

Dietrich A Volmer

List of Publications by Year in descending order

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205
papers

6,696
citations

66343

42
h-index

91884

69
g-index

208
all docs

208
docs citations

208
times ranked

7724
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion activation methods for tandem mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2004, 39, 1091-1112.	1.6	430
2	Recent advances in sample preparation techniques to overcome difficulties encountered during quantitative analysis of small molecules from biofluids using LC-MS/MS. <i>Analyst, The</i> , 2014, 139, 2265.	3.5	212
3	Lipid imaging by mass spectrometry – a review. <i>Analyst, The</i> , 2013, 138, 1289.	3.5	198
4	Study of 4-Quinolone Antibiotics in Biological Samples by Short-Column Liquid Chromatography Coupled with Electrospray Ionization Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 1997, 69, 4143-4155.	6.5	160
5	“Wrong-way-round”™ Electrospray Ionization of Amino Acids. <i>Rapid Communications in Mass Spectrometry</i> , 1997, 11, 1120-1130.	1.5	158
6	Quantitative determination of vitamin D metabolites in plasma using UHPLC-MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 779-789.	3.7	145
7	Vitamin D in chronic liver disease. <i>Liver International</i> , 2013, 33, 338-352.	3.9	138
8	Analysis of vitamin D metabolic markers by mass spectrometry: Current techniques, limitations of the “gold standard” method, and anticipated future directions. <i>Mass Spectrometry Reviews</i> , 2015, 34, 2-23.	5.4	115
9	Electro-catalytic oxidative cleavage of lignin in a protic ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5214.	2.8	114
10	Quantitative analysis of small pharmaceutical drugs using a high repetition rate laser matrix-assisted laser/desorption ionization source. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2303-2309.	1.5	110
11	From differentiating metabolites to biomarkers. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 663-670.	3.7	105
12	Metabolism of Boswellic Acids in Vitro and in Vivo. <i>Drug Metabolism and Disposition</i> , 2008, 36, 1135-1142.	3.3	103
13	Regulation of the brain isoprenoids farnesyl- and geranylgeranylpyrophosphate is altered in male Alzheimer patients. <i>Neurobiology of Disease</i> , 2009, 35, 251-257.	4.4	103
14	Some fundamental and technical aspects of the quantitative analysis of pharmaceutical drugs by matrix-assisted laser desorption/ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 1928-1936.	1.5	102
15	Quantification of low molecular weight compounds by MALDI imaging mass spectrometry – A tutorial review. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 726-739.	2.3	102
16	Rapid determination of corticosteroids in urine by combined solid phase microextraction/liquid chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1997, 11, 1926-1934.	1.5	100
17	Comprehensive Lipidomics Analysis of Bioactive Lipids in Complex Regulatory Networks. <i>Analytical Chemistry</i> , 2010, 82, 8176-8185.	6.5	85
18	Gas chromatographic and mass spectrometric determination of nitroaromatics in water. <i>Journal of Chromatography A</i> , 1990, 518, 21-40.	3.7	83

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19	High-resolution extracted ion chromatography, a new tool for metabolomics and lipidomics using a second-generation orbitrap mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 1411-1418.	1.5	80
20	Electrospray ionization and collision-induced dissociation of antibiotic polyether ionophores. , 1998, 12, 157-164.		74
21	Thermospray liquid chromatographic mass spectrometric multi-residue determination of 128 polar pesticides in aqueous environmental samples. <i>Journal of Chromatography A</i> , 1994, 660, 231-248.	3.7	73
22	Nanostructured solid substrates for efficient laser desorption/ionization mass spectrometry (LDI-MS) of low molecular weight compounds. <i>Analyst, The</i> , 2013, 138, 7053.	3.5	73
23	Sustainable Electrochemical Depolymerization of Lignin in Reusable Ionic Liquids. <i>Scientific Reports</i> , 2017, 7, 5041.	3.3	73
24	Assigning product ions from complex MS/MS spectra: The importance of mass uncertainty and resolving power. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 183-198.	2.8	66
25	Real Time Monitoring of Containerless Microreactions in Acoustically Levitated Droplets via Ambient Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 8396-8403.	6.5	66
26	Study of erythromycin A decomposition products in aqueous solution by solid-phase microextraction/liquid chromatography/tandem mass spectrometry. , 1998, 12, 123-129.		64
27	Assessing the properties of internal standards for quantitative matrix-assisted laser desorption/ionization mass spectrometry of small molecules. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 1517-1524.	1.5	64
28	Mass Spectrometric Profiling of Vitamin D Metabolites beyond 25-Hydroxyvitamin D. <i>Clinical Chemistry</i> , 2015, 61, 1033-1048.	3.2	63
29	Analysis of Nitroaromatics and Nitramines in Ammunition Waste Water and in Aqueous Samples from Former Ammunition Plants and Other Military Sites Analyse von Nitroaromaten und Nitraminen in Munitionsabwasser und wässrigen Proben ehemaliger Munitionsfabriken und anderen Rüstungsaltslasten. <i>Clean - Soil, Air, Water</i> , 1993, 21, 153-166.	0.6	61
30	Toxin Screening in Phytoplankton: Detection and Quantitation Using MALDI Triple Quadrupole Mass Spectrometry. <i>Analytical Chemistry</i> , 2005, 77, 1509-1517.	6.5	60
31	Multiresidue Determination of Sulfonamide Antibiotics in Milk by Short-column Liquid Chromatography Coupled with Electrospray Ionization Tandem Mass Spectrometry. , 1996, 10, 1615-1620.		56
32	Two-dimensional mass defect matrix plots for mapping genealogical links in mixtures of lignin depolymerisation products. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 4835-4843.	3.7	55
33	Structural study of spirolide marine toxins by mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 378, 969-976.	3.7	54
34	Determination of Hyperforin in Mouse Brain by High-Performance Liquid Chromatography/Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2003, 75, 6084-6088.	6.5	51
35	Comparison of MALDI to ESI on a Triple Quadrupole Platform for Pharmacokinetic Analyses. <i>Analytical Chemistry</i> , 2007, 79, 9000-9006.	6.5	50
36	Mass spectrometric analysis of nitrogen- and phosphorus-containing pesticides by liquid chromatography-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1994, 5, 655-675.	2.8	49

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37	Plasma free fatty acid profiling in a fish oil human intervention study using ultra-performance liquid chromatography/electrospray ionization tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 2125-2133.	1.5	49
38	Deciphering dissolved organic matter by Fourier transform ion cyclotron resonance mass spectrometry (FT-ICR MS): from bulk to fractions and individuals. , 2022, 1, .		49
39	Characterization of Isomeric Sulfonamides Using Capillary Zone Electrophoresis Coupled with Nano-Electrospray Quasi-MS/MS/MS. <i>Journal of Mass Spectrometry</i> , 1997, 32, 297-304.	1.6	47
40	Increasing sensitivity and decreasing spot size using an inexpensive, removable hydrophobic coating for matrix-assisted laser desorption/ionisation plates. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2439-2449.	1.5	47
41	Enhanced Mass Defect Filtering To Simplify and Classify Complex Mixtures of Lignin Degradation Products. <i>Analytical Chemistry</i> , 2016, 88, 1328-1335.	6.5	47
42	Automated coupling of capillary-HPLC to matrix-assisted laser desorption/ionization mass spectrometry for the analysis of small molecules utilizing a reactive matrix. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 376, 773-779.	3.7	45
43	Electron-based fragmentation methods in mass spectrometry: An overview. <i>Mass Spectrometry Reviews</i> , 2017, 36, 4-15.	5.4	44
44	Multiresidue analysis of polar pesticides in surface and drinking water by on-line enrichment and thermospray LC-MS. <i>Fresenius' Journal of Analytical Chemistry</i> , 1995, 351, 642-649.	1.5	43
45	Rapid analysis of tetracycline antibiotics by combined solid phase microextraction/high performance liquid chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1999, 13, 1744-1754.	1.5	43
46	Structural study of spirolide marine toxins by mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 378, 977-986.	3.7	43
47	On the isobaric space of 25-hydroxyvitamin D in human serum: potential for interferences in liquid chromatography/tandem mass spectrometry, systematic errors and accuracy issues. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1-9.	1.5	43
48	Electrochemical Lignin Degradation in Ionic Liquids on Ternary Mixed Metal Electrodes. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 232, 189-208.	2.8	42
49	Assessment of molecular diversity of lignin products by various ionization techniques and high-resolution mass spectrometry. <i>Science of the Total Environment</i> , 2020, 713, 136573.	8.0	42
50	Identification of nitrophenols in rain-water by high-performance liquid chromatography with photodiode array detection. <i>Journal of Chromatography A</i> , 1989, 478, 399-407.	3.7	40
51	Quantitative Analysis of Antiretroviral Drugs in Lysates of Peripheral Blood Mononuclear Cells Using MALDI-Triple Quadrupole Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 4969-4975.	6.5	40
52	Seven new microcystin variants discovered from a native <i>Microcystis aeruginosa</i> strain – unambiguous assignment of product ions by tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 220-224.	1.5	40
53	Investigation of photochemical behavior of pesticides in a photolysis reactor coupled on-line with a liquid chromatography-electrospray ionization tandem mass spectrometry system. <i>Journal of Chromatography A</i> , 1998, 794, 129-146.	3.7	39
54	Studies on azaspiracid biotoxins. I. Ultrafast high-resolution liquid chromatography/mass spectrometry separations using monolithic columns. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 2298-2305.	1.5	39

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55	Novel Galvanic Nanostructures of Ag and Pd for Efficient Laser Desorption/Ionization of Low Molecular Weight Compounds. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 841-851.	2.8	38
56	Hyperforin modifies neuronal membrane properties in vivo. <i>Neuroscience Letters</i> , 2004, 367, 139-143.	2.1	37
57	Vitamin D supplementation reduces depressive symptoms in patients with chronic liver disease. <i>Clinical Nutrition</i> , 2016, 35, 950-957.	5.0	37
58	Thermospray mass spectral studies of pesticides. <i>Journal of Chromatography A</i> , 1993, 647, 235-259.	3.7	36
59	Studies on azaspiracid biotoxins. II. Mass spectral behavior and structural elucidation of azaspiracid analogs. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 2306-2316.	1.5	36
60	Effect of acute inflammatory brain injury on accumulation of morphine and morphine 3- and 6-glucuronide in the human brain*. <i>Critical Care Medicine</i> , 2009, 37, 2767-2774.	0.9	36
61	Lenalidomide enhances MOR202-dependent macrophage-mediated effector functions via the vitamin D pathway. <i>Leukemia</i> , 2018, 32, 2445-2458.	7.2	36
62	Determination of Urinary Metabolites of the Emerging UV Filter Octocrylene by Online-SPE-LC-MS/MS. <i>Analytical Chemistry</i> , 2018, 90, 944-951.	6.5	36
63	Analysis of natural organic matter via fourier transform ion cyclotron resonance mass spectrometry: an overview of recent non-petroleum applications. <i>Mass Spectrometry Reviews</i> , 2022, 41, 647-661.	5.4	36
64	Tocotrienol Affects Oxidative Stress, Cholesterol Homeostasis and the Amyloidogenic Pathway in Neuroblastoma Cells: Consequences for Alzheimer's Disease. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1809.	4.1	35
65	Janus kinase inhibitors display broad anti-itch properties: A possible link through the TRPV1 receptor. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 140, 306-309.e3.	2.9	35
66	Mass spectrometry-based methods for the advanced characterization and structural analysis of lignin: A review. <i>Mass Spectrometry Reviews</i> , 2023, 42, 144-188.	5.4	35
67	Liquid chromatography mass/spectrometry multiresidue determination of sulfonylureas after on-line trace enrichment. <i>Rapid Communications in Mass Spectrometry</i> , 1995, 9, 767-771.	1.5	34
68	Shedding light on the structures of lignin compounds: photo-oxidation under artificial UV light and characterization by high resolution mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 8203-8210.	3.7	33
69	Rapid SPME/LC/MS/MS Analysis of N-Methylcarbamate Pesticides in Water. <i>Archives of Environmental Contamination and Toxicology</i> , 1998, 35, 1-7.	4.1	32
70	A comparison of data analysis methods for determining gas phase stabilities by cid: Alkali metal complexes of polyether ionophore antibiotics. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 779-791.	2.8	32
71	An experimental comparison of electrospray ion-trap and matrix-assisted laser desorption/ionization post-source decay mass spectra for the characterization of small drug molecules. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 608-614.	1.5	31
72	Isoprenoid quantitation in human brain tissue: a validated HPLC-fluorescence detection method for endogenous farnesyl- (FPP) and geranylgeranylpyrophosphate (GGPP). <i>Analytical and Bioanalytical Chemistry</i> , 2008, 392, 673-680.	3.7	30

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73	Determination of Titratable Acidity in Wine Using Potentiometric, Conductometric, and Photometric Methods. <i>Journal of Chemical Education</i> , 2017, 94, 1296-1302.	2.3	30
74	Metabolic engineering of the purine biosynthetic pathway in <i>Corynebacterium glutamicum</i> results in increased intracellular pool sizes of IMP and hypoxanthine. <i>Microbial Cell Factories</i> , 2012, 11, 138.	4.0	29
75	Triple Quadrupole Versus High Resolution Quadrupole-Time-of-Flight Mass Spectrometry for Quantitative LC-MS/MS Analysis of 25-Hydroxyvitamin D in Human Serum. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1404-1410.	2.8	29
76	Rapid identification of siderophores by combined thin-layer chromatography/matrix-assisted laser desorption/ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 711-720.	1.5	28
77	Influence of surface melting effects and availability of reagent ions on LDI-MS efficiency after UV laser irradiation of Pd nanostructures. <i>Journal of Mass Spectrometry</i> , 2015, 50, 578-585.	1.6	28
78	Growth and microcystin production of a Brazilian <i>Microcystis aeruginosa</i> strain (LTPNA 02) under different nutrient conditions. <i>Revista Brasileira De Farmacognosia</i> , 2014, 24, 389-398.	1.4	27
79	Comparison of CYP106A1 and CYP106A2 from <i>Bacillus megaterium</i> identification of a novel 11-oxidase activity. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 8495-8514.	3.6	27
80	Chemotyping the distribution of vitamin D metabolites in human serum. <i>Scientific Reports</i> , 2016, 6, 21080.	3.3	27
81	Comparative High-Speed Profiling of Carboxylic Acid Metabolite Levels by Differential Isotope-Coded MALDI Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 7544-7551.	6.5	26
82	Recent instrumental progress in mass spectrometry: advancing resolution, accuracy, and speed of drug detection. <i>Drug Testing and Analysis</i> , 2012, 4, 242-245.	2.6	26
83	Account: Characterization and Identification of Microcystins by Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2014, 20, 1-19.	1.0	26
84	Highly Efficient CYP167A1 (EpoK) dependent Epothilone B Formation and Production of 7-Ketone Epothilone D as a New Epothilone Derivative. <i>Scientific Reports</i> , 2015, 5, 14881.	3.3	26
85	Chemical diversity of lignin degradation products revealed by matrix-optimized MALDI mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 6031-6037.	3.7	26
86	Aggression behaviour induced by oral administration of the Janus-kinase inhibitor tofacitinib, but not oclacitinib, under stressful conditions. <i>European Journal of Pharmacology</i> , 2015, 764, 278-282.	3.5	25
87	Dissociation reactions of protonated anthracycline antibiotics following electrospray ionization-tandem mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2006, 255-256, 130-138.	1.5	24
88	Perspectives for metabolomics in human nutrition: an overview. <i>Nutrition Bulletin</i> , 2008, 33, 324-330.	1.8	24
89	A simple micro-extraction plate assay for automated LC-MS/MS analysis of human serum 25-hydroxyvitamin D levels. <i>Journal of Mass Spectrometry</i> , 2015, 50, 275-279.	1.6	24
90	Gas-phase dissociation reactions of protonated saxitoxin and neosaxitoxin. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 462-477.	2.8	23

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91	Decay Mechanisms of Protonated 4-Quinolone Antibiotics After Electrospray Ionization and Ion Activation. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1974-1986.	2.8	23
92	Structural analysis of small to medium-sized molecules by mass spectrometry after electron-ion fragmentation (ExD) reactions. <i>Analyst, The</i> , 2016, 141, 794-806.	3.5	23
93	The hepatic phosphatidylcholine transporter ABCB4 as modulator of glucose homeostasis. <i>FASEB Journal</i> , 2012, 26, 5081-5091.	0.5	22
94	Two-color emissive probes for click reactions. <i>Chemical Communications</i> , 2014, 50, 12694-12697.	4.1	22
95	Mass spectrometric studies on selective androgen receptor modulators (SARMs) using electron ionization and electrospray ionization/collision-induced dissociation. <i>European Journal of Mass Spectrometry</i> , 2018, 24, 145-156.	1.0	22
96	Automated matrix separation and preconcentration for the trace level determination of metal impurities in ultrapure inorganic salts by high-resolution ICP-MS. <i>Fresenius' Journal of Analytical Chemistry</i> , 1999, 364, 694-699.	1.5	21
97	Analytical Methods for Quantification of Vitamin D and Implications for Research and Clinical Practice. <i>Anticancer Research</i> , 2018, 38, 1137-1144.	1.1	21
98	Hyphenation of capillary high-performance liquid chromatography with matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for nano-scale screening of single-bead combinatorial libraries. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 814-820.	1.5	20
99	A rapid and sensitive assay for determining human brain levels of farnesyl-(FPP) and geranylgeranylpyrophosphate (GGPP) and transferase activities using UHPLC-MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1801-1808.	3.7	20
100	The analytical determination of isoprenoid intermediates from the mevalonate pathway. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 671-685.	3.7	20
101	Monitoring the Authenticity of Organic Grape Juice via Chemometric Analysis of Elemental Data. <i>Food Analytical Methods</i> , 2016, 9, 362-369.	2.6	20
102	Rapid Screening of Carboxylic Acids from Waste and Surface Waters by ESI-MS/MS Using Barium Ion Chemistry and On-Line Membrane Sampling. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 443-450.	2.8	20
103	Quantification of the 3 β and 3 α epimers of 25-hydroxyvitamin D ₃ in dried blood spots by LC-MS/MS using artificial whole blood calibration and chemical derivatization. <i>Talanta</i> , 2017, 165, 398-404.	5.5	20
104	Toward Higher Sensitivity in Quantitative MALDI Imaging Mass Spectrometry of CNS Drugs Using a Nonpolar Matrix. <i>Analytical Chemistry</i> , 2018, 90, 12592-12600.	6.5	20
105	Isotopic Labeling of Metabolites in Drug Discovery Applications. <i>Current Drug Metabolism</i> , 2012, 13, 1213-1225.	1.2	19
106	Analysis of vitamin D metabolic markers by mass spectrometry: Recent progress regarding the δ^6 standard method and integration into clinical practice. <i>Mass Spectrometry Reviews</i> , 2023, 42, 1647-1687.	5.4	19
107	Description of Gas-Phase Ion/Neutral Interactions in Differential Ion Mobility Spectrometry: CV Prediction Using Calibration Runs. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1610-1621.	2.8	18
108	Silica, Hybrid Silica, Hydride Silica and Non-Silica Stationary Phases for Liquid Chromatography. Part II: Chemical and Thermal Stability. <i>Journal of Chromatographic Science</i> , 2015, 53, 1107-1122.	1.4	18

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109	Rapid Quantification of Digitoxin and Its Metabolites Using Differential Ion Mobility Spectrometry-Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 2121-2128.	6.5	17
110	Rapid Quantification of 25-Hydroxyvitamin D ₃ in Human Serum by Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1456-1462.	2.8	17
111	Spatial and molecular changes of mouse brain metabolism in response to immunomodulatory treatment with teriflunomide as visualized by MALDI-MSI. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 353-365.	3.7	17
112	Fluorescence and molecular signatures of dissolved organic matter to monitor and assess its multiple sources from a polluted river in the farming-pastoral ecotone of northern China. <i>Science of the Total Environment</i> , 2022, 837, 154575.	8.0	17
113	Comparative study of different thermospray interfaces with carbamate pesticides: Influence of the ion source geometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1995, 6, 656-667.	2.8	16
114	Detailed Study of Cyanobacterial Microcystins Using High Performance Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1253-1262.	2.8	16
115	The role of physical and chemical properties of Pd nanostructured materials immobilized on inorganic carriers on ion formation in atmospheric pressure laser desorption/ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2014, 49, 468-480.	1.6	16
116	Rapid fingerprinting of lignin by ambient ionization high resolution mass spectrometry and simplified data mining. <i>Analytica Chimica Acta</i> , 2017, 994, 38-48.	5.4	16
117	Characterization of Lignin Compounds at the Molecular Level: Mass Spectrometry Analysis and Raw Data Processing. <i>Molecules</i> , 2021, 26, 178.	3.8	16
118	Periodicity in collision-induced and remote-bond activation of alkali metal ions attached to polyether ionophores. <i>Analyst</i> , The, 2005, 130, 508.	3.5	15
119	Dissociation of deprotonated microcystin variants by collision-induced dissociation following electrospray ionization. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 1981-1992.	1.5	15
120	Simultaneous quantification of digoxin, digitoxin, and their metabolites in serum using high performance liquid chromatography-tandem mass spectrometry. <i>Drug Testing and Analysis</i> , 2015, 7, 937-946.	2.6	15
121	Determining the Binding Sites of β -Cyclodextrin and Peptides by Electron-Capture Dissociation High Resolution Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1143-1149.	2.8	15
122	Online Liquid Chromatography and FT-ICR MS Enable Advanced Separation and Profiling of Organosulfates in Dissolved Organic Matter. <i>ACS ES&T Water</i> , 2021, 1, 1975-1982.	4.6	15
123	Ultra-high resolution for mass spectrometric analysis of complex and low-abundance mixtures – the emergence of FTICR-MS as an essential analytical tool. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 373, 378-389.	3.7	14
124	Studies on azaspiracid biotoxins. III. Instrumental validation for rapid quantification of AZA 1 in complex biological matrices. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2153-2159.	1.5	14
125	Different iron-chelating properties of pyochelin diastereoisomers revealed by LC/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 606-611.	3.7	14
126	Evaluation of macro- and microelement levels for verifying the authenticity of organic eggs by using chemometric techniques. <i>Analytical Methods</i> , 2015, 7, 2577-2584.	2.7	14

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127	Analysis of fatty acids and triacylglycerides by Pd nanoparticle-assisted laser desorption/ionization mass spectrometry. <i>Analytical Methods</i> , 2015, 7, 3701-3707.	2.7	14
128	Sorption of hydrophilic dyes on anodic aluminium oxide films and application to pH sensing. <i>Analyst, The</i> , 2015, 140, 771-778.	3.5	14
129	Structural characterization of pyoverdines produced by <i>Pseudomonas putida</i> KT2440 and <i>Pseudomonas taiwanensis</i> VLB120. <i>BioMetals</i> , 2017, 30, 589-597.	4.1	14
130	MALDI Mass Spectral Imaging of Bile Acids Observed as Deprotonated Molecules and Proton-Bound Dimers from Mouse Liver Sections. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 711-722.	2.8	14
131	Rapid mass spectral fingerprinting of complex mixtures of decomposed lignin: Data processing methods for high-resolution full-scan mass spectra. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 2-10.	1.5	14
132	Sample preparation techniques for extraction of vitamin D metabolites from non-conventional biological sample matrices prior to LC-MS/MS analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 4613-4632.	3.7	14
133	Intriguing Differences in the Gas-Phase Dissociation Behavior of Protonated and Deprotonated Gonyautoxin Epimers. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 2011-20.	2.8	13
134	Quantitation of intracellular purine intermediates in different <i>Corynebacteria</i> using electrospray LC-MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 2295-2305.	3.7	13
135	Prerequisites for supplying complementary high-resolution mass spectrometry data in RCM publications. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 3499-3500.	1.5	12
136	Micro- and nanostructures and their application in gas chromatography. <i>Analyst, The</i> , 2012, 137, 3195.	3.5	12
137	Development of an electrospray LC-MS/MS method for quantification of Δ^9 -tetrahydrocannabinol and its main metabolite in oral fluid. <i>Drug Testing and Analysis</i> , 2012, 4, 668-674.	2.6	12
138	Application of phase correction to improve the characterization of photooxidation products of lignin using 7T Tesla Fourier-transform ion cyclotron resonance mass spectrometry. <i>Facets</i> , 2017, 2, 461-475.	2.4	12
139	Detection and Confirmation of N-Nitrosodialkylamines Using Liquid Chromatography-Electrospray Ionization Coupled On-Line with a Photolysis Reactor. <i>Analytical Chemistry</i> , 1996, 68, 546-552.	6.5	11
140	Simultaneous quantification of acetaminophen and structurally related compounds in human serum and plasma. <i>Drug Testing and Analysis</i> , 2014, 6, 451-460.	2.6	11
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