

# Dietrich A Volmer

## List of Publications by Citations

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189  
papers

5,427  
citations

40  
h-index

64  
g-index

205  
ext. papers

6,039  
ext. citations

3.8  
avg, IF

6.08  
L-index

#	Paper	IF	Citations
189	Ion activation methods for tandem mass spectrometry. <i>Journal of Mass Spectrometry</i> , <b>2004</b> , 39, 1091-1112.	2.2	367
188	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> , <b>2014</b> , 139, 2265-76.	5.8	172
187	Lipid imaging by mass spectrometry - a review. <i>Analyst, The</i> , <b>2013</b> , 138, 1289-315	5	166
186	Study of 4-quinolone antibiotics in biological samples by short-column liquid chromatography coupled with electrospray ionization tandem mass spectrometry. <i>Analytical Chemistry</i> , <b>1997</b> , 69, 4143-53.	7.8	147
185	Wrong-way-round Electro spray Ionization of Amino Acids. <i>Rapid Communications in Mass Spectrometry</i> , <b>1997</b> , 11, 1120-1130	2.2	145
184	Quantitative determination of vitamin D metabolites in plasma using UHPLC-MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 398, 779-89	4.4	122
183	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> , <b>2003</b> , 17, 2303-9	2.2	102
182	Vitamin D in chronic liver disease. <i>Liver International</i> , <b>2013</b> , 33, 338-52	7.9	101
181	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> , <b>2005</b> , 19, 1928-36	2.2	96
180	Regulation of the brain isoprenoids farnesyl- and geranylgeranylpyrophosphate is altered in male Alzheimer patients. <i>Neurobiology of Disease</i> , <b>2009</b> , 35, 251-7	7.5	93
179	Rapid determination of corticosteroids in urine by combined solid phase microextraction/liquid chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>1997</b> , 11, 1926-33	2.2	92
178	Electro-catalytic oxidative cleavage of lignin in a protic ionic liquid. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 5214-21	3.6	89
177	From differentiating metabolites to biomarkers. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 394, 663-70.	4.4	87
176	Metabolism of boswellic acids in vitro and in vivo. <i>Drug Metabolism and Disposition</i> , <b>2008</b> , 36, 1135-42	4	85
175	Comprehensive lipidomics analysis of bioactive lipids in complex regulatory networks. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 8176-85	7.8	80
174	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> , <b>2009</b> , 23, 1411-8	2.2	78
173	Quantification of low molecular weight compounds by MALDI imaging mass spectrometry - A tutorial review. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2017</b> , 1865, 726-739	4	76

172	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> , <b>2015</b> , 34, 2-23	11	76
171	Gas chromatographic and mass spectrometric determination of nitroaromatics in water. <i>Journal of Chromatography A</i> , <b>1990</b> , 518, 21-40	4.5	75
170	Thermospray liquid chromatographic-mass spectrometric multi-residue determination of 128 polar pesticides in aqueous environmental samples. <i>Journal of Chromatography A</i> , <b>1994</b> , 660, 231-248	4.5	65
169	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> , <b>2005</b> , 16, 183-98	3.5	64
168	Nanostructured solid substrates for efficient laser desorption/ionization mass spectrometry (LDI-MS) of low molecular weight compounds. <i>Analyst, The</i> , <b>2013</b> , 138, 7053-65	5	63
167	Study of erythromycin A decomposition products in aqueous solution by solid-phase microextraction/liquid chromatography/tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>1998</b> , 12, 123-9	2.2	60
166	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> , <b>2006</b> , 20, 1517-24	2.2	60
165	Electrospray ionization and collision-induced dissociation of antibiotic polyether ionophores. <i>Rapid Communications in Mass Spectrometry</i> , <b>1998</b> , 12, 157-64	2.2	59
164	Toxin screening in phytoplankton: detection and quantitation using MALDI triple quadrupole mass spectrometry. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 1509-17	7.8	57
163	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> , <b>1993</b> , 21, 153-166		57
162	Real Time Monitoring of Containerless Microreactions in Acoustically Levitated Droplets via Ambient Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 8396-403	7.8	56
161	Multiresidue determination of sulfonamide antibiotics in milk by short-column liquid chromatography coupled with electrospray ionization tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>1996</b> , 10, 1615-20	2.2	50
160	Sustainable Electrochemical Depolymerization of Lignin in Reusable Ionic Liquids. <i>Scientific Reports</i> , <b>2017</b> , 7, 5041	4.9	49
159	Structural study of spirolide marine toxins by mass spectrometry. Part I. Fragmentation pathways of 13-desmethyl spirolide C by collision-induced dissociation and infrared multiphoton dissociation mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , <b>2004</b> , 378, 969-76	4.4	49
158	Comparison of MALDI to ESI on a triple quadrupole platform for pharmacokinetic analyses. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 9000-6	7.8	46
157	Determination of hyperforin in mouse brain by high-performance liquid chromatography/tandem mass spectrometry. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 6084-8	7.8	46
156	Mass spectrometric profiling of vitamin D metabolites beyond 25-hydroxyvitamin D. <i>Clinical Chemistry</i> , <b>2015</b> , 61, 1033-48	5.5	45
155	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> , <b>2003</b> , 17, 2439-49	2.2	44

154	Mass spectrometric analysis of nitrogen- and phosphorus-containing pesticides by liquid chromatography-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>1994</b> , 5, 655-75	3.5	44
153	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> , <b>2008</b> , 22, 2125-33	2.2	43
152	Enhanced Mass Defect Filtering To Simplify and Classify Complex Mixtures of Lignin Degradation Products. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 1328-35	7.8	42
151	Characterization of Isomeric Sulfonamides Using Capillary Zone Electrophoresis Coupled with Nano-Electrospray Quasi-MS/MS/MS. <i>Journal of Mass Spectrometry</i> , <b>1997</b> , 32, 297-304	2.2	42
150	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> , <b>1995</b> , 351, 642-649		41
149	Two-dimensional mass defect matrix plots for mapping genealogical links in mixtures of lignin depolymerisation products. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 4835-43	4.4	40
148	Structural study of spirolide marine toxins by mass spectrometry. Part II. Mass spectrometric characterization of unknown spirolides and related compounds in a cultured phytoplankton extract. <i>Analytical and Bioanalytical Chemistry</i> , <b>2004</b> , 378, 977-86	4.4	40
147	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> , <b>2003</b> , 376, 773-9	4.4	40
146	Rapid analysis of tetracycline antibiotics by combined solid phase microextraction/high performance liquid chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>1999</b> , 13, 1744-54	2.2	39
145	Identification of nitrophenols in rain-water by high-performance liquid chromatography with photodiode array detection. <i>Journal of Chromatography A</i> , <b>1989</b> , 478, 399-407	4.5	37
144	Quantitative analysis of antiretroviral drugs in lysates of peripheral blood mononuclear cells using MALDI-triple quadrupole mass spectrometry. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 4969-75	7.8	36
143	Studies on azaspiracid biotoxins. I. Ultrafast high-resolution liquid chromatography/mass spectrometry separations using monolithic columns. <i>Rapid Communications in Mass Spectrometry</i> , <b>2002</b> , 16, 2298-305	2.2	36
142	Electron-based fragmentation methods in mass spectrometry: An overview. <i>Mass Spectrometry Reviews</i> , <b>2017</b> , 36, 4-15	11	35
141	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> , <b>2015</b> , 29, 1-9	2.2	34
140	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> , <b>2014</b> , 25, 841-51	3.5	34
139	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> , <b>2015</b> , 29, 220-4	2.2	34
138	Investigation of photochemical behavior of pesticides in a photolysis reactor coupled on-line with a liquid chromatography-electrospray ionization tandem mass spectrometry system. Application to trace and confirmatory analyses in food samples. <i>Journal of Chromatography A</i> , <b>1998</b> , 794, 129-46	4.5	33
137	Hyperforin modifies neuronal membrane properties in vivo. <i>Neuroscience Letters</i> , <b>2004</b> , 367, 139-43	3.3	33

136	Studies on azaspiracid biotoxins. II. Mass spectral behavior and structural elucidation of azaspiracid analogs. <i>Rapid Communications in Mass Spectrometry</i> , <b>2002</b> , 16, 2306-16	2.2	31
135	Thermospray mass spectral studies of pesticides. <i>Journal of Chromatography A</i> , <b>1993</b> , 647, 235-259	4.5	31
134	Vitamin D supplementation reduces depressive symptoms in patients with chronic liver disease. <i>Clinical Nutrition</i> , <b>2016</b> , 35, 950-7	5.9	30
133	Rapid SPME/LC/MS/MS analysis of N-methylcarbamate pesticides in water. <i>Archives of Environmental Contamination and Toxicology</i> , <b>1998</b> , 35, 1-7	3.2	30
132	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> , <b>2001</b> , 15, 608-14	2.2	30
131	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> , <b>2016</b> , 17,	6.3	29
130	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> , <b>2016</b> , 408, 8203-8210	4.4	28
129	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> , <b>2009</b> , 37, 2767-74	1.4	28
128	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> , <b>2008</b> , 392, 673-80	4.4	28
127	Liquid chromatography mass/spectrometry multiresidue determination of sulfonylureas after on-line trace enrichment. <i>Rapid Communications in Mass Spectrometry</i> , <b>1995</b> , 9, 767-771	2.2	28
126	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> , <b>2015</b> , 50, 578-85	2.2	27
125	Account: characterization and identification of microcystins by mass spectrometry. <i>European Journal of Mass Spectrometry</i> , <b>2014</b> , 20, 1-19	1.1	26
124	Janus kinase inhibitors display broad anti-itch properties: A possible link through the TRPV1 receptor. <i>Journal of Allergy and Clinical Immunology</i> , <b>2017</b> , 140, 306-309.e3	11.5	25
123	Growth and microcystin production of a Brazilian <i>Microcystis aeruginosa</i> strain (LTPNA 02) under different nutrient conditions. <i>Revista Brasileira De Farmacognosia</i> , <b>2014</b> , 24, 389-398	2	25
122	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> , <b>2005</b> , 16, 779-91	3.5	25
121	Assessment of molecular diversity of lignin products by various ionization techniques and high-resolution mass spectrometry. <i>Science of the Total Environment</i> , <b>2020</b> , 713, 136573	10.2	23
120	Lenalidomide enhances MOR202-dependent macrophage-mediated effector functions via the vitamin D pathway. <i>Leukemia</i> , <b>2018</b> , 32, 2445-2458	10.7	23
119	Electrochemical Lignin Degradation in Ionic Liquids on Ternary Mixed Metal Electrodes. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2018</b> , 232, 189-208	3.1	23

118	Chemotyping the distribution of vitamin D metabolites in human serum. <i>Scientific Reports</i> , <b>2016</b> , 6, 21080-9	4.9	23
117	Rapid identification of siderophores by combined thin-layer chromatography/matrix-assisted laser desorption/ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2005</b> , 19, 711-20	2.2	23
116	Gas-phase dissociation reactions of protonated saxitoxin and neosaxitoxin. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2004</b> , 15, 462-77	3.5	21
115	Determination of Urinary Metabolites of the Emerging UV Filter Octocrylene by Online-SPE-LC-MS/MS. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 944-951	7.8	21
114	Structural analysis of small to medium-sized molecules by mass spectrometry after electron-ion fragmentation (ExD) reactions. <i>Analyst, The</i> , <b>2016</b> , 141, 794-806	5	20
113	Recent instrumental progress in mass spectrometry: advancing resolution, accuracy, and speed of drug detection. <i>Drug Testing and Analysis</i> , <b>2012</b> , 4, 242-5	3.5	20
112	Comparative high-speed profiling of carboxylic acid metabolite levels by differential isotope-coded MALDI mass spectrometry. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 7544-51	7.8	20
111	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> , <b>2010</b> , 398, 1801-8	4.4	20
110	Comparison of CYP106A1 and CYP106A2 from <i>Bacillus megaterium</i> - identification of a novel 11-oxidase activity. <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 8495-514	5.7	19
109	Highly Efficient CYP167A1 (EpoK) dependent Epothilone B Formation and Production of 7-Ketone Epothilone D as a New Epothilone Derivative. <i>Scientific Reports</i> , <b>2015</b> , 5, 14881	4.9	19
108	The hepatic phosphatidylcholine transporter ABCB4 as modulator of glucose homeostasis. <i>FASEB Journal</i> , <b>2012</b> , 26, 5081-91	0.9	19
107	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> , <b>2018</b> , 24, 145-156	1.1	18
106	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> , <b>2016</b> , 27, 443-50	3.5	18
105	Isotopic labeling of metabolites in drug discovery applications. <i>Current Drug Metabolism</i> , <b>2012</b> , 13, 1213-25	3.5	18
104	Dissociation reactions of protonated anthracycline antibiotics following electrospray ionization-tandem mass spectrometry. <i>International Journal of Mass Spectrometry</i> , <b>2006</b> , 255-256, 130-138	1.9	18
103	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> , <b>2002</b> , 16, 814-20	2.2	18
102	Two-color emissive probes for click reactions. <i>Chemical Communications</i> , <b>2014</b> , 50, 12694-7	5.8	17
101	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> , <b>2014</b> , 25, 1610-21	2.5	17



100	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> , <b>2015</b> , 50, 275-9	2.2	17
99	Perspectives for Metabolomics in Human Nutrition: An Overview. <i>Nutrition Bulletin</i> , <b>2008</b> , 33, 324-330	3.5	17
98	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> , <b>1999</b> , 364, 694-699		17
97	Aggression behaviour induced by oral administration of the Janus-kinase inhibitor tofacitinib, but not oclacitinib, under stressful conditions. <i>European Journal of Pharmacology</i> , <b>2015</b> , 764, 278-282	5.3	16
96	Chemical diversity of lignin degradation products revealed by matrix-optimized MALDI mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 6031-6037	4.4	16
95	Detailed study of cyanobacterial microcystins using high performance tandem mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2014</b> , 25, 1253-62	3.5	16
94	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> , <b>2014</b> , 49, 468-80	2.2	16
93	The analytical determination of isoprenoid intermediates from the mevalonate pathway. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 402, 671-85	4.4	16
92	Decay mechanisms of protonated 4-quinolone antibiotics after electrospray ionization and ion activation. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2014</b> , 25, 1974-86	3.5	16
91	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> , <b>2012</b> , 11, 138	6.4	16
90	Analytical Methods for Quantification of Vitamin D and Implications for Research and Clinical Practice. <i>Anticancer Research</i> , <b>2018</b> , 38, 1137-1144	2.3	16
89	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> , <b>2016</b> , 27, 1404-10	3.5	16
88	Determination of Titratable Acidity in Wine Using Potentiometric, Conductometric, and Photometric Methods. <i>Journal of Chemical Education</i> , <b>2017</b> , 94, 1296-1302	2.4	15
87	Rapid quantification of digitoxin and its metabolites using differential ion mobility spectrometry-tandem mass spectrometry. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 2121-8	7.8	15
86	Periodicity in collision-induced and remote-bond activation of alkali metal ions attached to polyether ionophores. <i>Analyst, The</i> , <b>2005</b> , 130, 508-13	5	15
85	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> , <b>2015</b> , 53, 1107-22	1.4	14
84	Dissociation of deprotonated microcystin variants by collision-induced dissociation following electrospray ionization. <i>Rapid Communications in Mass Spectrometry</i> , <b>2011</b> , 25, 1981-92	2.2	14
83	Quantification of the 3 $\beta$ and 3 $\alpha$ epimers of 25-hydroxyvitamin D in dried blood spots by LC-MS/MS using artificial whole blood calibration and chemical derivatization. <i>Talanta</i> , <b>2017</b> , 165, 398-404	6.2	13

82	Analysis of fatty acids and triacylglycerides by Pd nanoparticle-assisted laser desorption/ionization mass spectrometry. <i>Analytical Methods</i> , <b>2015</b> , 7, 3701-3707	3.2	13
81	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> , <b>2020</b> ,	11	13
80	Monitoring the Authenticity of Organic Grape Juice via Chemometric Analysis of Elemental Data. <i>Food Analytical Methods</i> , <b>2016</b> , 9, 362-369	3.4	13
79	Quantitation of intracellular purine intermediates in different Corynebacteria using electrospray LC-MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 404, 2295-305	4.4	13
78	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> , <b>2002</b> , 373, 378-89	4.4	13
77	Determining the Binding Sites of $\beta$ -Cyclodextrin and Peptides by Electron-Capture Dissociation High Resolution Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2015</b> , 26, 1143-9	3.5	12
76	Rapid Quantification of 25-Hydroxyvitamin D in Human Serum by Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2018</b> , 29, 1456-1462	3.5	12
75	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> , <b>2019</b> , 33 Suppl 1, 2-10	2.2	12
74	Intriguing differences in the gas-phase dissociation behavior of protonated and deprotonated gonyautoxin epimers. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2011</b> , 22, 2011-20	3.5	12
73	Different iron-chelating properties of pyochelin diastereoisomers revealed by LC/MS. <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 385, 606-11	4.4	12
72	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> , <b>1995</b> , 6, 656-67	3.5	12
71	Toward Higher Sensitivity in Quantitative MALDI Imaging Mass Spectrometry of CNS Drugs Using a Nonpolar Matrix. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 12592-12600	7.8	12
70	Rapid fingerprinting of lignin by ambient ionization high resolution mass spectrometry and simplified data mining. <i>Analytica Chimica Acta</i> , <b>2017</b> , 994, 38-48	6.6	11
69	Studies on azaspiracid biotoxins. III. Instrumental validation for rapid quantification of AZA 1 in complex biological matrices. <i>Rapid Communications in Mass Spectrometry</i> , <b>2003</b> , 17, 2153-9	2.2	11
68	Determining fatty acids by desorption/ionization mass spectrometry using thin-layer chromatography substrates. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 4513-22	4.4	10
67	Evaluation of macro- and microelement levels for verifying the authenticity of organic eggs by using chemometric techniques. <i>Analytical Methods</i> , <b>2015</b> , 7, 2577-2584	3.2	10
66	Sorption of hydrophilic dyes on anodic aluminium oxide films and application to pH sensing. <i>Analyst, The</i> , <b>2015</b> , 140, 771-8	5	10
65	p-Coumaric acid, a novel and effective biomarker for quantifying hypoxic stress by HILIC-ESI-MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2016</b> , 1020, 6-13	3.2	10



64	Simultaneous quantification of acetaminophen and structurally related compounds in human serum and plasma. <i>Drug Testing and Analysis</i> , <b>2014</b> , 6, 451-60	3.5	10
63	Micro- and nanostructures and their application in gas chromatography. <i>Analyst, The</i> , <b>2012</b> , 137, 3195-204		10
62	Development of an electrospray LC-MS/MS method for quantification of (R)- $\Delta^9$ -tetrahydrocannabinol and its main metabolite in oral fluid. <i>Drug Testing and Analysis</i> , <b>2012</b> , 4, 668-74	3.5	10
61	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> , <b>2017</b> , 2, 461-473	2.3	10
60	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> , <b>2019</b> , 411, 353-365	4.4	10
59	Simultaneous quantification of digoxin, digitoxin, and their metabolites in serum using high performance liquid chromatography-tandem mass spectrometry. <i>Drug Testing and Analysis</i> , <b>2015</b> , 7, 937-45	3.5	9
58	Detection and confirmation of N-nitrosodialkylamines using liquid chromatography-electrospray ionization coupled on-line with a photolysis reactor. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 546-52	7.8	9
57	Novel Mixed-Mode Stationary Phases for Chromatographic Separation of Complex Mixtures of Decomposed Lignin. <i>ChemistrySelect</i> , <b>2017</b> , 2, 779-786	1.8	8
56	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> , <b>2018</b> , 29, 711-722	3.5	8
55	Rapid narrow band elution for on-line SPE using a novel solvent plug injection technique. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 404, 433-45	4.4	8
54	Comprehensive quantitative determination of PUFA-related bioactive lipids for functional lipidomics using high-resolution mass spectrometry. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1198, 221-32	1.4	8
53	Evaluation of a cyano stationary phase for the determination of tacrolimus, sirolimus and cyclosporin A in whole blood by high-performance liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2004</b> , 809, 227-234	3.2	8
52	Structural characterization of pyoverdines produced by <i>Pseudomonas putida</i> KT2440 and <i>Pseudomonas taiwanensis</i> VLB120. <i>BioMetals</i> , <b>2017</b> , 30, 589-597	3.4	7
51	On the physicochemical and surface properties of 1-alkyl 3-methylimidazolium bis(nonafluorobutylsulfonate) ionic liquids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 529, 169-177	5.1	7
50	Monofluorination and Trifluoromethylation of BODIPY Dyes for Prolonged Single-Molecule Detection. <i>ChemPhysChem</i> , <b>2016</b> , 17, 433-42	3.2	7
49	Impact of analyte ablation and surface acidity of Pd nanoparticles on efficiency of surface-assisted laser desorption/ionization-mass spectrometry. <i>International Journal of Mass Spectrometry</i> , <b>2015</b> , 387, 24-30	1.9	6
48	Comprehensive analysis of Ginkgo tablets by easy ambient sonic spray ionization mass spectrometry. <i>Canadian Journal of Chemistry</i> , <b>2013</b> , 91, 671-678	0.9	6
47	Infrared multiphoton dissociation of the siderophore enterobactin and its Fe(III) complex. Influence of Fe(III) binding on dissociation kinetics and relative energetics. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2007</b> , 18, 632-41	3.5	6

46	Mass spectral characterization of phloroglucinol derivatives hyperforin and adhyperforin. <i>Rapid Communications in Mass Spectrometry</i> , <b>2006</b> , 20, 2641-8	2.2	6
45	Determination of chlorhexidine retention in different oral sites using matrix-assisted laser desorption/ionization-time of flight mass spectrometry. <i>Archives of Oral Biology</i> , <b>2020</b> , 110, 104623	2.8	6
44	Exploring the potential of high resolution mass spectrometry for the investigation of lignin-derived phenol substitutes in phenolic resin syntheses. <i>Analytical and Bioanalytical Chemistry</i> , <b>2017</b> , 409, 3441-3451	4.4	5
43	Assessment of 3-epi-25-hydroxyvitamin D levels during cholecalciferol supplementation in adults with chronic liver diseases. <i>Applied Physiology, Nutrition and Metabolism</i> , <b>2016</b> , 41, 1311-1317	3	5
42	Letter: Cyclodextrin affects the formation of isomerization products during peptide deamidation. <i>European Journal of Mass Spectrometry</i> , <b>2015</b> , 21, 701-5	1.1	5
41	Electron-capture dissociation for investigating host/guest complexes of 18-crown-6-ether and peptides. <i>Rapid Communications in Mass Spectrometry</i> , <b>2015</b> , 29, 2316-8	2.2	5
40	Differential distribution of probenecid as detected by on-tissue mass spectrometry. <i>Cell and Tissue Research</i> , <b>2015</b> , 360, 427-9	4.2	5
39	Linked multiple-stage mass spectrometry experiments in an ion-trap using filtered noise fields techniques. <i>Rapid Communications in Mass Spectrometry</i> , <b>2000</b> , 14, 2143-5	2.2	5
38	Characterization of Lignin Compounds at the Molecular Level: Mass Spectrometry Analysis and Raw Data Processing. <i>Molecules</i> , <b>2021</b> , 26,	4.8	5
37	Magnetic beads as an extraction medium for simultaneous quantification of acetaminophen and structurally related compounds in human serum. <i>Drug Testing and Analysis</i> , <b>2015</b> , 7, 457-66	3.5	4
36	Influence of core size and capping ligand of gold nanoparticles on the desorption/ionization efficiency of small biomolecules in AP-SALDI-MS. <i>Analytical Science Advances</i> , <b>2020</b> , 1, 210-220	1.1	4
35	A novel magnet focusing plate for matrix-assisted laser desorption/ionization analysis of magnetic bead-bound analytes. <i>Rapid Communications in Mass Spectrometry</i> , <b>2013</b> , 27, 1011-8	2.2	4
34	Ion trap tandem mass spectrometry of biological molecules using wide range excitation CID. <i>Journal of Mass Spectrometry</i> , <b>2003</b> , 38, 687-9	2.2	4
33	Modern drug discovery and the progression toward a universal mass spectrometer. <i>Analytical and Bioanalytical Chemistry</i> , <b>2005</b> , 381, 90-2	4.4	4
32	Screening Dyrk1A inhibitors by MALDI-QqQ mass spectrometry: systematic comparison to established radiometric, luminescence, and LC-UV-MS assays. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 2841-52	4.4	3
31	Activation of Reactive MALDI Adduct Ions Enables Differentiation of Dihydroxylated Vitamin D Isomers. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2017</b> , 28, 2532-2537	3.5	3
30	Fragmentation patterns of boron-dipyrrromethene (BODIPY) dyes by electrospray ionization high-resolution tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2015</b> , 29, 885-902	3.2	3
29	Biosynthetic production of <sup>13</sup> C and <sup>14</sup> C erythronolide labeled erythromycin A. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , <b>1997</b> , 39, 59-67	1.9	3

28	Examining the analytical capabilities of a desolvating microconcent nebulizer for inductively coupled plasma-mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>1999</b> , 13, 84-86	2.2	3
27	Characterization of nitrosation products in cosmetics raw materials by liquid chromatography/mass spectrometry techniques. <i>Rapid Communications in Mass Spectrometry</i> , <b>1996</b> , 10, 715-20	2.2	3
26	Quantitative Analysis of Pharmaceutical Drugs Using a Combination of Acoustic Levitation and High Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 6019-6024	7.8	3
25	Online Liquid Chromatography and FT-ICR MS Enable Advanced Separation and Profiling of Organosulfates in Dissolved Organic Matter. <i>ACS ES&amp;T Water</i> , <b>2021</b> , 1, 1975-1982		3
24	How to prepare a manuscript fit-for-purpose for submission and avoid getting a 'desk-reject'. <i>Rapid Communications in Mass Spectrometry</i> , <b>2016</b> , 30, 2573-2576	2.2	3
23	Quadrupole detection FT-ICR mass spectrometry offers deep profiling of residue oil: A systematic comparison of 27 Tesla versus 15 Tesla instruments. <i>Analytical Science Advances</i> , <b>2021</b> , 2, 272-278	1.1	3
22	Mass spectrometry-based methods for the advanced characterization and structural analysis of lignin: A review. <i>Mass Spectrometry Reviews</i> , <b>2021</b> ,	11	3
21	Direct aqueous measurement of 25-hydroxyvitamin D levels in a cellular environment by LC-MS/MS using the novel chemical derivatization reagent MDBP. <i>Analytical and Bioanalytical Chemistry</i> , <b>2017</b> , 409, 2705-2714	4.4	2
20	A simple MALDI target plate with channel design to improve detection sensitivity and reproducibility for quantitative analysis of biomolecules. <i>Journal of Mass Spectrometry</i> , <b>2019</b> , 54, 878-884	2.2	2
19	Synthesis of Low Abundant Vitamin D Metabolites and Assaying Their Distribution in Human Serum by Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS) as a New Tool for Diagnosis and Risk Prediction of Vitamin D Related Diseases <b>2017</b> ,		2
18	HPLC with Thermospray Mass Spectrometry. <i>Chemistry of Plant Protection</i> , <b>1995</b> , 133-179		2
17	Ultrathin Homogenous AuNP Monolayers as Tunable Functional Substrates for Surface-Assisted Laser Desorption/Ionization of Small Biomolecules. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2020</b> , 31, 47-57	3.5	2
16	Using differential ion mobility spectrometry to perform class-specific ion-molecule reactions of 4-quinolones with selected chemical reagents. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 6247-6253	4.4	1
15	Structural characterization of a degradation product of rocuronium using nanoelectrospray-high resolution mass spectrometry. <i>Drug Testing and Analysis</i> , <b>2015</b> , 7, 773-9	3.5	1
14	Dispelling the myths surrounding the Research Excellence Framework. <i>Rapid Communications in Mass Spectrometry</i> , <b>2012</b> , 26, 399-402	2.2	1
13	Dedication to Dr. Robert Boyd. <i>Rapid Communications in Mass Spectrometry</i> , <b>2006</b> , 20, 1492-6	2.2	1
12	Overestimation of 3β-over 3α5-Hydroxyvitamin D Levels in Serum: A Mechanistic Rationale for the Different Mass Spectral Properties of the Vitamin D Epimers. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2021</b> , 32, 1116-1125	3.5	1
11	First insights into chlorhexidine retention in the oral cavity after application of different regimens. <i>Clinical Oral Investigations</i> , <b>2021</b> , 25, 6109-6118	4.2	1

10	Characterization of the iron-binding properties of pyoverdine using electron-capture dissociation-tandem mass spectrometry. <i>BioMetals</i> , <b>2016</b> , 29, 53-60	3.4	1
9	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> , <b>2022</b> , 154575	10.2	1
8	Influence of core size and capping ligand of gold nanoparticles on the desorption/ionization efficiency of small biomolecules in AP-SALDI-MS. <i>Analytical Science Advances</i> , <b>2020</b> , 1, 209-209	1.1	0
7	Analytical considerations for accurately capturing the relevant species contributing to vitamin D status in liquid chromatography-tandem mass spectrometry assays. <i>Analytical Science Advances</i> , <b>2022</b> , 3, 14-20	1.1	0
6	Principles of high-resolution MS <b>2014</b> , 6-20		
5	Dr Leslie J. C. Bluck (1956-2014). <i>Rapid Communications in Mass Spectrometry</i> , <b>2014</b> , 28, 1777-8	2.2	
4	Screening Single-Bead Combinatorial Libraries using Capillary HPLC and MALDI-TOF-MS <b>2004</b> , 147-161		
3	Meet the Editors-in-Chief. <i>Analytical Science Advances</i> , <b>2020</b> , 1, 6	1.1	
2	Editorial for special issue: Metabolomics in India. <i>Analytical Science Advances</i> , <b>2021</b> , 2, 495-496	1.1	
1	Evaluation of a cyano stationary phase for the determination of tacrolimus, sirolimus and cyclosporin A in whole blood by high-performance liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2004</b> , 809, 287-94	3.2	