Edwin De Pauw

List of Publications by Year
in descending order

297 papers	12,075 citations	20817 60 h-index	48315 88 g-index
301 all docs	301 docs citations	301 times ranked	13750 citing authors

#	Article	IF	Citations
1	Recommendations for reporting ion mobility Mass Spectrometry measurements. Mass Spectrometry Reviews, 2019, 38, 291-320.	5.4	315
2	Internal energy and fragmentation of ions produced in electrospray sources. Mass Spectrometry Reviews, 2005, 24, 566-587.	5.4	284
3	Lipopeptides as main ingredients for inhibition of fungal phytopathogens by <scp>B</scp>acillus subtilis/amyloliquefaciens. Microbial Biotechnology, 2015, 8, 281-295.	4.2	251
4	G-Quadruplex DNA Assemblies: Loop Length, Cation Identity, and Multimer Formation. Journal of the American Chemical Society, 2008, 130, 10208-10216.	13.7	246
5	Interaction between antitumor drugs and a double-stranded oligonucleotide studied by electrospray ionization mass spectrometry. , 1999, 34, 1328-1337.		168
6	Triplex and quadruplex DNA structures studied by electrospray mass spectrometry. Rapid Communications in Mass Spectrometry, 2002, 16, 1729-1736.	1.5	154
7	Dioxin/polychlorinated biphenyl body burden, diabetes and endometriosis: findings in a population-based study in Belgium. Biomarkers, 2003, 8, 529-534.	1.9	152
8	Stabilization and Structure of Telomeric and c-myc Region Intramolecular G-Quadruplexes:Â The Role of Central Cations and Small Planar Ligands. Journal of the American Chemical Society, 2007, 129, 895-904.	13.7	143
9	Electrospray mass spectrometry to study drug-nucleic acids interactions. Biochimie, 2008, 90, 1074-1087.	2.6	142
10	Blocking Lipid Synthesis Overcomes Tumor Regrowth and Metastasis after Antiangiogenic Therapy Withdrawal. Cell Metabolism, 2014, 20, 280-294.	16.2	141
11	Influence of response factors on determining equilibrium association constants of non-covalent complexes by electrospray ionization mass spectrometry. Journal of Mass Spectrometry, 2003, 38, 491-501.	1.6	138
12	Inactivation of the Î²(1,2)-xylosyltransferase and the Î±(1,3)-fucosyltransferase genes in Nicotiana tabacum BY-2 Cells by a Multiplex CRISPR/Cas9 Strategy Results in Glycoproteins without Plant-Specific Glycans. Frontiers in Plant Science, 2017, 8, 403.	3.6	134
13	Interactions of cryptolepine and neocryptolepine with unusual DNA structures. Biochimie, 2003, 85, 535-547.	2.6	133
14	Rational Selection of the Optimum MALDI Matrix for Top-Down Proteomics by In-Source Decay. Analytical Chemistry, 2007, 79, 8678-8685.	6.5	133
15	Versican overexpression in human breast cancer lesions: Known and new isoforms for stromal tumor targeting. International Journal of Cancer, 2010, 126, 640-650.	5.1	125
16	Electrospray Mass Spectrometry of Telomeric RNA (TERRA) Reveals the Formation of Stable Multimeric G-Quadruplex Structures. Journal of the American Chemical Society, 2010, 132, 9328-9334.	13.7	124
17	Selective Interaction of Ethidium Derivatives with Quadruplexes:â€‰ An Equilibrium Dialysis and Electrospray Ionization Mass Spectrometry Analysis. Biochemistry, 2003, 42, 10361-10371.	2.5	122
18	Monitoring Antibiotic Use and Residue in Freshwater Aquaculture for Domestic Use in Vietnam. EcoHealth, 2015, 12, 480-489.	2.0	121

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19	Liquid matrices for secondary ion mass spectrometry. Mass Spectrometry Reviews, 1986, 5, 191-212.	5.4	119
20	Rapid identification of environmental bacterial strains by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. Rapid Communications in Mass Spectrometry, 2004, 18, 2013-2019.	1.5	112
21	Fast clean-up for polychlorinated dibenzo-p-dioxins, dibenzofurans and coplanar polychlorinated biphenyls analysis of high-fat-content biological samples. Journal of Chromatography A, 2001, 925, 207-221.	3.7	110
22	Effective Temperature of Ions in Traveling Wave Ion Mobility Spectrometry. Analytical Chemistry, 2011, 83, 5775-5782.	6.5	110
23	Quantitative methods for food allergens: a review. Analytical and Bioanalytical Chemistry, 2009, 395, 57-67.	3.7	106
24	Electron Photodetachment Dissociation of DNA Polyanions in a Quadrupole Ion Trap Mass Spectrometer. Analytical Chemistry, 2006, 78, 6564-6572.	6.5	105
25	Identification of Novel Accessible Proteins Bearing Diagnostic and Therapeutic Potential in Human Pancreatic Ductal Adenocarcinoma. Journal of Proteome Research, 2011, 10, 4302-4313.	3.7	103
26	Methylglyoxal, a glycolysis side-product, induces Hsp90 glycation and YAP-mediated tumor growth and metastasis. ELife, 2016, 5, .	6.0	100
27	On the specificity of cyclodextrin complexes detected by electrospray mass spectrometry. Journal of the American Society for Mass Spectrometry, 2002, 13, 946-953.	2.8	99
28	Discovery of a natural thiamine adenine nucleotide. Nature Chemical Biology, 2007, 3, 211-212.	8.0	99
29	MALDI-In Source Decay Applied to Mass Spectrometry Imaging: A New Tool for Protein Identification. Analytical Chemistry, 2010, 82, 4036-4045.	6.5	99
30	Identification of new bioactive peptides from Kefir milk through proteopeptidomics: Bioprospection of antihypertensive molecules. Food Chemistry, 2019, 282, 109-119.	8.2	99
31	Base-Dependent Electron Photodetachment from Negatively Charged DNA Strands upon 260-nm Laser Irradiation. Journal of the American Chemical Society, 2007, 129, 4706-4713.	13.7	97
32	Positive and negative ion mode ESI-MS and MS/MS for studying drugâ€“DNA complexes. International Journal of Mass Spectrometry, 2006, 253, 156-171.	1.5	94
33	Comparison between solution-phase stability and gas-phase kinetic stability of oligodeoxynucleotide duplexes. Journal of Mass Spectrometry, 2001, 36, 397-402.	1.6	92
34	Spatiotemporal Monitoring of the Antibiome Secreted by Bacillus Biofilms on Plant Roots Using MALDI Mass Spectrometry Imaging. Analytical Chemistry, 2014, 86, 4431-4438.	6.5	91
35	Thermal energy distribution observed in electrospray ionization. Journal of Mass Spectrometry, 1999, 34, 1373-1379.	1.6	90
36	Tetramolecular G-quadruplex formation pathways studied by electrospray mass spectrometry. Nucleic Acids Research, 2010, 38, 5217-5225.	14.5	90

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37	Coating of gold nanoparticles by thermosensitive poly(N-isopropylacrylamide) end-capped by biotin. Polymer, 2008, 49, 1145-1153.	3.8	88
38	Comprehensive two-dimensional gas chromatography with isotope dilution time-of-flight mass spectrometry for the measurement of dioxins and polychlorinated biphenyls in foodstuffs. Journal of Chromatography A, 2005, 1086, 45-60.	3.7	82
39	New Method for Characterizing Highly Disulfide-Bridged Peptides in Complex Mixtures: Application to Toxin Identification from Crude Venoms. Journal of Proteome Research, 2007, 6, 3216-3223.	3.7	82
40	Development of an absolute quantification method targeting growth hormone biomarkers using liquid chromatography coupled to isotope dilution mass spectrometry. Journal of Chromatography A, 2007, 1153, 300-306.	3.7	82
41	Multiresidue determination of (fluoro)quinolone antibiotics in swine kidney using liquid chromatographyâ€“tandem mass spectrometry. Journal of Chromatography A, 2002, 952, 121-129.	3.7	80
42	Automated sample preparation-fractionation for the measurement of dioxins and related compounds in biological matrices: a review. Talanta, 2004, 63, 1101-1113.	5.5	80
43	G-quadruplexes in telomeric repeats are conserved in a solvent-free environment. International Journal of Mass Spectrometry, 2006, 253, 225-237.	1.5	80
44	Determination of the substrate repertoire of ADAMTS2, 3, and 14 significantly broadens their functions and identifies extracellular matrix organization and TGFâ€²² signaling as primary targets. FASEB Journal, 2016, 30, 1741-1756.	0.5	79
45	A Simple Method to Determine Electrospray Response Factors of Noncovalent Complexes. Analytical Chemistry, 2009, 81, 6708-6715.	6.5	75
46	Removal of dioxins and PCB from fish oil by activated carbon and its influence on the nutritional quality of the oil. JAOCS, Journal of the American Oil Chemists' Society, 2005, 82, 593-597.	1.9	73
47	A laser microdissection-based workflow for FFPE tissue microproteomics: Important considerations for small sample processing. Methods, 2016, 104, 154-162.	3.8	72
48	New strategy for comprehensive analysis of polybrominated diphenyl ethers, polychlorinated dibenzo-p-dioxins, polychlorinated dibenzofurans and polychlorinated biphenyls by gas chromatography coupled with mass spectrometry. Journal of Chromatography A, 2003, 998, 169-181.	3.7	71
49	From Dormant to Germinating Spores ofStreptomycescoelicolorA3(2):Â New Perspectives from thecrpNull Mutant. Journal of Proteome Research, 2005, 4, 1699-1708.	3.7	71
50	MALDI mass spectrometry imaging: A cuttingâ€edge tool for fundamental and clinical histopathology. Proteomics - Clinical Applications, 2016, 10, 701-719.	1.6	70
51	Myoferlin Is a Key Regulator of EGFR Activity in Breast Cancer. Cancer Research, 2013, 73, 5438-5448.	0.9	69
52	Effects of a sublethal pesticide exposure on locomotor behavior: A video-tracking analysis in larval amphibians. Chemosphere, 2013, 90, 945-951.	8.2	69
53	Mercury immune toxicity in harbour seals: links to in vitro toxicity. Environmental Health, 2008, 7, 52.	4.0	68
54	Proteomics in Myzus persicae: Effect of aphid host plant switch. Insect Biochemistry and Molecular Biology, 2006, 36, 219-227.	2.7	67

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55	Comparison of the collision-induced dissociation of duplex DNA at different collision regimes: Evidence for a multistep dissociation mechanism. Journal of the American Society for Mass Spectrometry, 2002, 13, 91-98.	2.8	66
56	Increased risk of non-Hodgkin lymphoma and serum organochlorine concentrations among neighbors of a municipal solid waste incinerator. Environment International, 2011, 37, 449-453.	10.0	65
57	Levels of dechloranes and polybrominated diphenyl ethers (PBDEs) in human serum from France. Environment International, 2014, 65, 33-40.	10.0	64
58	A Phenotypic and Genotypic Analysis of the Antimicrobial Potential of Cultivable Streptomyces Isolated from Cave Moonmilk Deposits. Frontiers in Microbiology, 2016, 7, 1455.	3.5	64
59	De Novo Synthesis of Polychlorinated Dibenzo-p-dioxins and Dibenzofurans on Fly Ash from a Sintering Process. Environmental Science & Technology, 2001, 35, 1616-1623.	10.0	63
60	Infrared Signature of DNA G-Quadruplexes in the Gas Phase. Journal of the American Chemical Society, 2008, 130, 1810-1811.	13.7	63
61	Tridentate Nâ€Donor Palladium(II) Complexes as Efficient Coordinating Quadruplex DNA Binders. Chemistry - A European Journal, 2011, 17, 13274-13283.	3.3	63
62	Fragmentation and Isomerization Due to Field Heating in Traveling Wave Ion Mobility Spectrometry. Journal of the American Society for Mass Spectrometry, 2014, 25, 1384-1393.	2.8	63
63	Proteomic Investigation of Aphid Honeydew Reveals an Unexpected Diversity of Proteins. PLoS ONE, 2013, 8, e74656.	2.5	62
64	Ascididemin and meridine stabilise G-quadruplexes and inhibit telomerase in vitro. Biochimica Et Biophysica Acta - General Subjects, 2005, 1724, 375-384.	2.4	61
65	Putative DNA G-quadruplex formation within the promoters of Plasmodium falciparum var genes. BMC Genomics, 2009, 10, 362.	2.8	61
66	Influence of the capillary temperature and the source pressure on the internal energy distribution of electrosprayed ions. International Journal of Mass Spectrometry, 2004, 231, 189-195.	1.5	60
67	Fibulin 3 peptides Fib3â€1 and Fib3â€2 are potential biomarkers of osteoarthritis. Arthritis and Rheumatism, 2012, 64, 2260-2267.	6.7	58
68	PTV-LV-GC/MS/MS as screening and complementary method to HRMS for the monitoring of dioxin levels in food and feed. Talanta, 2004, 63, 1135-1146.	5.5	57
69	Peptidomic comparison and characterization of the major components of the venom of the giant ant Dinoponera quadriceps collected in four different areas of Brazil. Journal of Proteomics, 2013, 94, 413-422.	2.4	57
70	Uptake of polychlorodibenzo-p-dioxins, polychlorodibenzofurans and coplanar polychlorobiphenyls in chickens. Environment International, 2005, 31, 585-591.	10.0	56
71	Myoferlin is a novel exosomal protein and functional regulator of cancer-derived exosomes. Oncotarget, 2016, 7, 83669-83683.	1.8	56
72	Plant polysaccharides initiate underground crosstalk with bacilli by inducing synthesis of the immunogenic lipopeptide surfactin. Environmental Microbiology Reports, 2015, 7, 570-582.	2.4	54

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73	Travelling-wave ion mobility time-of-flight mass spectrometry as an alternative strategy for screening of multi-class pesticides in fruits and vegetables. Journal of Chromatography A, 2015, 1405, 85-93.	3.7	53
74	Recent advances in mass spectrometric measurement of dioxins. Journal of Chromatography A, 2005, 1067, 265-275.	3.7	51
75	Raman spectroscopy and laser desorption mass spectrometry for minimal destructive forensic analysis of black and color inkjet printed documents. Forensic Science International, 2012, 219, 64-75.	2.2	51
76	MALDI-FTICR MS Imaging as a Powerful Tool to Identify Paenibacillus Antibiotics Involved in the Inhibition of Plant Pathogens. Journal of the American Society for Mass Spectrometry, 2013, 24, 1202-1213.	2.8	50
77	Proteome analysis of the bovine milk fat globule: Enhancement of membrane purification. International Dairy Journal, 2008, 18, 885-893.	3.0	49
78	Using sets of behavioral biomarkers to assess short-term effects of pesticide: a study case with endosulfan on frog tadpoles. Ecotoxicology, 2012, 21, 1240-1250.	2.4	48
79	Tissue Proteomics for the Next Decade? Towards a Molecular Dimension in Histology. OMICS A Journal of Integrative Biology, 2014, 18, 539-552.	2.0	48
80	Proteopeptidomic, Functional and Immunoreactivity Characterization of Bothrops moojeni Snake Venom: Influence of Snake Gender on Venom Composition. Toxins, 2018, 10, 177.	3.4	48
81	Advantages and drawbacks of nanospray for studying noncovalent protein-DNA complexes by mass spectrometry. Rapid Communications in Mass Spectrometry, 2002, 16, 1723-1728.	1.5	47
82	Polymer Topology Revealed by Ion Mobility Coupled with Mass Spectrometry. Analytical Chemistry, 2014, 86, 9693-9700.	6.5	47
83	Surfaceâ€assisted laser desorption/ionization mass spectrometry imaging: A review. Mass Spectrometry Reviews, 2022, 41, 373-420.	5.4	47
84	Formation of PCDD/Fs in the Sintering Process:Â Influence of the Raw Materials. Environmental Science & Technology, 2004, 38, 4222-4226.	10.0	46
85	Impact of Iron and Steel Industry and Waste Incinerators on Human Exposure to Dioxins, PCBs, and Heavy Metals: Results of a Cross-Sectional Study in Belgium. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2007, 70, 222-226.	2.3	46
86	Targeting G-Quadruplex Structure in the Human c-Kit Promoter with Short PNA Sequences. Bioconjugate Chemistry, 2011, 22, 654-663.	3.6	45
87	Study on the susceptibility of the bovine milk fat globule membrane proteins to enzymatic hydrolysis and organization of some of the proteins. International Dairy Journal, 2011, 21, 312-318.	3.0	45
88	Furan formation in starch-based model systems containing carbohydrates in combination with proteins, ascorbic acid and lipids. Food Chemistry, 2012, 133, 816-821.	8.2	45
89	OLFM4, KNG1 and Sec24C identified by proteomics and immunohistochemistry as potential markers of early colorectal cancer stages. Clinical Proteomics, 2017, 14, 9.	2.1	45
90	Fast automated extraction and clean-up of biological fluids for polychlorinated dibenzo-p-dioxins, dibenzofurans and coplanar polychlorinated biphenyls analysis. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2002, 776, 199-212.	2.3	44

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91	Thiaminylated adenine nucleotides. Chemical synthesis, structural characterization and natural occurrence. FEBS Journal, 2009, 276, 3256-3268.	4.7	44
92	Structure-based design of selective high-affinity telomeric quadruplex-binding ligands. Chemical Communications, 2010, 46, 9116.	4.1	44
93	Environmental and Human Impact of an Old-Timer Incinerator in Terms of Dioxin and PCB Level:Â A Case Study. Environmental Science & Technology, 2005, 39, 4721-4728.	10.0	43
94	Organized proteomic heterogeneity in colorectal cancer liver metastases and implications for therapies. Hepatology, 2014, 59, 924-934.	7.3	43
95	High-throughput expression of animal venom toxins in Escherichia coli to generate a large library of oxidized disulphide-reticulated peptides for drug discovery. Microbial Cell Factories, 2017, 16, 6.	4.0	43
96	Molecular Characterization of a Specific Thiamine Triphosphatase Widely Expressed in Mammalian Tissues. Journal of Biological Chemistry, 2002, 277, 13771-13777.	3.4	42
97	d(CGGTGGT) forms an octameric parallel G-quadruplex via stacking of unusual G(:C):G(:C):G(:C):G(:C) octads. Nucleic Acids Research, 2011, 39, 7848-7857.	14.5	42
98	A spiked tissue-based approach for quantification of phosphatidylcholines in brain section by MALDI mass spectrometry imaging. Analytical and Bioanalytical Chemistry, 2015, 407, 2095-2106.	3.7	42
99	Effective Temperature and Structural Rearrangement in Trapped Ion Mobility Spectrometry. Analytical Chemistry, 2020, 92, 4573-4582.	6.5	42
100	DR-CALUXS screening of food samples: evaluation of the quantitative approach to measure dioxin, furans and dioxin-like PCBs. Talanta, 2004, 63, 1193-1202.	5.5	41
101	Validation and Interpretation of CALUX as a Tool for the Estimation of Dioxin-Like Activity in Marine Biological Matrixes. Environmental Science & Technology, 2005, 39, 1741-1748.	10.0	41
102	UV Spectroscopy of DNA Duplex and Quadruplex Structures in the Gas Phase. Journal of Physical Chemistry A, 2012, 116, 5383-5391.	2.5	41
103	Furan formation from vitamin C in a starch-based model system: Influence of the reaction conditions. Food Chemistry, 2010, 121, 1163-1170.	8.2	40
104	Protein N-glycosylation and N-glycan trimming are required for postembryonic development of the pest beetle Tribolium castaneum. Scientific Reports, 2016, 6, 35151.	3.3	39
105	Importance of Fat Oxidation in Starch-Based Emulsions in the Generation of the Process Contaminant Furan. Journal of Agricultural and Food Chemistry, 2010, 58, 9579-9586.	5.2	38
106	Selected Protein Monitoring in Histological Sections by Targeted MALDI-FTICR In-Source Decay Imaging. Analytical Chemistry, 2013, 85, 2117-2126.	6.5	38
107	Comprehensive Ion Mobility Calibration: Poly(ethylene oxide) Polymer Calibrants and General Strategies. Analytical Chemistry, 2017, 89, 12076-12086.	6.5	38
108	Amines Compounds as Inhibitors of PCDD/Fs De Novo Formation on Sintering Process Fly Ash. Environmental Science & Technology, 2002, 36, 2760-2765.	10.0	37

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109	Furan Formation from Lipids in Starch-Based Model Systems, As Influenced by Interactions with Antioxidants and Proteins. Journal of Agricultural and Food Chemistry, 2011, 59, 2368-2376.	5.2	37
110	Absorption, disposition and excretion of polybrominated diphenyl ethers (PBDEs) in chicken. Chemosphere, 2007, 66, 320-325.	8.2	36
111	Ligand binding mode to duplex and triplex dna assessed by combining electrospray tandem mass spectrometry and molecular modeling. Journal of the American Society for Mass Spectrometry, 2007, 18, 1052-1062.	2.8	36
112	Identification of a novel snake peptide toxin displaying high affinity and antagonist behaviour for the Î±₂â€adrenoceptors. British Journal of Pharmacology, 2010, 161, 1361-1374.	5.4	36
113	Novel Comprehensive Approach for Accessible Biomarker Identification and Absolute Quantification from Precious Human Tissues. Journal of Proteome Research, 2011, 10, 3160-3182.	3.7	36
114	The angiogenesis suppressor gene AKAP12 is under the epigenetic control of HDAC7 in endothelial cells. Angiogenesis, 2012, 15, 543-554.	7.2	36
115	2-Aminobenzamide and 2-Aminobenzoic Acid as New MALDI Matrices Inducing Radical Mediated In-Source Decay of Peptides and Proteins. Journal of the American Society for Mass Spectrometry, 2012, 23, 469-474.	2.8	36
116	Ultraviolet Laser Induced Hydrogen Transfer Reaction: Study of the First Step of MALDI In-Source Decay Mass Spectrometry. Journal of Physical Chemistry B, 2013, 117, 2321-2327.	2.6	36
117	Steatosis-Induced Proteomic Changes in Liver Mitochondria Evidenced by Two-Dimensional Differential In-Gel Electrophoresis. Journal of Proteome Research, 2005, 4, 2024-2031.	3.7	35
118	Bcs<scp>T</scp>x3 is a founder of a novel sea anemone toxin family of potassium channel blocker. FEBS Journal, 2013, 280, 4839-4852.	4.7	35
119	Precise co-registration of mass spectrometry imaging, histology, and laser microdissection-based omics. Analytical and Bioanalytical Chemistry, 2019, 411, 5647-5653.	3.7	35
120	Electron photodetachment dissociation of DNA anions with covalently or noncovalently bound chromophores. Journal of the American Society for Mass Spectrometry, 2007, 18, 1990-2000.	2.8	34
121	Hybridization of short complementary PNAs to Gâ€quadruplex forming oligonucleotides: An electrospray mass spectrometry study. Biopolymers, 2009, 91, 244-255.	2.4	34
122	Zwitterionic i-motif structures are preserved in DNA negatively charged ions produced by electrospray mass spectrometry. Physical Chemistry Chemical Physics, 2010, 12, 13448.	2.8	34
123	Dioxin Accumulation in Residents Around Incinerators. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2003, 66, 1287-1293.	2.3	33
124	Sparc-Like Protein 1 Is a New Marker of Human Glioma Progression. Journal of Proteome Research, 2012, 11, 5011-5021.	3.7	33
125	Identification and characterization of a new xylanase from Gram-positive bacteria isolated from termite gut (Reticulitermes santonensis). Protein Expression and Purification, 2012, 83, 117-127.	1.3	33
126	Discrimination of Isobaric Leu/Ile Residues by MALDI In-Source Decay Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2013, 24, 297-300.	2.8	33

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127	Green mamba peptide targets type-2 vasopressin receptor against polycystic kidney disease. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7154-7159.	7.1	33
128	MALDI Imagingâ€Guided Microproteomic Analyses of Heterogeneous Breast Tumorsâ€"A Pilot Study. Proteomics - Clinical Applications, 2018, 12, 1700062.	1.6	33
129	Towards the use of ion mobility mass spectrometry derived collision cross section as a screening approach for unambiguous identification of targeted pesticides in food. Rapid Communications in Mass Spectrometry, 2019, 33, 34-48.	1.5	33
130	Proteomic signatures reveal a dualistic and clinically relevant classification of anal canal carcinoma. Journal of Pathology, 2017, 241, 522-533.	4.5	32
131	Fast gas-phase hydrogen/deuterium exchange observed for a DNA G-quadruplex. Rapid Communications in Mass Spectrometry, 2005, 19, 201-208.	1.5	31
132	Cell Membrane Proteomic Analysis Identifies Proteins Differentially Expressed in Osteotropic Human Breast Cancer Cells. Neoplasia, 2008, 10, 1014-IN11.	5.3	31
133	Rapid Visualization of Chemically Related Compounds Using Kendrick Mass Defect As a Filter in Mass Spectrometry Imaging. Analytical Chemistry, 2019, 91, 13112-13118.	6.5	31
134	Detection of Oligonucleotide Gas-Phase Conformers: H/D Exchange and Ion Mobility as Complementary Techniques. Journal of the American Society for Mass Spectrometry, 2008, 19, 938-946.	2.8	30
135	Der p 1 is the primary activator of Der p 3, Der p 6 and Der p 9 the proteolytic allergens produced by the house dust mite Dermatophagoides pteronyssinus. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 1117-1124.	2.4	30
136	Accurate Drift Time Determination by Traveling Wave Ion Mobility Spectrometry: The Concept of the Diffusion Calibration. Analytical Chemistry, 2016, 88, 11639-11646.	6.5	30
137	Identification of specific reachable molecular targets in human breast cancer using a versatileex vivo proteomic method. Proteomics, 2007, 7, 1188-1196.	2.2	29
138	Characterization of a new Î²-glucosidase/Î²-xylosidase from the gut microbiota of the termite (Reticulitermes santonensis). FEMS Microbiology Letters, 2011, 314, 147-157.	1.8	29
139	Determination of Chloramphenicol in Honey, Shrimp, and Poultry Meat with Liquid Chromatographyâ€"Mass Spectrometry: Validation of the Method According to Commission Decision 2002/657/EC. Food Analytical Methods, 2013, 6, 1458-1465.	2.6	29
140	Multi-Enzymatic Limited Digestion: The Next-Generation Sequencing for Proteomics?. Journal of Proteome Research, 2019, 18, 2501-2513.	3.7	29
141	Calibration of Ion Effective Temperatures Achieved by Resonant Activation in a Quadrupole Ion Trap. Analytical Chemistry, 2003, 75, 5152-5159.	6.5	28
142	Suitability of tandem-in-time mass spectrometry for polybrominated diphenylether measurement in fish and shellfish samples: Comparison with high resolution mass spectrometry. Journal of Chromatography A, 2006, 1115, 125-132.	3.7	28
143	Positively Cooperative Binding of Zinc Ions to Bacillus cereus 569/H/9 Î²-Lactamase II Suggests that the Binuclear Enzyme Is the Only Relevant Form for Catalysis. Journal of Molecular Biology, 2009, 392, 1278-1291.	4.2	28
144	Elimination of enrofloxacin in striped catfish (Pangasianodon hypophthalmus) following on-farm treatment. Aquaculture, 2015, 438, 1-5.	3.5	28

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145	Lipopeptide Interplay Mediates Molecular Interactions between Soil Bacilli and Pseudomonads. Microbiology Spectrum, 2021, 9, e0203821.	3.0	27
146	Toxicokinetic study of dioxins and furans in laying chickens. Environment International, 2006, 32, 466-469.	10.0	26
147	High-throughput biomonitoring of dioxins and polychlorinated biphenyls at the sub-picogram level in human serum. Journal of Chromatography A, 2006, 1130, 97-107.	3.7	26
148	First evidence of the possible implication of the 11-deoxycorticosterone (DOC) in immune activity of Eurasian perch (Perca fluviatilis, L.): Comparison with cortisol. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2013, 165, 149-158.	1.8	26
149	In-Source Decay during Matrix-Assisted Laser Desorption/Ionization Combined with the Collisional Process in an FTICR Mass Spectrometer. Analytical Chemistry, 2013, 85, 7809-7817.	6.5	26
150	Accessibilome of Human Glioblastoma: Collagen-VI-alpha-1 Is a New Target and a Marker of Poor Outcome. Journal of Proteome Research, 2014, 13, 5660-5669.	3.7	26
151	Supercritical fluid extraction of polychlorinated dibenzo-p-dioxins from fly ash: the importance of fly ash origin and composition on extraction efficiency. Journal of Chromatography A, 1998, 819, 187-195.	3.7	25
152	Ku proteins interact with activator protein-2 transcription factors and contribute to ERBB2overexpression in breast cancer cell lines. Breast Cancer Research, 2009, 11, R83.	5.0	25
153	Towards Lipidomics of Low-Abundant Species for Exploring Tumor Heterogeneity Guided by High-Resolution Mass Spectrometry Imaging. International Journal of Molecular Sciences, 2013, 14, 24560-24580.	4.1	25
154	MS Imagingâ€Guided Microproteomics for Spatial Omics on a Single Instrument. Proteomics, 2020, 20, e1900369.	2.2	25
155	Mitoproteome Plasticity of Rat Brown Adipocytes in Response to Cold Acclimation. Journal of Proteome Research, 2007, 6, 25-33.	3.7	24
156	New Approach for Pseudo-MS³ Analysis of Peptides and Proteins via MALDI In-Source Decay Using Radical Recombination with 1,5-Diaminonaphthalene. Analytical Chemistry, 2014, 86, 2451-2457.	6.5	24
157	Isolation and characterization of Ts19 Fragment II, a new long-chain potassium channel toxin from Tityus serrulatus venom. Peptides, 2016, 80, 9-17.	2.4	24
158	Where Ion Mobility and Molecular Dynamics Meet To Unravel the (Un)Folding Mechanisms of an Oligorotaxane Molecular Switch. ACS Nano, 2017, 11, 10253-10263.	14.6	24
159	In-Depth Venome of the Brazilian Rattlesnake Crotalus durissus terrificus: An Integrative Approach Combining Its Venom Gland Transcriptome and Venom Proteome. Journal of Proteome Research, 2018, 17, 3941-3958.	3.7	24
160	Intertwined metal homeostasis, oxidative and biotic stress responses in the Arabidopsis frd3 mutant. Plant Journal, 2020, 102, 34-52.	5.7	24
161	Differential proteomic analysis of a human breast tumor and its matched bone metastasis identifies cell membrane and extracellular proteins associated with bone metastasis. Journal of Proteome Research, 2012, 11, 2247-2260.	3.7	23
162	Ion Mobility Mass Spectrometry as a Potential Tool To Assign Disulfide Bonds Arrangements in Peptides with Multiple Disulfide Bridges. Analytical Chemistry, 2013, 85, 4405-4413.	6.5	23

#	Article	IF	Citations
163	Predicting Ion Mobility-Mass Spectrometry trends of polymers using the concept of apparent densities. Methods, 2018, 144, 125-133.	3.8	23
164	Comparison of Different Ion Mobility Setups Using Poly (Ethylene Oxide) PEO Polymers: Drift Tube, TIMS, and T-Wave. Journal of the American Society for Mass Spectrometry, 2018, 29, 114-120.	2.8	23
165	Dissociation Pathways of Benzylpyridinium â€œThermometerâ€•Ions Depend on the Activation Regime: An IRMPD Spectroscopy Study. Journal of Physical Chemistry Letters, 2014, 5, 3787-3791.	4.6	22
166	Multiple Gas-Phase Conformations of a Synthetic Linear Poly(acrylamide) Polymer Observed Using Ion Mobility-Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2017, 28, 2492-2499.	2.8	22
167	Uncoupling protein 1 affects the yeast mitoproteome and oxygen free radical production. Free Radical Biology and Medicine, 2006, 40, 303-315.	2.9	21
168	Chemical Composition of the Essential Oil ofNigella sativaSeeds Extracted by Microwave Steam Distillation. Journal of Essential Oil-bearing Plants: JEOP, 2013, 16, 781-794.	1.9	21
169	Development of an analytical method to detect metabolites of nitrofurans. Aquaculture, 2013, 376-379, 54-58.	3.5	21
170	Peptide backbone fragmentation initiated by sideâ€chain loss at cysteine residue in matrixâ€assisted laser desorption/ionization inâ€source decay mass spectrometry. Journal of Mass Spectrometry, 2013, 48, 352-360.	1.6	21
171	Combined Use of Ion Mobility and Collision-Induced Dissociation To Investigate the Opening of Disulfide Bridges by Electron-Transfer Dissociation in Peptides Bearing Two Disulfide Bonds. Analytical Chemistry, 2015, 87, 5240-5246.	6.5	21
172	Proteomic response of Macrobrachium rosenbergii hepatopancreas exposed to chlordecone: Identification of endocrine disruption biomarkers?. Ecotoxicology and Environmental Safety, 2017, 141, 306-314.	6.0	21
173	RGD Surface Functionalization of the Hydrophilic Acrylic Intraocular Lens Material to Control Posterior Capsular Opacification. PLoS ONE, 2014, 9, e114973.	2.5	21
174	Identification of Trinucleotide Repeat Ligands with a FRET Melting Assay. ChemBioChem, 2008, 9, 1229-1234.	2.6	20
175	Electron detachment dissociation (EDD) pathways in oligonucleotides. International Journal of Mass Spectrometry, 2009, 283, 206-213.	1.5	20
176	TxXIIIA, an atypical homodimeric conotoxin found in the Conus textile venom. Journal of Proteomics, 2009, 72, 219-226.	2.4	20
177	Dynamics of the Dictyostelium discoideum mitochondrial proteome during vegetative growth, starvation and early stages of development. Proteomics, 2010, 10, 6-22.	2.2	20
178	An Analytical Pipeline for MALDI In-Source Decay Mass Spectrometry Imaging. Analytical Chemistry, 2011, 83, 6090-6097.	6.5	20
179	Typing of colon and lung adenocarcinoma by high throughput imaging mass spectrometry. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2017, 1865, 858-864.	2.3	20
180	Naphthopyranone glycosides from Paepalanthus bromelioides. Phytochemistry, 1998, 49, 207-210.	2.9	19

#	Article	IF	Citations
181	Optimization of Matrix Conditions for the Control of MALDI In-Source Decay of Permethylated Glycans. Analytical Chemistry, 2010, 82, 9248-9253.	6.5	19
182	Ion Mobility Spectrometry Reveals Duplex DNA Dissociation Intermediates. Journal of the American Society for Mass Spectrometry, 2013, 24, 1777-1786.	2.8	19
183	Comparison of two FFPE preparation methods using label-free shotgun proteomics: Application to tissues of diverticulitis patients. Journal of Proteomics, 2015, 112, 250-261.	2.4	19
184	Effects of low dose endosulfan exposure on brain neurotransmitter levels in the African clawed frog Xenopus laevis. Chemosphere, 2015, 120, 357-364.	8.2	19
185	Proteomics Highlights Common and Distinct Pathophysiological Processes Associated with Ileal and Colonic Ulcers in Crohnâ€™s Disease. Journal of Crohn's and Colitis, 2020, 14, 205-215.	1.3	19
186	Imaging lipids in biological samples with surface-assisted laser desorption/ionization mass spectrometry: A concise review of the last decade. Progress in Lipid Research, 2021, 83, 101114.	11.6	19
187	Advances in immunoproteomics for serological characterization of microbial antigens. Journal of Microbiological Methods, 2006, 67, 593-596.	1.6	18
188	Innovative Proteomics for the Discovery of Systemically Accessible Cancer Biomarkers Suitable for Imaging and Targeted Therapies. American Journal of Pathology, 2011, 178, 12-18.	3.8	18
189	New glucosidase activities identified by functional screening of a genomic DNA library from the gut microbiota of the termite Reticulitermes santonensis. Microbiological Research, 2011, 166, 629-642.	5.3	18
190	Identification and Relative-Quantification of Glycans by Matrix-Assisted Laser Desorption/Ionization In-Source Decay with Hydrogen Abstraction. Analytical Chemistry, 2012, 84, 7463-7468.	6.5	18
191	Laser Microdissection-Based Microproteomics of Formalin-Fixed and Paraffin-Embedded (FFPE) Tissues. Methods in Molecular Biology, 2018, 1723, 19-31.	0.9	18
192	Secretion and maturation of conotoxins in the venom ducts of Conus textile. Toxicon, 2012, 60, 1370-1379.	1.6	17
193	Biointerface multiparametric study of intraocular lens acrylic materials. Journal of Cataract and Refractive Surgery, 2014, 40, 1536-1544.	1.5	17
194	Influences of Proline and Cysteine Residues on Fragment Yield in Matrix-Assisted Laser Desorption/Ionization In-Source Decay Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2014, 25, 1040-1048.	2.8	17
195	Expression of a new serine protease from Crotalus durissus collilineatus venom in Pichia pastoris and functional comparison with the native enzyme. Applied Microbiology and Biotechnology, 2015, 99, 9971-9986.	3.6	17
196	Supramolecular influence on cisâ€“trans isomerization probed by ion mobility spectrometry. Physical Chemistry Chemical Physics, 2016, 18, 32331-32336.	2.8	17
197	Identification of proteins from wild cardoon flowers (Cynara cardunculus L.) by a proteomic approach. Journal of Chemical Biology, 2017, 10, 25-33.	2.2	17
198	New Insights on Moojase, a Thrombin-Like Serine Protease from Bothrops moojeni Snake Venom. Toxins, 2018, 10, 500.	3.4	17

#	Article	IF	Citations
199	Pores Formation on Cell Membranes by Hederacolchiside A1 Leads to a Rapid Release of Proteins for Cytosolic Subproteome Analysis. Journal of Proteome Research, 2008, 7, 1683-1692.	3.7	16
200	A Specific Inorganic Triphosphatase from Nitrosomonas europaea. Journal of Biological Chemistry, 2011, 286, 34023-34035.	3.4	16
201	Effect-based proteomic detection of growth promoter abuse. Analytical and Bioanalytical Chemistry, 2013, 405, 1171-1179.	3.7	16
202	Structural determinants of specificity and catalytic mechanism in mammalian 25-kDa thiamine triphosphatase. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4513-4523.	2.4	16
203	Isolation and cultivation of xylanolytic and cellulolytic Sarocladium kiliense and Trichoderma virens from the gut of the termite Reticulitermes santonensis. Environmental Science and Pollution Research, 2015, 22, 4369-4382.	5.3	16
204	Energy-resolved collision-induced dissociation of non-covalent ions: charge- and guest-dependence of decomplexation reaction efficiencies. Physical Chemistry Chemical Physics, 2016, 18, 12557-12568.	2.8	16
205	Ion Mobility-Mass Spectrometry as a Tool for the Structural Characterization of Peptides Bearing Intramolecular Disulfide Bond(s). Journal of the American Society for Mass Spectrometry, 2016, 27, 1637-1646.	2.8	16
206	Structural analysis of rutheniumâ€“arene complexes using ion mobility mass spectrometry, collision-induced dissociation, and DFT. Dalton Transactions, 2016, 45, 6361-6370.	3.3	16
207	SaccharomycescerevisiaeMitoproteome Plasticity in Response to Recombinant Alternative Ubiquinol Oxidase. Journal of Proteome Research, 2006, 5, 339-348.	3.7	15
208	An Unusual Family of Glycosylated Peptides Isolated from Dendroaspis angusticeps Venom and Characterized by Combination of Collision Induced and Electron Transfer Dissociation. Journal of the American Society for Mass Spectrometry, 2011, 22, 1891-7.	2.8	15
209	Influence of Equilibration Time in Solution on the Inclusion/Exclusion Topology Ratio of Hostâ€“Guest Complexes Probed by Ion Mobility and Collisionâ€induced Dissociation. Chemistry - A European Journal, 2016, 22, 4528-4534.	3.3	15
210	Dual-polarity SALDI FT-ICR MS imaging and Kendrick mass defect data filtering for lipid analysis. Analytical and Bioanalytical Chemistry, 2021, 413, 2821-2830.	3.7	15
211	Conformationally driven gas-phase H/D exchange of dinucleotide negative ions. Journal of the American Society for Mass Spectrometry, 2007, 18, 1827-1834.	2.8	14
212	Characterisation of proteins from date palm sap (Phoenix dactylifera L.) by a proteomic approach. Food Chemistry, 2010, 123, 765-770.	8.2	14
213	Rapid Collapse into a Molten Globule Is Followed by Simple Two-State Kinetics in the Folding of Lysozyme from Bacteriophage Î». Biochemistry, 2010, 49, 8646-8657.	2.5	14
214	Levels and trends of PCDD/Fs and PCBs in camel milk (Camelus bactrianus and Camelus dromedarius) from Kazakhstan. Chemosphere, 2011, 85, 351-360.	8.2	14
215	Isolation of amylolytic, xylanolytic, and cellulolytic microorganisms extracted from the gut of the termite Reticulitermes santonensis by means of a micro-aerobic atmosphere. World Journal of Microbiology and Biotechnology, 2014, 30, 1655-1660.	3.6	14
216	Diversity in sequences, post-translational modifications and expected pharmacological activities of toxins from four Conus species revealed by the combination of cutting-edge proteomics, transcriptomics and bioinformatics. Toxicon, 2017, 130, 116-125.	1.6	14

#	Article	IF	Citations
217	Heterologous expression of rTsHyal-1: the first recombinant hyaluronidase of scorpion venom produced in Pichia pastoris system. Applied Microbiology and Biotechnology, 2018, 102, 3145-3158.	3.6	14
218	Prevention of dioxins de novo formation by ethanolamines. Environmental Chemistry Letters, 2003, 1, 51-56.	16.2	13
219	Performances and limitations of the HRMS method for dioxins, furans and dioxin-like PCBs analysis in animal feedingstuffs. Analytica Chimica Acta, 2004, 519, 231-242.	5.4	13
220	Cation Involvement in Telomestatin Binding to G-Quadruplex DNA. Journal of Nucleic Acids, 2010, 2010, 1-7.	1.2	13
221	Isolation and Cultivation of a Xylanolytic Bacillus subtilis Extracted from the Gut of the Termite Reticulitermes santonensis. Applied Biochemistry and Biotechnology, 2013, 171, 225-245.	2.9	13
222	MALDI-TOF MS Analysis of Cellodextrins and Xylo-oligosaccharides Produced by Hindgut Homogenates of Reticulitermes santonensis. Molecules, 2014, 19, 4578-4594.	3.8	13
223	An Improved Molecular Histology Method for Ion Suppression Monitoring and Quantification of Phosphatidyl Cholines During MALDI MSI Lipidomics Analyses. OMICS A Journal of Integrative Biology, 2016, 20, 110-121.	2.0	13
224	N-Glycosylation of an IgG antibody secreted by Nicotiana tabacum BY-2 cells can be modulated through co-expression of human Î²-1,4-galactosyltransferase. Transgenic Research, 2017, 26, 375-384.	2.4	13
225	Peptidomic investigation of Neoponera villosa venom by high-resolution mass spectrometry: seasonal and nesting habitat variations. Journal of Venomous Animals and Toxins Including Tropical Diseases, 2018, 24, 6.	1.4	13
226	Microproteomic Profiling of Highâ€Grade Squamous Intraepithelial Lesion of the Cervix: Insight into Biological Mechanisms of Dysplasia and New Potential Diagnostic Markers. Proteomics - Clinical Applications, 2019, 13, 1800052.	1.6	13
227	A Mechanistic Study of Protonated Aniline to Protonated Phenol Substitution Considering Tautomerization by Ion Mobility Mass Spectrometry and Tandem Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2019, 30, 2238-2249.	2.8	13
228	A Venomics Approach Coupled to High-Throughput Toxin Production Strategies Identifies the First Venom-Derived Melanocortin Receptor Agonists. Journal of Medicinal Chemistry, 2020, 63, 8250-8264.	6.4	13
229	Adaptive Pixel Mass Recalibration for Mass Spectrometry Imaging Based on Locally Endogenous Biological Signals. Analytical Chemistry, 2021, 93, 4066-4074.	6.5	13
230	An Immuno-PF2D-MS/MS Proteomic Approach for Bacterial Antigenic Characterization:Â ToBacillusand Beyond. Journal of Proteome Research, 2007, 6, 2168-2175.	3.7	12
231	Use of 1,5â€diaminonaphthalene to combine matrixâ€assisted laser desorption/ionization inâ€source decay fragmentation with hydrogen/deuterium exchange. Rapid Communications in Mass Spectrometry, 2013, 27, 1837-1846.	1.5	12
232	The Use of Ion Mobility Mass Spectrometry for Isomer Composition Determination Extracted from Se-Rich Yeast. Analytical Chemistry, 2014, 86, 11246-11254.	6.5	12
233	Multilabel Per-Pixel Quantitation in Mass Spectrometry Imaging. Analytical Chemistry, 2021, 93, 1393-1400.	6.5	12
234	[8] Matrix selection for liquid secondary ion and fast atom bombardment mass spectrometry. Methods in Enzymology, 1990, 193, 201-214.	1.0	11

#	Article	IF	Citations
235	Multiple analyses of microbial communities applied to the gut of the wood-feeding termite Reticulitermes flavipes fed on artificial diets. Symbiosis, 2015, 65, 143-155.	2.3	11
236	Force measurements reveal how small binders perturb the dissociation mechanisms of DNA duplex sequences. Nanoscale, 2016, 8, 11718-11726.	5.6	11
237	Identification and quantification of concentration-dependent biomarkers in MCF-7/BOS cells exposed to 17Î²-estradiol by 2-D DIGE and label-free proteomics. Journal of Proteomics, 2012, 75, 4555-4569.	2.4	10
238	Preliminary assessment of the risk linked to furan ingestion by babies consuming only ready-to-eat food. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2013, 30, 654-659.	2.3	10
239	Symbiont Diversity inReticulitermes santonensis(Isoptera: Rhinotermitidae): Investigation Strategy Through Proteomics. Environmental Entomology, 2013, 42, 882-887.	1.4	10
240	Combination of Capillary Zone Electrophoresis-Mass Spectrometry, Ion Mobility-Mass Spectrometry, and Theoretical Calculations for Cysteine Connectivity Identification in Peptides Bearing Two Intramolecular Disulfide Bonds. Analytical Chemistry, 2020, 92, 2425-2434.	6.5	10
241	Response to Comment on Effective Temperature and Structural Rearrangement in Trapped Ion Mobility Spectrometry. Analytical Chemistry, 2020, 92, 16334-16337.	6.5	10
242	Human Liver-Derived Extracellular Matrix for the Culture of Distinct Human Primary Liver Cells. Cells, 2020, 9, 1357.	4.1	10
243	FT-ICR Mass Spectrometry Imaging at Extreme Mass Resolving Power Using a Dynamically Harmonized ICR Cell with 1Ï‰ or 2Ï‰ Detection. Analytical Chemistry, 2022, 94, 9316-9326.	6.5	10
244	Performances and limitations of the HRMS method for dioxins, furans and dioxin-like PCBs analysis in animal feedingstuffs. Analytica Chimica Acta, 2004, 519, 243-253.	5.4	9
245	Mass spectrometric characterization of 3â€²-imino[60]fulleryl-3â€²-deoxythymidine by collision-induced dissociation. Journal of Mass Spectrometry, 2007, 42, 304-311.	1.6	9
246	Mass spectrometric study of the ionized C₆₀: (Î³â€€cyclodextrin)₂ inclusion complex by collision induced dissociation. Journal of Mass Spectrometry, 2008, 43, 242-250.	1.6	9
247	Estimation of peptide Nâ€“C_{Î±} bond cleavage efficiency during MALDIâ€ISD using a cyclic peptide. Journal of Mass Spectrometry, 2016, 51, 323-327.	1.6	9
248	Difference of Electron Capture and Transfer Dissociation Mass Spectrometry on Ni²⁺-, Cu²⁺-, and Zn²⁺-Polyhistidine Complexes in the Absence of Remote Protons. Journal of the American Society for Mass Spectrometry, 2016, 27, 1165-1175.	2.8	9
249	Discovery and characterization of EII B, a new Î±-conotoxin from Conus ermineus venom by nAChRs affinity capture monitored by MALDI-TOF/TOF mass spectrometry. Toxicon, 2017, 130, 1-10.	1.6	9
250	Effectiveness and Limitations of Computational Chemistry and Mass Spectrometry in the Rational Design of Targetâ€specific Shift Reagents for Ion Mobility Spectrometry. ChemPhysChem, 2018, 19, 2921-2930.	2.1	9
251	Exploring the N-Glycosylation Profile of Glycoprotein B from Human Cytomegalovirus Expressed in CHO and Nicotiana tabacum BY-2 Cells. International Journal of Molecular Sciences, 2019, 20, 3741.	4.1	9
252	On the identification of the sulfur oxidation state in inorganic sodium sulfoxy salts by laser microprobe mass analysis and secondary ion mass spectrometry. Analytical Chemistry, 1985, 57, 361-362.	6.5	8

#	Article	IF	Citations
253	Chapter 14 Persistent Organochlorine Pollutants, Dioxins and Polychlorinated Biphenyls. Comprehensive Analytical Chemistry, 2008, 51, 457-506.	1.3	8
254	Risk assessment for furan contamination through the food chain in Belgian children. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2012, 29, 1219-1229.	2.3	8
255	On the origin of the abundance distribution of apomyoglobin multiply charged ions in electrospray mass spectrometry. , 1998, 12, 239-245.		7
256	Advances in quality control for dioxins monitoring and evaluation of measurement uncertainty from quality control data. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 2380-2387.	2.3	7
257	Selective Reduction of C=C Double Bonds in Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry of Microcystins. European Journal of Mass Spectrometry, 2010, 16, 91-99.	1.0	7
258	Matrixâ€assisted laser desorption/ionization mass spectrometry and Raman spectroscopy: An interesting complementary approach for lipid detection in biological tissues. European Journal of Lipid Science and Technology, 2014, 116, 1080-1086.	1.5	7
259	Fundamental Studies on Poly(2-oxazoline) Side Chain Isomers Using Tandem Mass Spectrometry and Ion Mobility-Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2019, 30, 1220-1228.	2.8	7
260	Mass shift in mass spectrometry imaging: comprehensive analysis and practical corrective workflow. Analytical and Bioanalytical Chemistry, 2021, 413, 2831-2844.	3.7	7
261	A strategy to identify specific biomarkers related to the effects of a PCDD/F mixture on the immune system of marine mammals. Talanta, 2004, 63, 1225-1230.	5.5	6
262	Identification of stromal proteins overexpressed in nodular sclerosis Hodgkin lymphoma. Proteome Science, 2011, 9, 63.	1.7	6
263	Purification and Characterisation of a 31-kDa Chitinase from the Myzus Persicae Aphid: A Target for Hemiptera Biocontrol. Applied Biochemistry and Biotechnology, 2012, 166, 1291-1300.	2.9	6
264	Energetics and structural characterization of isomers using ion mobility and gasâ€phase H/D exchange: Learning from lasso peptides. Proteomics, 2015, 15, 2823-2834.	2.2	6
265	Can IM-MS Collision Cross Sections of Biomolecules Be Rationalized Using Collision Cross-Section Trends of Polydisperse Synthetic Homopolymers?. Journal of the American Society for Mass Spectrometry, 2020, 31, 990-995.	2.8	6
266	Cooperative 2:1 Binding of a Bisphenothiazine to Duplex DNA. ChemBioChem, 2008, 9, 849-852.	2.6	5
267	Empirical relationship between precision and ultra-trace concentrations of PCDD/Fs and dioxin-like PCBs in biological matrices. Chemosphere, 2008, 71, 379-387.	8.2	5
268	A new method for the determination of the relative affinity of a ligand against various DNA sequences by electrospray ionization mass spectrometry. Application to a polyamide minor groove binder. Journal of Mass Spectrometry, 2009, 44, 1171-1181.	1.6	5
269	Identification of fragmentation channels of dinucleotides using deuterium labeling. Journal of the American Society for Mass Spectrometry, 2010, 21, 23-33.	2.8	5
270	MALDI Imaging Combined with Laser Microdissection-Based Microproteomics for Protein Identification: Application to Intratumor Heterogeneity Studies. Methods in Molecular Biology, 2017, 1788, 297-312.	0.9	5

#	Article	IF	Citations
271	Two-Parameter Power Formalism for Structural Screening of Ion Mobility Trends: Applied Study on Artificial Molecular Switches. Journal of Physical Chemistry A, 2019, 123, 8043-8052.	2.5	5
272	Use of Capillary Zone Electrophoresis Coupled to Electrospray Mass Spectrometry for the Detection and Absolute Quantitation of Peptidoglycan-Derived Peptides in Bacterial Cytoplasmic Extracts. Analytical Chemistry, 2021, 93, 2342-2350.	6.5	5
273	Rapid visualization of lipopeptides and potential bioactive groups of compounds by combining ion mobility and MALDI imaging mass spectrometry. Drug Discovery Today: Technologies, 2021, 39, 81-88.	4.0	5
274	Title is missing!. International Journal of Peptide Research and Therapeutics, 2001, 8, 21-27.	0.1	4
275	Formation of PCDD/Fs in the sintering process: role of the gridâ€"Cr2O3 catalyst in the de novo synthesis. Chemosphere, 2005, 59, 1399-1406.	8.2	4
276	Gas phase fullerene anions hydrogenation by methanol followed by IRMPA dehydrogenation. Journal of the American Society for Mass Spectrometry, 2010, 21, 117-126.	2.8	4
277	Coordination of alkali metal ions to model branched hexasaccharides dictates fragment yield in MALDI inâ€source decay with hydrogen abstraction using 5â€nitrosalicylic acid as the matrix. Journal of Mass Spectrometry, 2014, 49, 1059-1062.	1.6	4
278	Mass-spectrometry-based method for screening of new peptide ligands for G-protein-coupled receptors. Analytical and Bioanalytical Chemistry, 2015, 407, 5299-5307.	3.7	4
279	Sodium Coordination and Protonation of Poly(ethoxy phosphate) Chains in the Gas Phase Probed by Ion Mobility-Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2020, 31, 633-641.	2.8	4
280	The Proline-Rich Motif of the proDer p 3 Allergen Propeptide Is Crucial for Protease-Protease Interaction. PLoS ONE, 2013, 8, e68014.	2.5	4
281	On the formation of clusters in secondary ion mass spectrometry of molecular solids. Journal of the Chemical Society Chemical Communications, 1982, , 949.	2.0	3
282	Dioxin analysis in feed: cell-based assay versus mass spectrometry method. Accreditation and Quality Assurance, 2006, 11, 38-43.	0.8	3
283	‹b›Measurement of emerging dechloranes in human serum using modulated gas chromatography coupled to electron capture negative ionization timeâ€ofâ€flight mass spectrometry‹/b›. Rapid Communications in Mass Spectrometry, 2016, 30, 2545-2554.	1.5	3
284	ULg Spectra: An Interactive Software Tool To Improve Undergraduate Studentsâ€™ Structural Analysis Skills. Journal of Chemical Education, 2018, 95, 276-280.	2.3	3
285	Covalent Cross-Linking as an Enabler for Structural Mass Spectrometry. Analytical Chemistry, 2019, 91, 12808-12818.	6.5	3
286	Solvent Adducts in Ion Mobility Spectrometry: Toward an Alternative Reaction Probe for Thermometer Ions. Journal of the American Society for Mass Spectrometry, 2020, 31, 1167-1171.	2.8	3
287	Using Ion Mobilityâ€"Mass Spectrometry to Extract Physicochemical Enthalpic and Entropic Contributions from Synthetic Polymers. Journal of the American Society for Mass Spectrometry, 2021, 32, 330-339.	2.8	3
288	Liquid chromatography setup-dependent artefactual methionine oxidation of peptides: The importance of an adapted quality control process. Journal of Chromatography A, 2021, 1654, 462449.	3.7	3

#	Article	IF	Citations
289	Geometric Analysis of Shapes in Ion Mobilityâ€“Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2022, 33, 273-283.	2.8	3
290	Influence of lignin in Reticulitermes santonensis: symbiotic interactions investigated through proteomics. Symbiosis, 2012, 58, 119-125.	2.3	2
291	GCÃ—GC-TOFMS for the Analysis of Metabolites Produced by Termites (Reticulitermes flavipes) Bred on Different Carbon Sources. Separations, 2016, 3, 19.	2.4	2
292	Back cover: Bacillus licheniformis peptidoglycan characterization by CZEâ€“MS: Assessment with the benchmark RPâ€HPLCâ€MS method. Electrophoresis, 2019, 40, NA.	2.4	2
293	In Situ Analysis of Bacterial Lipopeptide Antibiotics by Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging. Methods in Molecular Biology, 2016, 1401, 161-173.	0.9	2
294	Cyclic Peptide Protomer Detection in the Gas Phase: Impact on CCS Measurement and Fragmentation Patterns. Journal of the American Society for Mass Spectrometry, 2022, 33, 851-858.	2.8	2
295	Interaction between antitumor drugs and a double-stranded oligonucleotide studied by electrospray ionization mass spectrometry. , 0, .		1
296	Imaging Metabolites in Agarâ€Based Bacterial Coâ€Cultures with Minimal Sample Preparation using a DIUTHAME Membrane in Surfaceâ€Assisted Laser Desorption/Ionization Mass Spectrometry**. ChemistrySelect, 2022, 7, .	1.5	1
297	Label-Free Higher Order Structure and Dynamic Investigation Method of Proteins in Solution Using an Enzymatic Reactor Coupled to Electrospray High-Resolution Mass Spectrometry Detection. Journal of the American Society for Mass Spectrometry, 2022, 33, 284-295.	2.8	0