

Gary J Van Berkel

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166
papers

8,643
citations

51
h-index

85
g-index

171
ext. papers

9,128
ext. citations

5.1
avg, IF

6.2
L-index

#	Paper	IF	Citations
166	Fully automated liquid extraction-based surface sampling and ionization using a chip-based robotic nanoelectrospray platform. <i>Journal of Mass Spectrometry</i> , 2010 , 45, 252-60	2.2	271
165	Established and emerging atmospheric pressure surface sampling/ionization techniques for mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2008 , 43, 1161-80	2.2	265
164	Electrochemical origin of radical cations observed in electrospray ionization mass spectra. <i>Analytical Chemistry</i> , 1992 , 64, 1586-1593	7.8	259
163	Electrochemical processes in electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2000 , 35, 939-52	2.2	247
162	Thin-layer chromatography and mass spectrometry coupled using desorption electrospray ionization. <i>Analytical Chemistry</i> , 2005 , 77, 1207-15	7.8	222
161	Electrospray ionization combined with ion trap mass spectrometry. <i>Analytical Chemistry</i> , 1990 , 62, 1284-1295	7.8	215
160	Urea-functionalized M4L6 cage receptors: anion-templated self-assembly and selective guest exchange in aqueous solutions. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8525-34	16.4	195
159	Thin-layer chromatography and electrospray mass spectrometry coupled using a surface sampling probe. <i>Analytical Chemistry</i> , 2002 , 74, 6216-23	7.8	175
158	Changes in bulk solution pH caused by the inherent controlled-current electrolytic process of an electrospray ion source. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997 , 162, 55-67		171
157	Characterization of an Electrospray Ion Source as a Controlled-Current Electrolytic Cell. <i>Analytical Chemistry</i> , 1995 , 67, 2916-2923	7.8	169
156	Reactions of dimethylamine with multiply charged ions of cytochrome c. <i>Journal of the American Chemical Society</i> , 1990 , 112, 5668-5670	16.4	161
155	Derivatization for electrospray ionization mass spectrometry. 3. Electrochemically ionizable derivatives. <i>Analytical Chemistry</i> , 1998 , 70, 1544-54	7.8	147
154	Chemical Derivatization for Electrospray Ionization Mass Spectrometry. 1. Alkyl Halides, Alcohols, Phenols, Thiols, and Amines. <i>Analytical Chemistry</i> , 1994 , 66, 1302-1315	7.8	146
153	Comparison of drug distribution images from whole-body thin tissue sections obtained using desorption electrospray ionization tandem mass spectrometry and autoradiography. <i>Analytical Chemistry</i> , 2008 , 80, 5168-77	7.8	144
152	Electrospray ionization of porphyrins using a quadrupole ion trap for mass analysis. <i>Analytical Chemistry</i> , 1991 , 63, 1098-1109	7.8	144
151	Electrochemistry Combined Online with Electrospray Mass Spectrometry. <i>Analytical Chemistry</i> , 1995 , 67, 3643-3649	7.8	139
150	Improved imaging resolution in desorption electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 2639-44	2.2	133

149	Liquid microjunction surface sampling probe electrospray mass spectrometry for detection of drugs and metabolites in thin tissue sections. <i>Journal of Mass Spectrometry</i> , 2008 , 43, 500-8	2.2	133
148	Ion isolation and sequential stages of mass spectrometry in a quadrupole ion trap mass spectrometer. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1990 , 96, 117-137		129
147	Using the electrochemistry of the electrospray ion source. <i>Analytical Chemistry</i> , 2007 , 79, 5510-20	7.8	128
146	Thin-layer chromatography/desorption electrospray ionization mass spectrometry: investigation of goldenseal alkaloids. <i>Analytical Chemistry</i> , 2007 , 79, 2778-89	7.8	127
145	Electrochemical processes in a wire-in-a-capillary bulk-loaded, nano-electrospray emitter. <i>Journal of the American Society for Mass Spectrometry</i> , 2001 , 12, 853-62	3.5	117
144	Automated sampling and imaging of analytes separated on thin-layer chromatography plates using desorption electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2006 , 78, 4938-44	7.8	111
143	Electrospray as a Controlled-Current Electrolytic Cell: Electrochemical Ionization of Neutral Analytes for Detection by Electrospray Mass Spectrometry. <i>Analytical Chemistry</i> , 1995 , 67, 3958-3964	7.8	102
142	Charge determination of product ions formed from collision-induced dissociation of multiply protonated molecules via ion/molecule reactions. <i>Analytical Chemistry</i> , 1991 , 63, 1971-8	7.8	95
141	Automation of a surface sampling probe/electrospray mass spectrometry system. <i>Analytical Chemistry</i> , 2005 , 77, 7183-9	7.8	92
140	A Thin-Layer Electrochemical Flow Cell Coupled On-Line with Electrospray-Mass Spectrometry for the Study of Biological Redox Reactions. <i>Electroanalysis</i> , 1999 , 11, 857-865	3	90
139	Liquid microjunction surface sampling coupled with high-pressure liquid chromatography-electrospray ionization-mass spectrometry for analysis of drugs and metabolites in whole-body thin tissue sections. <i>Analytical Chemistry</i> , 2010 , 82, 5917-21	7.8	88
138	Ion spray liquid chromatography/ion trap mass spectrometry determination of biomolecules. <i>Analytical Chemistry</i> , 1991 , 63, 375-383	7.8	86
137	Salt tolerance of desorption electrospray ionization (DESI). <i>Journal of the American Society for Mass Spectrometry</i> , 2007 , 18, 2218-25	3.5	85
136	Electron-Transfer Reactions of fluorofullerene C60F48. <i>Journal of the American Chemical Society</i> , 1994 , 116, 5485-5486	16.4	79
135	Electrolytic deposition of metals on to the high-voltage contact in an electrospray emitter: implications for gas-phase ion formation. <i>Journal of Mass Spectrometry</i> , 2000 , 35, 773-83	2.2	73
134	Electrochemical polymerization of aniline investigated using on-line electrochemistry/electrospray mass spectrometry. <i>Analytical Chemistry</i> , 1999 , 71, 4284-93	7.8	72
133	Application of a liquid extraction based sealing surface sampling probe for mass spectrometric analysis of dried blood spots and mouse whole-body thin tissue sections. <i>Analytical Chemistry</i> , 2009 , 81, 9146-52	7.8	71
132	Continuous-flow liquid microjunction surface sampling probe connected on-line with high-performance liquid chromatography/mass spectrometry for spatially resolved analysis of small molecules and proteins. <i>Rapid Communications in Mass Spectrometry</i> , 2013 , 27, 1329-34	2.2	70

131	Chemical Derivatization for Electrospray Ionization Mass Spectrometry. 2. Aromatic and Highly Conjugated Molecules. <i>Analytical Chemistry</i> , 1994 , 66, 2096-2102	7.8	69
130	Multiple stages of mass spectrometry in a quadrupole ion trap mass spectrometer: prerequisites. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991 , 106, 213-235		68
129	An improved thin-layer chromatography/mass spectrometry coupling using a surface sampling probe electrospray ion trap system. <i>Rapid Communications in Mass Spectrometry</i> , 2004 , 18, 1303-9	2.2	67
128	Electropolymerization of Methylene Blue Investigated Using On-Line Electrochemistry/Electrospray Mass Spectrometry. <i>Electroanalysis</i> , 2001 , 13, 1425-1430	3	66
127	Surface scanning analysis of planar arrays of analytes with desorption electrospray ionization-mass spectrometry. <i>Analytical Chemistry</i> , 2007 , 79, 5956-62	7.8	65
126	Unexpected analyte oxidation during desorption electrospray ionization-mass spectrometry. <i>Analytical Chemistry</i> , 2008 , 80, 1208-14	7.8	64
125	Electrospray mass spectrometry and UV/visible spectrophotometry studies of aluminum(III)flavonoid complexes. <i>Journal of Mass Spectrometry</i> , 1998 , 33, 1080-1087	2.2	63
124	Preforming ions in solution via charge-transfer complexation for analysis by electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 1991 , 63, 2064-2068	7.8	63
123	Self chemical ionization in an ion trap mass spectrometer. <i>Analytical Chemistry</i> , 1988 , 60, 2312-2314	7.8	61
122	High-throughput mode liquid microjunction surface sampling probe. <i>Analytical Chemistry</i> , 2009 , 81, 7096-7101	7.8	60
121	Ion trap mass spectrometry. Using high-pressure ionization. <i>Analytical Chemistry</i> , 1994 , 66, 737A-743A	7.8	59
120	Scanning and surface alignment considerations in chemical imaging with desorption electrospray mass spectrometry. <i>Analytical Chemistry</i> , 2008 , 80, 1027-32	7.8	58
119	Enhancement of CsNO ₃ extraction in 1,2-dichloroethane by tris(2-aminoethyl)amine triamide derivatives via a dual-host strategy. <i>Analytical Chemistry</i> , 2000 , 72, 5258-64	7.8	58
118	HPTLC/DESI-MS imaging of tryptic protein digests separated in two dimensions. <i>Journal of Mass Spectrometry</i> , 2008 , 43, 1627-35	2.2	52
117	Controlling analyte electrochemistry in an electrospray ion source with a three-electrode emitter cell. <i>Analytical Chemistry</i> , 2004 , 76, 1493-9	7.8	52
116	Investigation of the Electrospray Plume by Laser-Induced Fluorescence Spectroscopy. <i>Analytical Chemistry</i> , 1999 , 71, 769-776	7.8	52
115	Quantitative thin-layer chromatography/mass spectrometry analysis of caffeine using a surface sampling probe electrospray ionization tandem mass spectrometry system. <i>Analytical Chemistry</i> , 2005 , 77, 4385-9	7.8	50
114	Computational Simulation of Redox Reactions within a Metal Electrospray Emitter. <i>Analytical Chemistry</i> , 1999 , 71, 5288-96	7.8	50

113	Combining laser ablation/liquid phase collection surface sampling and high-performance liquid chromatography-electrospray ionization-mass spectrometry. <i>Analytical Chemistry</i> , 2011 , 83, 1874-8	7.8	49
112	An open port sampling interface for liquid introduction atmospheric pressure ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2015 , 29, 1749-56	2.2	48
111	Redox buffering in an electrospray ion source using a copper capillary emitter. <i>Journal of Mass Spectrometry</i> , 2001 , 36, 1125-32	2.2	48
110	Self-aspirating atmospheric pressure chemical ionization source for direct sampling of analytes on surfaces and in liquid solutions. <i>Rapid Communications in Mass Spectrometry</i> , 2005 , 19, 2305-12	2.2	46
109	Ion-ion proton transfer reactions of bio-ions involving noncovalent interactions: Holomyoglobin. <i>Journal of the American Society for Mass Spectrometry</i> , 1997 , 8, 637-644	3.5	45
108	Atmospheric pressure chemical ionization and atmospheric pressure photoionization for simultaneous mass spectrometric analysis of microbial respiratory ubiquinones and menaquinones. <i>Journal of Mass Spectrometry</i> , 2004 , 39, 922-9	2.2	45
107	Observation of gas-phase molecular dications formed from neutral organics in solution via the controlled-current electrolytic process inherent to electrospray. <i>Journal of the American Society for Mass Spectrometry</i> , 1996 , 7, 157-62	3.5	44
106	Using HPTLC/DESI-MS for peptide identification in 1D separations of tryptic protein digests. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 317-24	4.4	43
105	Dereplicating and Spatial Mapping of Secondary Metabolites from Fungal Cultures in Situ. <i>Journal of Natural Products</i> , 2015 , 78, 1926-36	4.9	41
104	Analysis of chloroquine and metabolites directly from whole-body animal tissue sections by liquid extraction surface analysis (LESA) and tandem mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2012 , 47, 1420-8	2.2	41
103	Combined atomic force microscope-based topographical imaging and nanometer-scale resolved proximal probe thermal desorption/electrospray ionization-mass spectrometry. <i>ACS Nano</i> , 2011 , 5, 5526-31	16.7	41
102	Insights into analyte electrolysis in an electrospray emitter from chronopotentiometry experiments and mass transport calculations. <i>Journal of the American Society for Mass Spectrometry</i> , 2000 , 11, 951-60	3.5	41
101	Characterization and Application of a Hybrid Optical Microscopy/Laser Ablation Liquid Vortex Capture/Electrospray Ionization System for Mass Spectrometry Imaging with Sub-micrometer Spatial Resolution. <i>Analytical Chemistry</i> , 2015 , 87, 11113-21	7.8	40
100	Minimizing analyte electrolysis in an electrospray emitter. <i>Journal of Mass Spectrometry</i> , 2001 , 36, 204-10	2.2	40
99	Atomic force microscope controlled topographical imaging and proximal probe thermal desorption/ionization mass spectrometry imaging. <i>Analytical Chemistry</i> , 2014 , 86, 1083-90	7.8	39
98	Efficient analyte oxidation in an electrospray ion source using a porous flow-through electrode emitter. <i>Journal of the American Society for Mass Spectrometry</i> , 2004 , 15, 1755-66	3.5	39
97	Derivatization for electrospray ionization-mass spectrometry. 4. Alkenes and alkynes. <i>Rapid Communications in Mass Spectrometry</i> , 2000 , 14, 849-58	2.2	39
96	Chemical Electron-Transfer Reactions in Electrospray Mass Spectrometry: Effective Oxidation Potentials of Electron-Transfer Reagents in Methylene Chloride. <i>Analytical Chemistry</i> , 1994 , 66, 3408-3415	7.8	39

95	Utility of spatially-resolved atmospheric pressure surface sampling and ionization techniques as alternatives to mass spectrometric imaging (MSI) in drug metabolism. <i>Xenobiotica</i> , 2011 , 41, 720-34	2	38
94	Ferrocene-based electroactive derivatizing reagents for the rapid selective screening of alcohols and phenols in natural product mixtures using electrospray-tandem mass spectrometry. <i>Journal of Natural Products</i> , 2000 , 63, 230-7	4.9	37
93	Anion partitioning and ion-pairing behavior of anions in the extraction of cesium salts by 4,5S SBis(tert-octylbenzo)dibenzo-24-crown-8 in 1,2-dichloroethane. <i>Inorganic Chemistry</i> , 2007 , 46, 261-72	5.1	36
92	Surface-assisted reduction of aniline oligomers, N-phenyl-1,4-phenylenediimine and thionin in atmospheric pressure chemical ionization and atmospheric pressure photoionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2002 , 13, 109-17	3.5	36
91	Online, Absolute Quantitation of Propranolol from Spatially Distinct 20- and 40- μ m Dissections of Brain, Liver, and Kidney Thin Tissue Sections by Laser Microdissection-Liquid Vortex Capture-Mass Spectrometry. <i>Analytical Chemistry</i> , 2016 , 88, 6026-34	7.8	35
90	Molecular surface sampling and chemical imaging using proximal probe thermal desorption/secondary ionization mass spectrometry. <i>Analytical Chemistry</i> , 2011 , 83, 598-603	7.8	35
89	Electrochemical Sample Pretreatment Coupled On-Line with ICP-MS: Analysis of Uranium Using an Anodically Conditioned Glassy Carbon Working Electrode. <i>Analytical Chemistry</i> , 1998 , 70, 1141-1148	7.8	34
88	Evaluation of "shotgun" proteomics for identification of biological threat agents in complex environmental matrixes: experimental simulations. <i>Analytical Chemistry</i> , 2005 , 77, 923-32	7.8	34
87	Enhanced study and control of analyte oxidation in electrospray using a thin-channel, planar electrode emitter. <i>Analytical Chemistry</i> , 2002 , 74, 5047-56	7.8	34
86	Combining transmission geometry laser ablation and a noncontact continuous flow surface sampling probe/electrospray emitter for mass spectrometry based chemical imaging. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 3735-40	2.2	33
85	Expanded electrochemical capabilities of the electrospray ion source using porous flow-through electrodes as the upstream ground and emitter high-voltage contact. <i>Analytical Chemistry</i> , 2005 , 77, 8041-9	7.8	33
84	Thin-layer chromatography/electrospray ionization triple-quadrupole linear ion trap mass spectrometry system: analysis of rhodamine dyes separated on reversed-phase C8 plates. <i>Journal of Mass Spectrometry</i> , 2005 , 40, 866-75	2.2	33
83	Electrochemically modulated liquid chromatography coupled on-line with electrospray mass spectrometry. <i>Analytical Chemistry</i> , 2000 , 72, 2641-7	7.8	33
82	Hydrophobic treatment enabling analysis of wettable surfaces using a liquid microjunction surface sampling probe/electrospray ionization-mass spectrometry system. <i>Analytical Chemistry</i> , 2011 , 83, 591-7	7.8	32
81	Geoporphyrin analysis using electrospray ionization-mass spectrometry. <i>Energy & Fuels</i> , 1993 , 7, 411-419	4.1	32
80	Transmission geometry laser ablation into a non-contact liquid vortex capture probe for mass spectrometry imaging. <i>Rapid Communications in Mass Spectrometry</i> , 2014 , 28, 1665-73	2.2	31
79	Laser microdissection and atmospheric pressure chemical ionization mass spectrometry coupled for multimodal imaging. <i>Rapid Communications in Mass Spectrometry</i> , 2013 , 27, 1429-36	2.2	30
78	Automated liquid microjunction surface sampling-HPLC-MS/MS analysis of drugs and metabolites in whole-body thin tissue sections. <i>Bioanalysis</i> , 2013 , 5, 819-26	2.1	30

77	Thin-layer chromatography and mass spectrometry coupled using proximal probe thermal desorption with electrospray or atmospheric pressure chemical ionization. <i>Rapid Communications in Mass Spectrometry</i> , 2010 , 24, 1721-9	2.2	30
76	Electrochemistry/Electrospray-mass spectrometry study of cesium uptake in nickel hexacyanoferrate films. <i>Electrochimica Acta</i> , 2002 , 47, 1035-1042	6.7	30
75	Rapid analysis of isomeric exogenous metabolites by differential mobility spectrometry-mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 3382-6	2.2	29
74	Laser dissection sampling modes for direct mass spectral analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2016 , 30, 611-9	2.2	29
73	Sampling reliability, spatial resolution, spatial precision, and extraction efficiency in droplet-based liquid microjunction surface sampling. <i>Rapid Communications in Mass Spectrometry</i> , 2014 , 28, 1553-60	2.2	28
72	Electrolytic corrosion of a stainless-steel electrospray emitter monitored using an electrospray/photodiode array system. <i>Journal of Analytical Atomic Spectrometry</i> , 1998 , 13, 603-607	3.7	28
71	Evaluation of a surface-sampling probe electrospray mass spectrometry system for the analysis of surface-deposited and affinity-captured proteins. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 1144-52	2.2	28
70	Co-registered Topographical, Band Excitation Nanomechanical, and Mass Spectral Imaging Using a Combined Atomic Force Microscopy/Mass Spectrometry Platform. <i>ACS Nano</i> , 2015 , 9, 4260-9	16.7	27
69	Liquid microjunction surface sampling probe fluid dynamics: computational and experimental analysis of coaxial intercapillary positioning effects on sample manipulation. <i>Journal of the American Society for Mass Spectrometry</i> , 2011 , 22, 1157-66	3.5	27
68	Direct sampling and analysis from solid-phase extraction cards using an automated liquid extraction surface analysis nanoelectrospray mass spectrometry system. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 2389-96	2.2	27
67	Electrochemical sample pretreatment coupled on-line with electrospray mass spectrometry for enhanced elemental analysis. <i>Rapid Communications in Mass Spectrometry</i> , 1998 , 12, 1644-1652	2.2	27
66	Study and application of a controlled-potential electrochemistry-electrospray emitter for electrospray mass spectrometry. <i>Analytical Chemistry</i> , 2005 , 77, 4366-73	7.8	27
65	An overview of some recent developments in ionization methods for mass spectrometry. <i>European Journal of Mass Spectrometry</i> , 2003 , 9, 539-62	1.1	27
64	Electrospray tandem mass spectrometric study of ferrocene carbamate ester derivatives of saturated primary, secondary and tertiary alcohols. <i>Journal of Mass Spectrometry</i> , 2001 , 36, 179-87	2.2	27
63	An enhanced droplet-based liquid microjunction surface sampling system coupled with HPLC-ESI-MS/MS for spatially resolved analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 2117-25	4.4	26
62	Electrochemically initiated tagging of thiols using an electrospray ionization based liquid microjunction surface sampling probe two-electrode cell. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 1380-6	2.2	25
61	Atmospheric pressure surface sampling/ionization techniques for direct coupling of planar separations with mass spectrometry. <i>Journal of Chromatography A</i> , 2010 , 1217, 3955-65	4.5	25
60	Electrochemically modulated preconcentration and matrix elimination for organic analytes coupled on-line with electrospray mass spectrometry. <i>Analytical Chemistry</i> , 2000 , 72, 2066-74	7.8	25

59	Anodic stripping voltammetry coupled on-line with inductively coupled plasma mass spectrometry: optimization of a thin-layer flow cell system for analyte signal enhancement. <i>Analytical Chemistry</i> , 1997 , 69, 3544-51	7.8	24
58	A Mass Spectrometry and Optical Spectroscopy Investigation of Gas-phase Ion Formation in Electrospray. <i>Rapid Communications in Mass Spectrometry</i> , 1996 , 10, 299-304	2.2	24
57	Profiling of adrenocorticotrophic hormone and arginine vasopressin in human pituitary gland and tumor thin tissue sections using droplet-based liquid-microjunction surface-sampling-HPLC-ESI-MS-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 5989-98	4.4	23
56	Improved desorption electrospray ionization mass spectrometry performance using edge sampling and a rotational sample stage. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 3846-50	2.2	23
55	Mechanism of porphyrin reduction and decomposition in a high-pressure chemical ionization plasma. <i>Journal of the American Chemical Society</i> , 1989 , 111, 6027-6035	16.4	23
54	Topographical and Chemical Imaging of a Phase Separated Polymer Using a Combined Atomic Force Microscopy/Infrared Spectroscopy/Mass Spectrometry Platform. <i>Analytical Chemistry</i> , 2016 , 88, 2864-70	7.8	23
53	Rapid sample classification using an open port sampling interface coupled with liquid introduction atmospheric pressure ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2017 , 31, 281-291	2.2	21
52	Performance evaluation of the Scent Transfer Unit (STU-100) for organic compound collection and release. <i>Journal of Forensic Sciences</i> , 2006 , 51, 780-9	1.8	21
51	Extraction efficiency and implications for absolute quantitation of propranolol in mouse brain, liver and kidney tissue sections using droplet-based liquid microjunction surface sampling high-performance liquid chromatography/electrospray ionization tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016 , 30, 1705-1712	2.2	21
50	Electrospray tandem mass spectrometric study of alkyl 1-methylpyridinium ether derivatives of alcohols. <i>Journal of Mass Spectrometry</i> , 2001 , 36, 1294-300	2.2	20
49	The Henryville Bed of the New Albany shaleII Preliminary characterization of the nickel and vanadyl porphyrins in the bitumen. <i>Organic Geochemistry</i> , 1989 , 14, 119-128	3.1	20
48	The Henryville bed of the New Albany shaleIII: Tandem mass spectrometric analyses of geoporphyrins from the bitumen and kerogen. <i>Organic Geochemistry</i> , 1991 , 17, 93-105	3.1	19
47	Fully automated laser ablation liquid capture surface analysis using nanoelectrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2014 , 28, 1312-20	2.2	18
46	Laser ablation sampling of materials directly into the formed liquid microjunction of a continuous flow surface sampling probe/electrospray ionization emitter for mass spectral analysis and imaging. <i>Analytical Chemistry</i> , 2013 , 85, 10211-7	7.8	18
45	Direct analysis of reversed-phase high-performance thin layer chromatography separated tryptic protein digests using a liquid microjunction surface sampling probe/electrospray ionization mass spectrometry system. <i>European Journal of Mass Spectrometry</i> , 2010 , 16, 21-33	1.1	18
44	Rotation planar chromatography coupled on-line with atmospheric pressure chemical ionization mass spectrometry. <i>Analytical Chemistry</i> , 2004 , 76, 479-82	7.8	18
43	Monitoring ionic adducts to elucidate reaction mechanisms: reduction of tetracyanoquinodimethane and oxidation of triphenylamine investigated using on-line electrochemistry/electrospray mass spectrometry. <i>Journal of Solid State Electrochemistry</i> , 2005 , 9, 390-397	2.6	18
42	Minimizing analyte electrolysis in electrospray ionization mass spectrometry using a redox buffer coated emitter electrode. <i>Rapid Communications in Mass Spectrometry</i> , 2010 , 24, 1327-34	2.2	17

41	Controlled-resonant surface tapping-mode scanning probe electrospray ionization mass spectrometry imaging. <i>Analytical Chemistry</i> , 2014 , 86, 3146-52	7.8	16
40	Liquid microjunction surface sampling of acetaminophen, terfenadine and their metabolites in thin tissue sections. <i>Bioanalysis</i> , 2014 , 6, 2599-606	2.1	16
39	Expanded use of a battery-powered two-electrode emitter cell for electrospray mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2006 , 17, 953-961	3.5	16
38	Characterization of chlorins within a natural chlorin mixture using electrospray/ion trap mass spectrometry. <i>Organic Mass Spectrometry</i> , 1994 , 29, 672-678		16
37	Xylan hydrolysis in <i>Populus trichocarpa</i> L. <i>deltoides</i> and model substrates during hydrothermal pretreatment. <i>Bioresource Technology</i> , 2015 , 179, 202-210	11	15
36	Evaluation of flow-injection tandem mass spectrometry for rapid and high-throughput quantitative determination of B vitamins in nutritional supplements. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 8356-62	5.7	15
35	Porphyrin pyrrole sequencing: low-energy collision-induced dissociation of (M + 7H) ⁺ generated in-situ during ammonia chemical ionization. <i>Analytical Chemistry</i> , 1990 , 62, 786-793	7.8	15
34	Liquid microjunction surface sampling probe fluid dynamics: characterization and application of an analyte plug formation operational mode. <i>Journal of the American Society for Mass Spectrometry</i> , 2011 , 22, 1737-43	3.5	14
33	Observation of gas-phase molecular dications formed from neutral organics in solution via chemical electron-transfer reactions by using electrospray ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1994 , 5, 689-92	3.5	14
32	Quantitation of repaglinide and metabolites in mouse whole-body thin tissue sections using droplet-based liquid microjunction surface sampling-high-performance liquid chromatography-electrospray ionization tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2016 , 1439, 137-143	4.5	13
31	Combined Falling Drop/Open Port Sampling Interface System for Automated Flow Injection Mass Spectrometry. <i>Analytical Chemistry</i> , 2017 , 89, 12578-12586	7.8	13
30	Immediate drop on demand technology (I-DOT) coupled with mass spectrometry via an open port sampling interface. <i>Bioanalysis</i> , 2017 , 9, 1667-1679	2.1	13
29	Control of analyte electrolysis in electrospray ionization mass spectrometry using repetitively pulsed high voltage. <i>International Journal of Mass Spectrometry</i> , 2011 , 303, 206-211	1.9	12
28	Quantitation of cotinine in nonsmoker saliva using chip-based nanoelectrospray tandem mass spectrometry. <i>Journal of Analytical Toxicology</i> , 2006 , 30, 178-86	2.9	12
27	Electrochemically modulated separation, concentration, and detection of plutonium using an anodized glassy carbon electrode and inductively coupled plasma mass spectrometry. <i>Analytical Chemistry</i> , 2006 , 78, 8535-42	7.8	11
26	The Henryville bed of the New Albany shaleII. Comparison of the nickel and vanadyl porphyrins in the bitumen with those generated from the kerogen during simulated catagenesis. <i>Organic Geochemistry</i> , 1989 , 14, 129-144	3.1	11
25	Operational Modes and Speed Considerations of an Acoustic Droplet Dispenser for Mass Spectrometry. <i>Analytical Chemistry</i> , 2020 , 92, 15818-15826	7.8	11
24	High-performance thin-layer chromatography plate blotting for liquid microjunction surface sampling probe mass spectrometric analysis of analytes separated on a wettable phase plate. <i>Rapid Communications in Mass Spectrometry</i> , 2012 , 26, 37-42	2.2	10

23	Utilizing the inherent electrolysis in a chip-based nanoelectrospray emitter system to facilitate selective ionization and mass spectrometric analysis of metallo alkylporphyrins. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 403, 335-43	4.4	10
22	Improved spatial resolution for spot sampling in thermal desorption atomic force microscopy - mass spectrometry via rapid heating functions. <i>Nanoscale</i> , 2017 , 9, 5708-5717	7.7	9
21	Solvent effects on differentiation of mouse brain tissue using laser microdissection cut and dropS sampling with direct mass spectral analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2018 , 32, 414-422	7.2	9
20	Gas chromatography-tandem mass spectrometry implemented on a bench-top quadrupole ion trap-based instrument using random noise to effect collision-induced dissociation. <i>Analytica Chimica Acta</i> , 1993 , 277, 41-54	6.6	9
19	Comparison of Internal Energy Distributions of Ions Created by Electrospray Ionization and Laser Ablation-Liquid Vortex Capture/Electrospray Ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2015 , 26, 1462-8	3.5	8
18	Rapid quantitation of ascorbic and folic acids in SRM 3280 multivitamin/multielement tablets using flow-injection tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013 , 27, 163-8	2.2	8
17	Comparison of electron ionization and fast atom bombardment-mass spectrometry for the determination of nickel, vanadyl and free-base porphyrins. <i>Organic Geochemistry</i> , 1989 , 14, 193-202	3.1	8
16	Spatial profiling of stapled helical peptide ATSP-7041 in mouse whole-body thin tissue sections using droplet-based liquid microjunction surface sampling-HPLC-ESI/MS. <i>International Journal of Mass Spectrometry</i> , 2019 , 437, 17-22	1.9	8
15	Atomic Force Microscopy Thermally-Assisted Microsampling with Atmospheric Pressure Temperature Ramped Thermal Desorption/Ionization-Mass Spectrometry Analysis. <i>Analytical Chemistry</i> , 2017 , 89, 3036-3042	7.8	7
14	Poly(3,4-ethylenedioxyppyrole)-modified emitter electrode for substitution of homogeneous redox buffer agent hydroquinone in electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2010 , 24, 3368-71	2.2	7
13	Comparison of sustained off-resonance irradiation collisionally activated dissociation and multipole storage-assisted dissociation for top-down protein analysis. <i>Journal of Mass Spectrometry</i> , 2004 , 39, 402-11	2.1	7
12	High-pressure ammonia chemical ionization mass spectrometry and mass spectrometry/mass spectrometry for porphyrin structure determination. <i>Energy & Fuels</i> , 1990 , 4, 720-729	4.1	7
11	Quantitative metrics for assessment of chemical image quality and spatial resolution. <i>Rapid Communications in Mass Spectrometry</i> , 2016 , 30, 927-32	2.2	6
10	Chemical imaging with desorption electrospray ionization mass spectrometry. <i>Methods in Molecular Biology</i> , 2010 , 656, 231-41	1.4	4
9	Fluid Dynamics of the Open Port Interface for High-Speed Nanoliter Volume Sampling Mass Spectrometry. <i>Analytical Chemistry</i> , 2021 , 93, 8559-8567	7.8	4
8	Electrochemistry of the Electrospray Ion Source 2012 , 75-122		3
7	Selective Detection of Derivatized Alcohols and Phenols in Essential Oils by Electrospray-Tandem Mass Spectrometry. <i>Journal of Essential Oil Research</i> , 2001 , 13, 324-331	2.3	3
6	Polymeric spatial resolution test patterns for mass spectrometry imaging using nano-thermal analysis with atomic force microscopy. <i>Rapid Communications in Mass Spectrometry</i> , 2017 , 31, 1204-1210	2.2	2

5	Tabulation of exact masses and comparison of isotope patterns expected for geoporphyrin molecular ions in electron ionization mass spectra. <i>Applied Geochemistry</i> , 1991 , 6, 105-117	3.5	2
4	Submicron Spatial Resolution in Thermal Desorption Mass Spectrometry via Rapid Heating Functions using Thermal AFM Probes. <i>Microscopy and Microanalysis</i> , 2016 , 22, 368-369	0.5	1
3	Multimodal Chemical and Physical Surface Characterization on a Combined AFM-MS Platform.. <i>Microscopy and Microanalysis</i> , 2014 , 20, 2078-2079	0.5	
2	Modern Atmospheric Pressure Surface Sampling/Ionization Techniques in Mass Spectrometry 2010 , 1544-1555		
1	Modern Atmospheric Pressure Surface Sampling/Ionization Techniques in Mass Spectrometry 2017 , 819-829		