 31, 2339-2345.	2.5	11
120	Atmospheric-Pressure MALDI Mass Spectrometry Imaging at 213 nm Laser Wavelength. Journal of the American Society for Mass Spectrometry, 2020, 31, 326-335.	2.8	11
121	3D-surface MALDI mass spectrometry imaging for visualising plant defensive cardiac glycosides in Asclepias curassavica. Analytical and Bioanalytical Chemistry, 2021, 413, 2125-2134.	3.7	11
122	Comparative proteomic approach to study the salinity effect on the growth of two contrasting quinoa genotypes. Plant Physiology and Biochemistry, 2021, 163, 215-229.	5.8	11
123	Characterization of surgical aerosols by the compact single-particle mass spectrometer LAMPAS 3. Analytical and Bioanalytical Chemistry, 2011, 401, 3165-3172.	3.7	10
124	Reactive low temperature plasma ionization mass spectrometry for the determination of organic UV filters in personal care products. Talanta, 2018, 178, 780-787.	5.5	10
125	New Instrumental Approaches to Collision-Induced Dissociation Using a Time-of-Flight Instrument. , 1996, 61, 43-56.		8
126	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.	3.5	8

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127	Targeting Kinases in Fasciola hepatica: Anthelminthic Effects and Tissue Distribution of Selected Kinase Inhibitors. Frontiers in Veterinary Science, 2020, 7, 611270.	2.2	8
128	Replacement of Pregastric Lipases in Cheese Production: Identification and Heterologous Expression of a Lipase from <i>Pleurotus citrinopileatus</i> . Journal of Agricultural and Food Chemistry, 2022, 70, 2998-3008.	5.2	8
129	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.	1.0	7
130	Robustness of the non-neuronal cholinergic system in rat large intestine against luminal challenges. Pflugers Archiv European Journal of Physiology, 2019, 471, 605-618.	2.8	7
131	ESI Hydrogen/Deuterium Exchange Can Count Chemical Forms of Heteroatomâ€Bound Hydrogen. Angewandte Chemie - International Edition, 2013, 52, 8973-8975.	13.8	6
132	Development of a handheld liquid extraction pen for on-site mass spectrometric analysis of daily goods. Analyst, The, 2021, 146, 3004-3015.	3.5	6
133	Venom Gland Mass Spectrometry Imaging of Saw-Scaled Viper, <i>Echis carinatus sochureki</i> , at High Lateral Resolution. Journal of the American Society for Mass Spectrometry, 2021, 32, 1105-1115.	2.8	6
134	Identification of intact peptides by top-down peptidomics reveals cleavage spots in thermolabile wine proteins. Food Chemistry, 2021, 363, 130437.	8.2	6
135	Comparative lipid profiling of murine and human atherosclerotic plaques using high-resolution MALDI MSI. Pflugers Archiv European Journal of Physiology, 2022, 474, 231-242.	2.8	6
136	Mass Spectrometry Imaging Disclosed Spatial Distribution of Defense-Related Metabolites in Triticum spp Metabolites, 2022, 12, 48.	2.9	6
137	Isolation and sequence analysis of peptides from the skin secretion of the Middle East tree frog Hyla savignyi. Analytical and Bioanalytical Chemistry, 2010, 398, 2853-2865.	3.7	5
138	Mycotoxin Uptake in Wheat — Eavesdropping Fusarium Presence for Priming Plant Defenses or a Trojan Horse to Weaken Them?. Frontiers in Plant Science, 2021, 12, 711389.	3.6	5
139	Matrix-Free High-Resolution Atmospheric-Pressure SALDI Mass Spectrometry Imaging of Biological Samples Using Nanostructured DIUTHAME Membranes. Metabolites, 2021, 11, 624.	2.9	5
140	Single Cell Analysis by High-Resolution Atmospheric-Pressure MALDI MS Imaging. Methods in Molecular Biology, 2020, 2064, 103-111.	0.9	5
141	Spatial visualization of drug uptake and distribution in Fasciola hepatica using high-resolution AP-SMALDI mass spectrometry imaging. Parasitology Research, 2022, 121, 1145.	1.6	5
142	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, 414, 3653-3665.	3.7	5
143	UVâ€ŀrradiation of the Antibiotic Sulfathiazole Surprisingly Leads to Former Antituberculotic Promizole. Clean - Soil, Air, Water, 2015, 43, 490-495.	1.1	4
144	Skeletal muscle fiber analysis by atmospheric pressure scanning microprobe matrixâ€assisted laser desorption/ionization mass spectrometric imaging at high mass and high spatial resolution. Proteomics, 2016, 16, 1822-1824.	2.2	4

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145	Analysis of ketone-based neurosteroids by reactive low temperature plasma mass spectrometry. Rapid Communications in Mass Spectrometry, 2018, 32, 1439-1450.	1.5	4
146	The Basics of Matrix-Assisted Laser Desorption, Ionisation Time-of-Flight Mass Spectrometry and Post-Source Decay Analysis. Principles and Practice, 2001, , 33-53.	0.3	4
147	AP-MALDI MSI of lipids in mouse brain tissue sections. Protocol Exchange, 0, , .	0.3	4
148	Chemical and topographical 3D surface profiling using atmospheric pressure LDI and MALDI MS imaging. Protocol Exchange, 0, , .	0.3	4
149	Mass-Spectrometry-Based Lipidome and Proteome Profiling of Hottentotta saulcyi (Scorpiones:) Tj ETQq1 1 0.78	4314 rgBT 3.4	-/Qverlock 1
150	Microprobing and Imaging MALDI for Biomarker Detection. , 0, , 109-130.		3
151	Monitoring of Paclitaxel, Taxine B and 10-Deacethylbaccatin III in Taxus baccata L. by Nano LC–FTMS and NMR Spectroscopy. Chromatographia, 2010, 72, 833-839.	1.3	3
152	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, 116-121.	1.2	3
153	Characterization of vertical aerosol flows by single particle mass spectrometry for micrometeorological analysis. Atmospheric Research, 2011, 102, 49-56.	4.1	2
154	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.	3.5	2
155	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.	0.2	2
156	<title>Subcellular storage compartments of bacteriopheophorbide sensitizers</title> . , 1994, 2078, 532.		1
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