

Gary J Van Berkel

List of Publications by Year in descending order

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170
papers

9,764
citations

31902

53
h-index

43802

91
g-index

171
all docs

171
docs citations

171
times ranked

4911
citing authors

#	ARTICLE	IF	CITATIONS
1	Fully automated liquid extraction-based surface sampling and ionization using a chip-based robotic nanoelectrospray platform. <i>Journal of Mass Spectrometry</i> , 2010, 45, 252-260.	0.7	308
2	Electrochemical origin of radical cations observed in electrospray ionization mass spectra. <i>Analytical Chemistry</i> , 1992, 64, 1586-1593.	3.2	291
3	Established and emerging atmospheric pressure surface sampling/ionization techniques for mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2008, 43, 1161-1180.	0.7	286
4	Electrochemical processes in electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2000, 35, 939-952.	0.7	275
5	Electrospray ionization combined with ion trap mass spectrometry. <i>Analytical Chemistry</i> , 1990, 62, 1284-1295.	3.2	260
6	Thin-Layer Chromatography and Mass Spectrometry Coupled Using Desorption Electrospray Ionization. <i>Analytical Chemistry</i> , 2005, 77, 1207-1215.	3.2	244
7	Urea-Functionalized M ₄ L ₆ Cage Receptors: Anion-Templated Self-Assembly and Selective Guest Exchange in Aqueous Solutions. <i>Journal of the American Chemical Society</i> , 2012, 134, 8525-8534.	6.6	217
8	Thin-Layer Chromatography and Electrospray Mass Spectrometry Coupled Using a Surface Sampling Probe. <i>Analytical Chemistry</i> , 2002, 74, 6216-6223.	3.2	197
9	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.	1.9	184
10	Characterization of an Electrospray Ion Source as a Controlled-Current Electrolytic Cell. <i>Analytical Chemistry</i> , 1995, 67, 2916-2923.	3.2	180
11	Reactions of dimethylamine with multiply charged ions of cytochrome c. <i>Journal of the American Chemical Society</i> , 1990, 112, 5668-5670.	6.6	175
12	Electrospray ionization of porphyrins using a quadrupole ion trap for mass analysis. <i>Analytical Chemistry</i> , 1991, 63, 1098-1109.	3.2	167
13	Derivatization for Electrospray Ionization Mass Spectrometry. 3. Electrochemically Ionizable Derivatives. <i>Analytical Chemistry</i> , 1998, 70, 1544-1554.	3.2	164
14	Chemical Derivatization for Electrospray Ionization Mass Spectrometry. 1. Alkyl Halides, Alcohols, Phenols, Thiols, and Amines. <i>Analytical Chemistry</i> , 1994, 66, 1302-1315.	3.2	163
15	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, 5168-5177.	3.2	159
16	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.	1.9	151
17	Using the Electrochemistry of the Electrospray Ion Source. <i>Analytical Chemistry</i> , 2007, 79, 5510-5520.	3.2	150
18	Electrochemistry Combined Online with Electrospray Mass Spectrometry. <i>Analytical Chemistry</i> , 1995, 67, 3643-3649.	3.2	149

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19	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, 500-508.	0.7	147
20	Improved imaging resolution in desorption electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 2639-2644.	0.7	140
21	Thin-Layer Chromatography/Desorption Electrospray Ionization Mass Spectrometry: An Investigation of Goldenseal Alkaloids. <i>Analytical Chemistry</i> , 2007, 79, 2778-2789.	3.2	139
22	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, 853-862.	1.2	128
23	Automated Sampling and Imaging of Analytes Separated on Thin-Layer Chromatography Plates Using Desorption Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2006, 78, 4938-4944.	3.2	123
24	Ion spray liquid chromatography/ion trap mass spectrometry determination of biomolecules. <i>Analytical Chemistry</i> , 1991, 63, 375-383.	3.2	115
25	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.	3.2	111
26	Charge determination of product ions formed from collision-induced dissociation of multiply protonated molecules via ion/molecule reactions. <i>Analytical Chemistry</i> , 1991, 63, 1971-1978.	3.2	108
27	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.	1.5	104
28	Automation of a Surface Sampling Probe/Electrospray Mass Spectrometry System. <i>Analytical Chemistry</i> , 2005, 77, 7183-7189.	3.2	103
29	Electron-Transfer Reactions of fluorofullerene C ₆₀ F ₄₈ . <i>Journal of the American Chemical Society</i> , 1994, 116, 5485-5486.	6.6	100
30	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, 5917-5921.	3.2	96
31	Salt tolerance of desorption electrospray ionization (DESI). <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 2218-2225.	1.2	93
32	Chemical Derivatization for Electrospray Ionization Mass Spectrometry. 2. Aromatic and Highly Conjugated Molecules. <i>Analytical Chemistry</i> , 1994, 66, 2096-2102.	3.2	86
33	Electrochemical Polymerization of Aniline Investigated Using On-Line Electrochemistry/Electrospray Mass Spectrometry. <i>Analytical Chemistry</i> , 1999, 71, 4284-4293.	3.2	84
34	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, 773-783.	0.7	83
35	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, 9146-9152.	3.2	82
36	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.	1.9	78

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37	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, 1329-1334.	0.7	77
38	Preforming ions in solution via charge-transfer complexation for analysis by electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 1991, 63, 2064-2068.	3.2	73
39	Electropolymerization of Methylene Blue Investigated Using On-Line Electrochemistry/Electrospray Mass Spectrometry. <i>Electroanalysis</i> , 2001, 13, 1425-1430.	1.5	73
40	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, 1303-1309.	0.7	71
41	Surface Scanning Analysis of Planar Arrays of Analytes with Desorption Electrospray Ionization-Mass Spectrometry. <i>Analytical Chemistry</i> , 2007, 79, 5956-5962.	3.2	71
42	High-Throughput Mode Liquid Microjunction Surface Sampling Probe. <i>Analytical Chemistry</i> , 2009, 81, 7096-7101.	3.2	71
43	An open port sampling interface for liquid introduction atmospheric pressure ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1749-1756.	0.7	70
44	Unexpected Analyte Oxidation during Desorption Electrospray Ionization-Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 1208-1214.	3.2	69
45	Electrospray mass spectrometry and UV/visible spectrophotometry studies of aluminum(III)-flavonoid complexes. <i>Journal of Mass Spectrometry</i> , 1998, 33, 1080-1087.	0.7	65
46	Self chemical ionization in an ion trap mass spectrometer. <i>Analytical Chemistry</i> , 1988, 60, 2312-2314.	3.2	64
47	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, 5258-5264.	3.2	64
48	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, 922-929.	0.7	64
49	Ion trap mass spectrometry using high-pressure ionization. <i>Analytical Chemistry</i> , 1994, 66, 737A-743A.	3.2	63
50	Scanning and Surface Alignment Considerations in Chemical Imaging with Desorption Electrospray Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 1027-1032.	3.2	61
51	Investigation of the Electrospray Plume by Laser-Induced Fluorescence Spectroscopy. <i>Analytical Chemistry</i> , 1999, 71, 769-776.	3.2	60
52	HPTLC/DESI-MS imaging of tryptic protein digests separated in two dimensions. <i>Journal of Mass Spectrometry</i> , 2008, 43, 1627-1635.	0.7	59
53	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, 4385-4389.	3.2	57
54	Computational Simulation of Redox Reactions within a Metal Electrospray Emitter. <i>Analytical Chemistry</i> , 1999, 71, 5288-5296.	3.2	54

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55	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.	1.2	53
56	Controlling Analyte Electrochemistry in an Electrospray Ion Source with a Three-Electrode Emitter Cell. <i>Analytical Chemistry</i> , 2004, 76, 1493-1499.	3.2	53
57	Redox buffering in an electrospray ion source using a copper capillary emitter. <i>Journal of Mass Spectrometry</i> , 2001, 36, 1125-1132.	0.7	52
58	Combining Laser Ablation/Liquid Phase Collection Surface Sampling and High-Performance Liquid Chromatography with Electrospray Ionization-Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 1874-1878.	3.2	52
59	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, 2305-2312.	0.7	51
60	Using HPTLC/DESI-MS for peptide identification in 1D separations of tryptic protein digests. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 317-324.	1.9	50
61	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, 157-162.	1.2	49
62	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.	3.2	47
63	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, 951-960.	1.2	47
64	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, 5526-5531.	7.3	47
65	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, 1420-1428.	0.7	46
66	Dereplicating and Spatial Mapping of Secondary Metabolites from Fungal Cultures <i>in Situ</i> . <i>Journal of Natural Products</i> , 2015, 78, 1926-1936.	1.5	46
67	Derivatization for electrospray ionization-mass spectrometry. 4. Alkenes and alkynes. , 2000, 14, 849-858.		45
68	Minimizing analyte electrolysis in an electrospray emitter. <i>Journal of Mass Spectrometry</i> , 2001, 36, 204-210.	0.7	44
69	Atomic Force Microscope Controlled Topographical Imaging and Proximal Probe Thermal Desorption/Ionization Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2014, 86, 1083-1090.	3.2	44
70	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, 11113-11121.	3.2	44
71	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.	3.2	41
72	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, 109-117.	1.2	41

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73	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, 1755-1766.	1.2	41
74	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, 6026-6034.	3.2	41
75	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, 230-237.	1.5	40
76	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, 866-875.	0.7	40
77	Evaluation of δ -Shotgun-Proteomics for Identification of Biological Threat Agents in Complex Environmental Matrixes: A Experimental Simulations. <i>Analytical Chemistry</i> , 2005, 77, 923-932.	3.2	39
78	Anion Partitioning and Ion-Pairing Behavior of Anions in the Extraction of Cesium Salts by 4,5-Bis(tert-octylbenzo)dibenzo-24-crown-8 in 1,2-Dichloroethane. <i>Inorganic Chemistry</i> , 2007, 46, 261-272.	1.9	39
79	Electrochemistry-electrospray-mass spectrometry study of cesium uptake in nickel hexacyanoferrate films. <i>Electrochimica Acta</i> , 2002, 47, 1035-1042.	2.6	38
80	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, 720-734.	0.5	38
81	Electrochemically Modulated Liquid Chromatography Coupled On-Line with Electrospray Mass Spectrometry. <i>Analytical Chemistry</i> , 2000, 72, 2641-2647.	3.2	36
82	Molecular Surface Sampling and Chemical Imaging using Proximal Probe Thermal Desorption/Secondary Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 598-603.	3.2	36
83	Combining transmission geometry laser ablation and a non-contact continuous flow surface sampling probe/electrospray emitter for mass spectrometry based chemical imaging. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 3735-3740.	0.7	36
84	Geoporphyrin analysis using electrospray ionization-mass spectrometry. <i>Energy & Fuels</i> , 1993, 7, 411-419.	2.5	35
85	Enhanced Study and Control of Analyte Oxidation in Electrospray Using a Thin-Channel, Planar Electrode Emitter. <i>Analytical Chemistry</i> , 2002, 74, 5047-5056.	3.2	35
86	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, 1665-1673.	0.7	35
87	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, 8041-8049.	3.2	34
88	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, 1721-1729.	0.7	34
89	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, 591-597.	3.2	34
90	Automated liquid microjunction surface sampling-HPLC-MS/MS analysis of drugs and metabolites in whole-body thin tissue sections. <i>Bioanalysis</i> , 2013, 5, 819-826.	0.6	34

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91	Laser dissection sampling modes for direct mass spectral analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 611-619.	0.7	34
92	Laser microdissection and atmospheric pressure chemical ionization mass spectrometry coupled for multimodal imaging. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 1429-1436.	0.7	33
93	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.	1.2	32
94	Rapid analysis of isomeric exogenous metabolites by differential mobility spectrometry " mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 3382-3386.	0.7	32
95	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.	0.7	32
96	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.	0.7	31
97	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.	1.6	31
98	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, 179-187.	0.7	31
99	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, 4260-4269.	7.3	31
100	Atmospheric pressure surface sampling/ionization techniques for direct coupling of planar separations with mass spectrometry. <i>Journal of Chromatography A</i> , 2010, 1217, 3955-3965.	1.8	30
101	An Overview of Some Recent Developments in Ionization Methods for Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2003, 9, 539-562.	0.5	29
102	Study and Application of a Controlled-Potential Electrochemistry "Electrospray Emitter for Electrospray Mass Spectrometry. <i>Analytical Chemistry</i> , 2005, 77, 4366-4373.	3.2	29
103	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, 1144-1152.	0.7	29
104	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, 1553-1560.	0.7	29
105	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, 2117-2125.	1.9	29
106	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.	6.6	28
107	Performance Evaluation of the Scent Transfer Unit (STU-100) for Organic Compound Collection and Release. <i>Journal of Forensic Sciences</i> , 2006, 51, 780-789.	0.9	28
108	Operational Modes and Speed Considerations of an Acoustic Droplet Dispenser for Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 15818-15826.	3.2	28

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109	Electrochemically Modulated Preconcentration and Matrix Elimination for Organic Analytes Coupled On-Line with Electrospray Mass Spectrometry. <i>Analytical Chemistry</i> , 2000, 72, 2066-2074.	3.2	27
110	Improved desorption electrospray ionization mass spectrometry performance using edge sampling and a rotational sample stage. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 3846-3850.	0.7	27
111	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, 2389-2396.	0.7	27
112	The Henryville bed of the New Albany shale—III: Tandem mass spectrometric analyses of geoporphyrins from the bitumen and kerogen. <i>Organic Geochemistry</i> , 1991, 17, 93-105.	0.9	26
113	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.	0.7	26
114	Rotation Planar Chromatography Coupled On-Line with Atmospheric Pressure Chemical Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2004, 76, 479-482.	3.2	26
115	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, 1380-1386.	0.7	26
116	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, 2864-2870.	3.2	26
117	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, 3544-3551.	3.2	24
118	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, 5989-5998.	1.9	24
119	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. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 1705-1712.	0.7	24
120	The Henryville Bed of the New Albany shale—I. Preliminary characterization of the nickel and vanadyl porphyrins in the bitumen. <i>Organic Geochemistry</i> , 1989, 14, 119-128.	0.9	22
121	Electrospray tandem mass spectrometric study of alkyl 1-methylpyridinium ether derivatives of alcohols. <i>Journal of Mass Spectrometry</i> , 2001, 36, 1294-1300.	0.7	22
122	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, 10211-10217.	3.2	21
123	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.	1.2	20
124	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.	0.5	20
125	Immediate drop on demand technology (I-DOT) coupled with mass spectrometry via an open port sampling interface. <i>Bioanalysis</i> , 2017, 9, 1667-1679.	0.6	20
126	Fully automated laser ablation liquid capture surface analysis using nanoelectrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 1312-1320.	0.7	19

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127	Fluid Dynamics of the Open Port Interface for High-Speed Nanoliter Volume Sampling Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 8559-8567.	3.2	19
128	Porphyrim 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.	3.2	18
129	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, 689-692.	1.2	18
130	Minimizing analyte electrolysis in electrospray ionization mass spectrometry using a redox buffer coated emitter electrode. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 1327-1334.	0.7	18
131	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.	1.2	17
132	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.	1.2	17
133	Controlled-Resonant Surface Tapping-Mode Scanning Probe Electrospray Ionization Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2014, 86, 3146-3152.	3.2	17
134	Combined Falling Drop/Open Port Sampling Interface System for Automated Flow Injection Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 12578-12586.	3.2	17
135	Characterization of chlorins within a natural chlorin mixture using electrospray/ion trap mass spectrometry. <i>Organic Mass Spectrometry</i> , 1994, 29, 672-678.	1.3	16
136	Liquid microjunction surface sampling of acetaminophen, terfenadine and their metabolites in thin tissue sections. <i>Bioanalysis</i> , 2014, 6, 2599-2606.	0.6	16
137	Xylan hydrolysis in <i>Populus trichocarpa</i> — <i>P. deltoides</i> and model substrates during hydrothermal pretreatment. <i>Bioresource Technology</i> , 2015, 179, 202-210.	4.8	16
138	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.	1.8	16
139	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, 8356-8362.	2.4	15
140	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, 8535-8542.	3.2	14
141	Quantitation of Cotinine in Nonsmoker Saliva Using Chip-Based Nanoelectrospray Tandem Mass Spectrometry. <i>Journal of Analytical Toxicology</i> , 2006, 30, 178-186.	1.7	13
142	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.	0.7	13
143	The Henryville bed of the New Albany shale—II. 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.	0.9	12
144	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.	0.7	12

#	ARTICLE	IF	CITATIONS
145	Spatial profiling of stapled α -helical peptide ATSP-7041 in mouse whole-body thin tissue sections using droplet-based liquid microjunction surface sampling-HPLC-ESI-MS/MS. <i>International Journal of Mass Spectrometry</i> , 2019, 437, 17-22.	0.7	12
146	An Open Port Sampling Interface for the Chemical Characterization of Levitated Microparticles. <i>Analytical Chemistry</i> , 2022, 94, 3441-3445.	3.2	12
147	Solvent effects on differentiation of mouse brain tissue using laser microdissection \sim cut and drop TM sampling with direct mass spectral analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 414-422.	0.7	11
148	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.	0.9	10
149	Focus issue on electrochemistry combined with mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 1691-1692.	1.2	10
150	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, 335-343.	1.9	10
151	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.	2.6	9
152	Improved spatial resolution for spot sampling in thermal desorption atomic force microscopy \sim mass spectrometry via rapid heating functions. <i>Nanoscale</i> , 2017, 9, 5708-5717.	2.8	9
153	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, 402-411.	0.7	8
154	Rapid quantitation of ascorbic and folic acids in SRM 3280 multivitamin/multielement tablets using flow \sim injection tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 163-168.	0.7	8
155	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, 1462-1468.	1.2	8
156	High-pressure ammonia chemical ionization mass spectrometry and mass spectrometry/mass spectrometry for porphyrin structure determination. <i>Energy & Fuels</i> , 1990, 4, 720-729.	2.5	7
157	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.	1.3	7
158	Poly(3,4 \sim ethylenedioxyppyrrrole) \sim 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, 3368-3371.	0.7	7
159	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.	3.2	7
160	Quantitative metrics for assessment of chemical image quality and spatial resolution. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 927-932.	0.7	6
161	Chemical Imaging with Desorption Electrospray Ionization Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2010, 656, 231-241.	0.4	5
162	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.	1.4	4

#	ARTICLE	IF	CITATIONS
163	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.	0.7	2
164	Editorial - ACS Symposium on Porphyrin Geochemistry - The Quest for Analytical Reliability. <i>Energy & Fuels</i> , 1990, 4, 627-627.	2.5	1
165	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.	0.2	1
166	Electrochemical processes in electrospray ionization mass spectrometry. , 0, .		1
167	Electrochemical processes in electrospray ionization mass spectrometry. , 2000, 35, 939.		1
168	Modern Atmospheric Pressure Surface Sampling/Ionization Techniques in Mass Spectrometry. , 2010, , 1544-1555.		0
169	Multimodal Chemical and Physical Surface Characterization on a Combined AFM-MS Platform.. <i>Microscopy and Microanalysis</i> , 2014, 20, 2078-2079.	0.2	0
170	Modern Atmospheric Pressure Surface Sampling/Ionization Techniques in Mass Spectrometry. , 2017, , 819-829.		0