

R Graham Cooks

List of Publications by Citations

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1,093
papers

58,736
citations

113
h-index

186
g-index

1,134
ext. papers

62,362
ext. citations

6.7
avg, IF

7.86
L-index

#	Paper	IF	Citations
1093	Mass spectrometry sampling under ambient conditions with desorption electrospray ionization. <i>Science</i> , 2004 , 306, 471-3	33.3	2550
1092	Detection Technologies. Ambient mass spectrometry. <i>Science</i> , 2006 , 311, 1566-70	33.3	1151
1091	The Orbitrap: a new mass spectrometer. <i>Journal of Mass Spectrometry</i> , 2005 , 40, 430-43	2.2	982
1090	Ambient mass spectrometry using desorption electrospray ionization (DESI): instrumentation, mechanisms and applications in forensics, chemistry, and biology. <i>Journal of Mass Spectrometry</i> , 2005 , 40, 1261-75	2.2	691
1089	Low-temperature plasma probe for ambient desorption ionization. <i>Analytical Chemistry</i> , 2008 , 80, 9097-1004	10.4	580
1088	Development, characterization, and application of paper spray ionization. <i>Analytical Chemistry</i> , 2010 , 82, 2463-71	7.8	535
1087	Paper spray for direct analysis of complex mixtures using mass spectrometry. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 877-80	16.4	532
1086	Ambient desorption ionization mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2008 , 27, 284-290	10.6	460
1085	Tissue imaging at atmospheric pressure using desorption electrospray ionization (DESI) mass spectrometry. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 7188-92	16.4	459
1084	Thermochemical determinations by the kinetic method. <i>Mass Spectrometry Reviews</i> , 1994 , 13, 287-339	11	459
1083	Instrumentation, applications, and energy deposition in quadrupole ion-trap tandem mass spectrometry. <i>Analytical Chemistry</i> , 1987 , 59, 1677-1685	7.8	419
1082	Extractive electrospray ionization for direct analysis of undiluted urine, milk and other complex mixtures without sample preparation. <i>Chemical Communications</i> , 2006 , 2042-4	5.8	394
1081	Proton affinities from dissociations of proton-bound dimers. <i>Journal of the American Chemical Society</i> , 1981 , 103, 1313-1317	16.4	375
1080	Desorption electrospray ionization mass spectrometry: Imaging drugs and metabolites in tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 18120-5	11.5	366
1079	Direct, trace level detection of explosives on ambient surfaces by desorption electrospray ionization mass spectrometry. <i>Chemical Communications</i> , 2005 , 1950-2	5.8	351
1078	Orbitrap mass spectrometry: instrumentation, ion motion and applications. <i>Mass Spectrometry Reviews</i> , 2008 , 27, 661-99	11	342
1077	Mass spectrometry imaging under ambient conditions. <i>Mass Spectrometry Reviews</i> , 2013 , 32, 218-43	11	335

1076	Latent fingerprint chemical imaging by mass spectrometry. <i>Science</i> , 2008 , 321, 805	33.3	318
1075	Majority Rules in the Copolymerization of Mirror Image Isomers. <i>Journal of the American Chemical Society</i> , 1995 , 117, 4181-4182	16.4	318
1074	Desorption electrospray ionization and other ambient ionization methods: current progress and preview. <i>Analyst, The</i> , 2010 , 135, 669-81	5	315
1073	Desorption electrospray ionization of explosives on surfaces: sensitivity and selectivity enhancement by reactive desorption electrospray ionization. <i>Analytical Chemistry</i> , 2005 , 77, 6755-64	7.8	305
1072	Intrinsic basicity determination using metastable ions. <i>Journal of the American Chemical Society</i> , 1977 , 99, 1279-1281	16.4	301
1071	Kinetic Method of Making Thermochemical Determinations: Advances and Applications. <i>Accounts of Chemical Research</i> , 1998 , 31, 379-386	24.3	299
1070	Desorption electrospray ionization mass spectrometry for high-throughput analysis of pharmaceutical samples in the ambient environment. <i>Analytical Chemistry</i> , 2005 , 77, 6915-27	7.8	297
1069	Droplet dynamics and ionization mechanisms in desorption electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2006 , 78, 8549-55	7.8	279
1068	Miniature and Fieldable Mass Spectrometers: Recent Advances. <i>Analytical Chemistry</i> , 2016 , 88, 2-29	7.8	271
1067	Collisions of polyatomic ions with surfaces. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1990 , 100, 209-265		267
1066	Miniature mass spectrometers. <i>Annual Review of Analytical Chemistry</i> , 2009 , 2, 187-214	12.5	251
1065	Preparing protein microarrays by soft-landing of mass-selected ions. <i>Science</i> , 2003 , 301, 1351-4	33.3	241
1064	Electrosonic spray ionization. A gentle technique for generating folded proteins and protein complexes in the gas phase and for studying ion-molecule reactions at atmospheric pressure. <i>Analytical Chemistry</i> , 2004 , 76, 4050-8	7.8	228
1063	Development of capabilities for imaging mass spectrometry under ambient conditions with desorption electrospray ionization (DESI). <i>International Journal of Mass Spectrometry</i> , 2007 , 259, 8-15	1.9	224
1062	Rectilinear ion trap: concepts, calculations, and analytical performance of a new mass analyzer. <i>Analytical Chemistry</i> , 2004 , 76, 4595-605	7.8	221
1061	Chiroselective self-directed octamerization of serine: implications for homochirogenesis. <i>Analytical Chemistry</i> , 2001 , 73, 3646-55	7.8	221
1060	Classifying human brain tumors by lipid imaging with mass spectrometry. <i>Cancer Research</i> , 2012 , 72, 645-54	10.1	220
1059	Mini 12, miniature mass spectrometer for clinical and other applications--introduction and characterization. <i>Analytical Chemistry</i> , 2014 , 86, 2909-16	7.8	215

1058	Accelerated bimolecular reactions in microdroplets studied by desorption electrospray ionization mass spectrometry. <i>Chemical Science</i> , 2011 , 2, 501-510	9.4	215
1057	Handheld rectilinear ion trap mass spectrometer. <i>Analytical Chemistry</i> , 2006 , 78, 5994-6002	7.8	214
1056	Miniature mass analyzers. <i>Journal of Mass Spectrometry</i> , 2000 , 35, 659-71	2.2	213
1055	Mass spectrometric profiling of intact biological tissue by using desorption electrospray ionization. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 7094-7	16.4	209
1054	Organic Reactions in Microdroplets: Reaction Acceleration Revealed by Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12960-12972	16.4	204
1053	Operation of a quadrupole ion trap mass spectrometer to achieve high mass/charge ratios. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991 , 106, 79-115		203
1052	Ambient mass spectrometry for the intraoperative molecular diagnosis of human brain tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 1611-6	11.5	201
1051	Surface-induced dissociation of molecular ions. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1985 , 67, 285-294		201
1050	Internal energy distributions of isolated ions after activation by various methods. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1987 , 75, 181-208		198
1049	Direct analysis of biological tissue by paper spray mass spectrometry. <i>Analytical Chemistry</i> , 2011 , 83, 1197-201	7.8	197
1048	Breaking the pumping speed barrier in mass spectrometry: discontinuous atmospheric pressure interface. <i>Analytical Chemistry</i> , 2008 , 80, 4026-32	7.8	195
1047	Leaf spray: direct chemical analysis of plant material and living plants by mass spectrometry. <i>Analytical Chemistry</i> , 2011 , 83, 7608-13	7.8	194
1046	Membrane introduction mass spectrometry: trends and applications. <i>Mass Spectrometry Reviews</i> , 2000 , 19, 1-37	11	194
1045	Copper(II)-Assisted Enantiomeric Analysis of d,l-Amino Acids Using the Kinetic Method: Chiral Recognition and Quantification in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2000 , 122, 10598-10609	16.4	190
1044	Rapid, direct analysis of cholesterol by charge labeling in reactive desorption electrospray ionization. <i>Analytical Chemistry</i> , 2009 , 81, 7618-24	7.8	189
1043	Soft-Landing of Polyatomic Ions at Fluorinated Self-Assembled Monolayer Surfaces. <i>Science</i> , 1997 , 275, 1447-1450	33.3	189
1042	Collisions of ions with surfaces at chemically relevant energies: Instrumentation and phenomena. <i>Review of Scientific Instruments</i> , 2001 , 72, 3149-3179	1.7	189
1041	Mechanisms in molecular SIMS. <i>Chemical Reviews</i> , 1987 , 87, 647-669	68.1	183

1040	Quantitative analysis of therapeutic drugs in dried blood spot samples by paper spray mass spectrometry: an avenue to therapeutic drug monitoring. <i>Journal of the American Society for Mass Spectrometry</i> , 2011 , 22, 1501-7	3.5	177
1039	Reactions of ions with organic surfaces. <i>Accounts of Chemical Research</i> , 1994 , 27, 316-323	24.3	177
1038	Intraoperative mass spectrometry mapping of an onco-metabolite to guide brain tumor surgery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 11121-6	11.5	176
1037	Rapid in situ detection of alkaloids in plant tissue under ambient conditions using desorption electrospray ionization. <i>Analyst, The</i> , 2005 , 130, 1624-33	5	176
1036	Systematic delineation of scan modes in multidimensional mass spectrometry. <i>Analytical Chemistry</i> , 1990 , 62, 1809-18	7.8	174
1035	Desorption electrospray ionization mass spectrometry for lipid characterization and biological tissue imaging. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011 , 1811, 946-60	5	173
1034	Rapid screening of anabolic steroids in urine by reactive desorption electrospray ionization. <i>Analytical Chemistry</i> , 2007 , 79, 8327-32	7.8	171
1033	Silica coated paper substrate for paper-spray analysis of therapeutic drugs in dried blood spots. <i>Analytical Chemistry</i> , 2012 , 84, 931-8	7.8	167
1032	Simulated splashes: Elucidating the mechanism of desorption electrospray ionization mass spectrometry. <i>Chemical Physics Letters</i> , 2008 , 464, 1-8	2.5	167
1031	Forensic analysis of inks by imaging desorption electrospray ionization (DESI) mass spectrometry. <i>Analyst, The</i> , 2007 , 132, 461-7	5	164
1030	Design and characterization of a multisource hand-held tandem mass spectrometer. <i>Analytical Chemistry</i> , 2008 , 80, 7198-205	7.8	162
1029	Three-dimensional visualization of mouse brain by lipid analysis using ambient ionization mass spectrometry. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 873-6	16.4	158
1028	Serine octamers: cluster formation, reactions, and implications for biomolecule homochirality. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 554-69	16.4	158
1027	Paper spray ionization devices for direct, biomedical analysis using mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2012 , 312, 201-207	1.9	156
1026	Assessment of paper spray ionization for quantitation of pharmaceuticals in blood spots. <i>International Journal of Mass Spectrometry</i> , 2011 , 300, 123-129	1.9	156
1025	In situ trace detection of peroxide explosives by desorption electrospray ionization and desorption atmospheric pressure chemical ionization. <i>Analytical Chemistry</i> , 2008 , 80, 1512-9	7.8	156
1024	Desorption electrospray ionization (DESI) mass spectrometry and tandem mass spectrometry (MS/MS) of phospholipids and sphingolipids: ionization, adduct formation, and fragmentation. <i>Journal of the American Society for Mass Spectrometry</i> , 2008 , 19, 531-43	3.5	150
1023	Molecular secondary ion mass spectrometry. <i>Analytical Chemistry</i> , 1980 , 52, 557-72	7.8	150

1022	Cholesterol sulfate imaging in human prostate cancer tissue by desorption electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2010 , 82, 3430-4	7.8	149
1021	Forensic applications of ambient ionization mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 394, 1995-2008	4.4	149
1020	Oxygen and methylene adducts of C60 and C70. <i>Journal of the American Chemical Society</i> , 1991 , 113, 5907-5908	16.4	147
1019	Accelerated Hantzsch electrospray synthesis with temporal control of reaction intermediates. <i>Chemical Science</i> , 2015 , 6, 397-401	9.4	146
1018	Lipid and metabolite profiles of human brain tumors by desorption electrospray ionization-MS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 1486-91	11.5	146
1017	Paper spray and extraction spray mass spectrometry for the direct and simultaneous quantification of eight drugs of abuse in whole blood. <i>Analytical Chemistry</i> , 2014 , 86, 7712-8	7.8	146
1016	Mass spectrometric quantitation of chiral drugs by the kinetic method. <i>Analytical Chemistry</i> , 2001 , 73, 1692-8	7.8	145
1015	Accelerated carbon-carbon bond-forming reactions in preparative electrospray. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11832-5	16.4	141
1014	Ambient molecular imaging by desorption electrospray ionization mass spectrometry. <i>Nature Protocols</i> , 2008 , 3, 517-24	18.8	141
1013	Ambient Ionization Mass Spectrometry for Point-of-Care Diagnostics and Other Clinical Measurements. <i>Clinical Chemistry</i> , 2016 , 62, 99-110	5.5	138
1012	High-throughput trace melamine analysis in complex mixtures. <i>Chemical Communications</i> , 2009 , 556-8	5.8	137
1011	Desorption electrospray ionization mass spectrometry for the analysis of pharmaceuticals and metabolites. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 387-92	2.2	137
1010	Reaction of fullerenes and benzyne. <i>Journal of Organic Chemistry</i> , 1992 , 57, 5069-5071	4.2	137
1009	Detection of explosives and related compounds by low-temperature plasma ambient ionization mass spectrometry. <i>Analytical Chemistry</i> , 2011 , 83, 1084-92	7.8	136
1008	Principal component analysis of urine metabolites detected by NMR and DESI-MS in patients with inborn errors of metabolism. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 387, 539-49	4.4	133
1007	Amino acid clusters formed by sonic spray ionization. <i>Analytical Chemistry</i> , 2003 , 75, 1514-23	7.8	131
1006	Autonomous in situ analysis and real-time chemical detection using a backpack miniature mass spectrometer: concept, instrumentation development, and performance. <i>Analytical Chemistry</i> , 2014 , 86, 2900-8	7.8	130
1005	Rapid trace detection of triacetone triperoxide (TATP) by complexation reactions during desorption electrospray ionization. <i>Chemical Communications</i> , 2006 , 953-5	5.8	130

1004	A quadrupole ion trap with cylindrical geometry operated in the mass-selective instability mode. <i>Analytical Chemistry</i> , 1998 , 70, 438-44	7.8	130
1003	Combining desorption electrospray ionization mass spectrometry and nuclear magnetic resonance for differential metabolomics without sample preparation. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 1577-84	2.2	129
1002	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
1001	Structure and fragmentation mechanisms of organic ions in the mass spectrometer. <i>Organic Mass Spectrometry</i> , 1969 , 2, 137-156		128
1000	Desorption electrospray ionization mass spectrometry for trace analysis of agrochemicals in food. <i>Analytical Chemistry</i> , 2009 , 81, 820-9	7.8	126
999	Kinetic Resolution of d,l-Amino Acids Based on Gas-Phase Dissociation of Copper(II) Complexes. <i>Analytical Chemistry</i> , 1999 , 71, 4427-9	7.8	126
998	Multiple reaction monitoring in mass spectrometry/mass spectrometry for direct analysis of complex mixtures. <i>Analytical Chemistry</i> , 1978 , 50, 2017-2021	7.8	125
997	Spray mechanism in paper spray ionization. <i>International Journal of Mass Spectrometry</i> , 2012 , 325-327, 167-171	1.9	124
996	Simulation of atmospheric transport and droplet-thin film collisions in desorption electrospray ionization. <i>Chemical Communications</i> , 2007 , 3915-7	5.8	124
995	Rapid analysis of whole blood by paper spray mass spectrometry for point-of-care therapeutic drug monitoring. <i>Analyst, The</i> , 2012 , 137, 2344-9	5	122
994	Multivariate statistical differentiation of renal cell carcinomas based on lipidomic analysis by ambient ionization imaging mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 2969-78	4.4	122
993	Gas-phase basicities and proton affinities of lysine and histidine measured from the dissociation of proton-bound dimers. <i>Rapid Communications in Mass Spectrometry</i> , 1994 , 8, 777-780	2.2	121
992	Ion/surface collisions at functionalized self-assembled monolayer surfaces. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1992 , 122, 181-217		121
991	cis-Diol functional group recognition by reactive desorption electrospray ionization (DESI). <i>Chemical Communications</i> , 2006 , 597-9	5.8	120
990	Mass spectrometric imaging of lipids using desorption electrospray ionization. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009 , 877, 2883-9	3.2	119
989	Quantitative analysis of small molecules by desorption electrospray ionization mass spectrometry from polytetrafluoroethylene surfaces. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 503-10	2.2	118
988	Desorption electrospray ionization then MALDI mass spectrometry imaging of lipid and protein distributions in single tissue sections. <i>Analytical Chemistry</i> , 2011 , 83, 8366-71	7.8	117
987	Miniature cylindrical ion trap mass spectrometer. <i>Analytical Chemistry</i> , 2002 , 74, 6145-53	7.8	117

986	Membrane Introduction Mass Spectrometry. <i>Analytical Chemistry</i> , 1991 , 63, 875A-883A	7.8	116
985	Handheld miniature ion trap mass spectrometers. <i>Analytical Chemistry</i> , 2009 , 81, 2421-5	7.8	115
984	Mass spectrometry of large, fragile, and involatile molecules. <i>Science</i> , 1982 , 218, 247-54	33.3	115
983	Soft landing of ions as a means of surface modification. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1977 , 23, 29-35		115
982	Towards the hand-held mass spectrometer: design considerations, simulation, and fabrication of micrometer-scaled cylindrical ion traps. <i>International Journal of Mass Spectrometry</i> , 2004 , 236, 91-104	1.9	114
981	Quadrupole ion trap mass spectrometry. <i>Accounts of Chemical Research</i> , 1990 , 23, 213-219	24.3	114
980	Injection of ions into a quadrupole ion trap mass spectrometer. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1989 , 88, 97-111		111
979	Secondary ion mass spectrometry. Cationization of organic molecules with metals. <i>Journal of the American Chemical Society</i> , 1978 , 100, 5615-5621	16.4	111
978	Nondestructive, histologically compatible tissue imaging by desorption electrospray ionization mass spectrometry. <i>ChemBioChem</i> , 2011 , 12, 2129-32	3.8	109
977	Ion/surface reactions and ion soft-landing. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 1490-500	3.6	109
976	Chiral analysis by MS. <i>Analytical Chemistry</i> , 2003 , 75, 25A-31A	7.8	109
975	Lipid profiles of canine invasive transitional cell carcinoma of the urinary bladder and adjacent normal tissue by desorption electrospray ionization imaging mass spectrometry. <i>Analytical Chemistry</i> , 2009 , 81, 8758-64	7.8	108
974	Discrimination of human astrocytoma subtypes by lipid analysis using desorption electrospray ionization imaging mass spectrometry. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5953-6	16.4	107
973	A miniature cylindrical quadrupole ion trap: simulation and experiment. <i>Analytical Chemistry</i> , 1998 , 70, 4896-901	7.8	107
972	Internal energy distributions acquired through collisional activation at low and high energies. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1985 , 64, 79-83		107
971	Intraoperative assessment of tumor margins during glioma resection by desorption electrospray ionization-mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 6700-6705	11.5	106
970	Improved spatial resolution in the imaging of biological tissue using desorption electrospray ionization. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 404, 389-98	4.4	106
969	Quantitative paper spray mass spectrometry analysis of drugs of abuse. <i>Analyst, The</i> , 2013 , 138, 4443-7	5	106

968	Direct plant tissue analysis and imprint imaging by desorption electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2011 , 83, 5754-61	7.8	106
967	Elucidation of reaction mechanisms responsible for afterglow and reagent-ion formation in the low-temperature plasma probe ambient ionization source. <i>Analytical Chemistry</i> , 2011 , 83, 3675-86	7.8	106
966	Matrix effects, internal energies and MS/MS spectra of molecular ions sputtered from surfaces. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1983 , 53, 111-124		106
965	Polyhydroxyanthraquinones as quorum sensing inhibitors from the guttates of <i>Penicillium restrictum</i> and their analysis by desorption electrospray ionization mass spectrometry. <i>Journal of Natural Products</i> , 2014 , 77, 1351-8	4.9	105
964	Non-proximate detection of explosives and chemical warfare agent simulants by desorption electrospray ionization mass spectrometry. <i>Chemical Communications</i> , 2006 , 2968-70	5.8	105
963	Desorption ionization mass spectrometry: sample preparation for secondary ion mass spectrometry, laser desorption, and field desorption. <i>Journal of the American Chemical Society</i> , 1982 , 104, 1507-1511	16.4	105
962	New ionization methods and miniature mass spectrometers for biomedicine: DESI imaging for cancer diagnostics and paper spray ionization for therapeutic drug monitoring. <i>Faraday Discussions</i> , 2011 , 149, 247-67; discussion 333-56	3.6	104
961	Analysis of drugs of abuse in biofluids by low temperature plasma (LTP) ionization mass spectrometry. <i>Analyst, The</i> , 2010 , 135, 927-33	5	104
960	Monitoring diet effects via biofluids and their implications for metabolomics studies. <i>Analytical Chemistry</i> , 2007 , 79, 89-97	7.8	104
959	Chiral transmission between amino acids: chirally selective amino acid substitution in the serine octamer as a possible step in homochirogenesis. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 1721-4	16.4	104
958	Kinetic energy effects in mass spectrometry/mass spectrometry using a sector/quadrupole tandem instrument. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1981 , 39, 219-230		103
957	Ambient mass spectrometry with a handheld mass spectrometer at high pressure. <i>Analytical Chemistry</i> , 2007 , 79, 7734-9	7.8	102
956	Rapid analysis of metabolites and drugs of abuse from urine samples by desorption electrospray ionization-mass spectrometry. <i>Analyst, The</i> , 2007 , 132, 868-75	5	102
955	Detection of explosives on skin using ambient ionization mass spectrometry. <i>Chemical Communications</i> , 2007 , 2142-4	5.8	101
954	Cationization of organic molecules in secondary ion mass spectrometry. <i>Journal of the American Chemical Society</i> , 1977 , 99, 7725-7726	16.4	101
953	Metastable loss of nitrosyl radical from aromatic nitro compounds. <i>Journal of the American Chemical Society</i> , 1973 , 95, 1739-1745	16.4	100
952	Accelerated Reaction Kinetics in Microdroplets: Overview and Recent Developments. <i>Annual Review of Physical Chemistry</i> , 2020 , 71, 31-51	15.7	99
951	Mixture analysis by mass-analyzed ion kinetic energy spectrometry. <i>Analytical Chemistry</i> , 1976 , 48, 2113-2119	7.8	99

950	Paper spray: a simple and efficient means of analysis of different contaminants in foodstuffs. <i>Analyst, The</i> , 2012 , 137, 2556-8	5	98
949	Desorption electrospray ionization with a portable mass spectrometer: in situ analysis of ambient surfaces. <i>Chemical Communications</i> , 2006 , 1709-11	5.8	98
948	Coupling desorption electrospray ionization with ion mobility/mass spectrometry for analysis of protein structure: evidence for desorption of folded and denatured States. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5045-51	3.4	98
947	Chemical aspects of the extractive methods of ambient ionization mass spectrometry. <i>Annual Review of Physical Chemistry</i> , 2013 , 64, 481-505	15.7	97
946	Non-proximate detection of small and large molecules by desorption electrospray ionization and desorption atmospheric pressure chemical ionization mass spectrometry: instrumentation and applications in forensics, chemistry, and biology. <i>Analytical Chemistry</i> , 2007 , 79, 7069-77	7.8	96
945	Direct analysis of Stevia leaves for diterpene glycosides by desorption electrospray ionization mass spectrometry. <i>Analyst, The</i> , 2009 , 134, 867-74	5	95
944	Matrix-assisted secondary ion mass spectra of biological compounds. <i>Analytical Chemistry</i> , 1981 , 53, 109-113	18.3	95
943	Paper spray ionization of polar analytes using non-polar solvents. <i>Chemical Communications</i> , 2011 , 47, 2811-3	5.8	94
942	Multivariate statistical identification of human bladder carcinomas using ambient ionization imaging mass spectrometry. <i>Chemistry - A European Journal</i> , 2011 , 17, 2897-902	4.8	94
941	Extending the mass range of the quadrupole ion trap using axial modulation. <i>Rapid Communications in Mass Spectrometry</i> , 1989 , 3, 225-229	2.2	94
940	Low-energy ionic collisions at molecular solids. <i>Chemical Reviews</i> , 2012 , 112, 5356-411	68.1	93
939	Induced nanoelectrospray ionization for matrix-tolerant and high-throughput mass spectrometry. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9907-10	16.4	93
938	High-throughput quantitative analysis by desorption electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2009 , 20, 321-5	3.5	93
937	Imaging of lipids in atheroma by desorption electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2009 , 81, 8702-7	7.8	93
936	Serine octamer reactions: indicators of prebiotic relevance. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 3521-3	16.4	93
935	Special feature: Historical. Collision-induced dissociation: Readings and commentary. <i>Journal of Mass Spectrometry</i> , 1995 , 30, 1215-1221	2.2	93
934	Screening of agrochemicals in foodstuffs using low-temperature plasma (LTP) ambient ionization mass spectrometry. <i>Analyst, The</i> , 2010 , 135, 971-9	5	92
933	Mass spectrometry. XXIV. A study of the reactions induced in triphenylphosphine, triphenylphosphine oxide, and related substances upon electron impact. <i>Journal of the American Chemical Society</i> , 1968 , 90, 966-972	16.4	92

932	Direct analysis of melamine in complex matrices using a handheld mass spectrometer. <i>Analyst, The</i> , 2010 , 135, 705-11	5	90
931	In situ analysis of agrochemical residues on fruit using ambient ionization on a handheld mass spectrometer. <i>Analyst, The</i> , 2011 , 136, 4392-6	5	89
930	Internal energy distributions in desorption electrospray ionization (DESI). <i>Journal of the American Society for Mass Spectrometry</i> , 2008 , 19, 420-7	3.5	89
929	Fabric analysis by ambient mass spectrometry for explosives and drugs. <i>Analyst, The</i> , 2008 , 133, 1532-40	5	88
928	Ambient analysis of saturated hydrocarbons using discharge-induced oxidation in desorption electrospray ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 261-7	3.5	87
927	Rapid ambient mass spectrometric profiling of intact, untreated bacteria using desorption electrospray ionization. <i>Chemical Communications</i> , 2007 , 61-3	5.8	87
926	New surfaces for desorption electrospray ionization mass spectrometry: porous silicon and ultra-thin layer chromatography plates. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 2143-50	2.2	86
925	Ion soft-landing into liquids: Protein identification, separation, and purification with retention of biological activity. <i>Journal of the American Society for Mass Spectrometry</i> , 2004 , 15, 1874-84	3.5	86
924	Interfacial chemical reactions accompanying desorption ionization mass spectrometry. <i>Mass Spectrometry Reviews</i> , 1988 , 7, 465-502	11	86
923	Handheld low-temperature plasma probe for portable "point-and-shoot" ambient ionization mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 6545-52	7.8	85
922	Salt tolerance of desorption electrospray ionization (DESI). <i>Journal of the American Society for Mass Spectrometry</i> , 2007 , 18, 2218-25	3.5	85
921	Chemical ionization in an ion trap mass spectrometer. <i>Analytical Chemistry</i> , 1987 , 59, 1278-1285	7.8	85
920	Membrane interface for selective introduction of volatile compounds directly into the ionization chamber of a mass spectrometer. <i>Analytical Chemistry</i> , 1987 , 59, 597-601	7.8	85
919	Serine sublimates with spontaneous chiral amplification. <i>Chemical Communications</i> , 2007 , 1071-3	5.8	84
918	Epimer distinction and structural effects on gas-phase acidities of alcohols measured using the kinetic method. <i>Journal of the American Chemical Society</i> , 1992 , 114, 2897-2903	16.4	84
917	Detection of explosives as negative ions directly from surfaces using a miniature mass spectrometer. <i>Analytical Chemistry</i> , 2010 , 82, 5313-6	7.8	83
916	Chiral analysis using the kinetic method with optimized fixed ligands: applications to some antibiotics. <i>Analytical Chemistry</i> , 2003 , 75, 678-84	7.8	83
915	Mass shifts and local space charge effects observed in the quadrupole ion trap at higher resolution. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995 , 144, 47-65		83

914	Rapid direct lipid profiling of bacteria using desorption electrospray ionization mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2011 , 301, 37-44	1.9	82
913	Direct detection of benzene, toluene, and ethylbenzene at trace levels in ambient air by atmospheric pressure chemical ionization using a handheld mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 132-5	3.5	82
912	Thermal production and reactions of organic ions at atmospheric pressure. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 3656-60	16.4	82
911	Quantitative chiral analysis of sugars by electrospray ionization tandem mass spectrometry using modified amino acids as chiral reference compounds. <i>Analytical Chemistry</i> , 2002 , 74, 3458-62	7.8	82
910	Molecular ionization from carbon nanotube paper. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5936-40	16.4	81
909	Broad-band excitation in the quadrupole ion trap mass spectrometer using shaped pulses created with the inverse Fourier transform. <i>Analytical Chemistry</i> , 1993 , 65, 1827-1833	7.8	81
908	Energy deposition in [Fe(CO) ₅] ⁺ upon collision with a metal surface. <i>Organic Mass Spectrometry</i> , 1986 , 21, 193-195		81
907	High throughput reaction screening using desorption electrospray ionization mass spectrometry. <i>Chemical Science</i> , 2018 , 9, 1647-1653	9.4	80
906	On-line reaction monitoring and mechanistic studies by mass spectrometry: Negishi cross-coupling, hydrogenolysis, and reductive amination. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5931-5	16.4	80
905	Molecular imaging of adrenal gland by desorption electrospray ionization mass spectrometry. <i>Analyst, The</i> , 2010 , 135, 28-32	5	80
904	Surface reactions and surface-induced dissociation of polyatomic ions at self-assembled organic monolayer surfaces. <i>Journal of the American Chemical Society</i> , 1991 , 113, 8967-8969	16.4	80
903	Bond formation upon electron impact. <i>Organic Mass Spectrometry</i> , 1969 , 2, 481-519		80
902	Instantaneous chemical profiles of banknotes by ambient mass spectrometry. <i>Analyst, The</i> , 2010 , 135, 2533-9	5	79
901	Analytical performance of a miniature cylindrical ion trap mass spectrometer. <i>Analytical Chemistry</i> , 2002 , 74, 6154-62	7.8	79
900	Long-lived states of rare gas ions. Ion kinetic energy study. <i>Journal of the American Chemical Society</i> , 1972 , 94, 6611-6621	16.4	79
899	Accelerated Chemical Reactions and Organic Synthesis in Leidenfrost Droplets. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10478-82	16.4	79
898	Desorption electrospray ionization in a small pressure-tight enclosure. <i>Analytical Chemistry</i> , 2007 , 79, 6398-403	7.8	78
897	Chiral resolution of d- and l-amino acids by tandem mass spectrometry of Ni(II)-bound trimeric complexes. <i>International Journal of Mass Spectrometry</i> , 2001 , 204, 159-169	1.9	78

896	Energy partitioning data as an ion structure probe. Substituted anisoles. <i>Journal of the American Chemical Society</i> , 1973 , 95, 1732-1739	16.4	78
895	Rapid discrimination of bacteria by paper spray mass spectrometry. <i>Analytical Chemistry</i> , 2014 , 86, 7500-7508	7.8	77
894	Atmospheric pressure ion/molecule reactions for the selective detection of nitroaromatic explosives using acetonitrile and air as reagents. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 3130-8	2.2	77
893	Direct quantitative analysis of nicotine alkaloids from biofluid samples using paper spray mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 11540-4	7.8	76
892	Biological tissue diagnostics using needle biopsy and spray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2011 , 83, 9221-5	7.8	76
891	Clustering of nucleosides in the presence of alkali metals: Biologically relevant quartets of guanosine, deoxyguanosine and uridine observed by ESI-MS/MS. <i>Journal of Mass Spectrometry</i> , 2003 , 38, 87-97	2.2	76
890	New scan modes accessed with a hybrid mass spectrometer. <i>Analytical Chemistry</i> , 1985 , 57, 2918-2924	7.8	76
889	Ion structure determination through collisions of ions of high kinetic energy. <i>Organic Mass Spectrometry</i> , 1975 , 10, 503-506		76
888	The doubly-charged ion mass spectra of hydrocarbons. <i>Organic Mass Spectrometry</i> , 1972 , 6, 749-763		76
887	Chemical Reactivity Assessment Using Reactive Paper Spray Ionization Mass Spectrometry: The Katritzky Reaction. <i>ChemPlusChem</i> , 2013 , 78, 1142-1148	2.8	75
886	Proton affinities of N-heterocyclic carbene super bases. <i>Organic Letters</i> , 2005 , 7, 3949-52	6.2	75
885	Geometry optimization for the cylindrical ion trap: field calculations, simulations and experiments. <i>International Journal of Mass Spectrometry</i> , 2005 , 241, 119-132	1.9	75
884	Site of gas-phase cation attachment. Protonation, methylation, and ethylation of aniline, phenol, and thiophenol. <i>Journal of Organic Chemistry</i> , 1983 , 48, 5236-5242	4.2	75
883	Accelerated C-N bond formation in dropcast thin films on ambient surfaces. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 1461-8	3.5	74
882	Direct Determination of Organic Compounds in Water at Parts-per-Quadrillion Levels by Membrane Introduction Mass Spectrometry. <i>Analytical Chemistry</i> , 1995 , 67, 1409-1412	7.8	74
881	Polar acetalization and transacetalization in the gas phase: the Eberlin reaction. <i>Chemical Reviews</i> , 2006 , 106, 188-211	68.1	73
880	Parallel Reactions for Enantiomeric Quantification of Peptides by Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 757-760	16.4	73
879	The Role of the Interface in Thin Film and Droplet Accelerated Reactions Studied by Competitive Substituent Effects. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3433-7	16.4	73

878	Conformer selection of protein ions by ion mobility in a triple quadrupole mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 1994 , 5, 127-36	3.5	72
877	Excitation and dissociation of isolated ions derived from polycyclic aromatic hydrocarbons. <i>Journal of the American Chemical Society</i> , 1988 , 110, 657-665	16.4	72
876	Synthesis and catalytic reactions of nanoparticles formed by electrospray ionization of coinage metals. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3147-50	16.4	71
875	Aspects of recent developments in ion-trap mass spectrometry. <i>Analytica Chimica Acta</i> , 1990 , 228, 1-21	6.6	71
874	A tandem quadrupole mass spectrometer for the study of surface-induced dissociation. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1987 , 77, 31-47		71
873	Kinetic energy release in ionic fragmentations: Use as an ion structure probe. <i>Organic Mass Spectrometry</i> , 1973 , 7, 185-192		71
872	Touch spray mass spectrometry for in situ analysis of complex samples. <i>Analyst, The</i> , 2014 , 139, 2714-205		70
871	Birch reduction of benzene in a low-temperature plasma. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2017-9	16.4	70
870	Consecutive reactions in triple analyzer mass spectrometry and applications to mixture analysis. <i>Analytical Chemistry</i> , 1982 , 54, 295-299	7.8	70
869	Direct and quantitative analysis of underivatized acylcarnitines in serum and whole blood using paper spray mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 404, 1389-97	4.4	69
868	Desorption electrospray ionization mass spectrometry analysis of lipids after two-dimensional high-performance thin-layer chromatography partial separation. <i>Analytical Chemistry</i> , 2010 , 82, 1744-50	7.8	69
867	Ambient ion soft landing. <i>Analytical Chemistry</i> , 2011 , 83, 2648-54	7.8	69
866	Mapping lipid alterations in traumatically injured rat spinal cord by desorption electrospray ionization imaging mass spectrometry. <i>Analytical Chemistry</i> , 2011 , 83, 207-15	7.8	69
865	Clustering of nucleobases with alkali metals studied by electrospray ionization tandem mass spectrometry: implications for mechanisms of multistrand DNA stabilization. <i>Journal of Mass Spectrometry</i> , 2002 , 37, 676-86	2.2	67
864	Chemical Mass Shifts in Ion Trap Mass Spectrometry: Experiments and Simulations. <i>Analytical Chemistry</i> , 1999 , 71, 3405-3415	7.8	67
863	Resonance Ejection Ion Trap Mass Spectrometry and Nonlinear Field Contributions: The Effect of Scan Direction on Mass Resolution. <i>Analytical Chemistry</i> , 1994 , 66, 725-729	7.8	67
862	Windows version of the ion trap simulation program ITSIM: a powerful heuristic and predictive tool in ion trap mass spectrometry. <i>Journal of Mass Spectrometry</i> , 1998 , 33, 297-304	2.2	66
861	In vivo mass spectrometric determination of organic compounds in blood with a membrane probe. <i>Analytical Chemistry</i> , 1987 , 59, 454-8	7.8	66

860	Desorption due to charge exchange in low-energy collisions of organofluorine ions at solid surfaces. <i>Organic Mass Spectrometry</i> , 1988 , 23, 317-326		66
859	Facile determination of double bond position in unsaturated fatty acids and esters by low temperature plasma ionization mass spectrometry. <i>Analytical Chemistry</i> , 2011 , 83, 4738-44	7.8	65
858	Surface-induced dissociation of molecular ions in a quadrupole ion trap mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 1991 , 2, 487-91	3.5	65
857	Hybrid BEEQ tandem mass spectrometer for the study of ion/surface collision processes. <i>Review of Scientific Instruments</i> , 1992 , 63, 5613-5625	1.7	65
856	A penta-quadrupole instrument for reaction intermediate scans and other MS-MS-MS experiments. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1990 , 101, 1-20		65
855	A hybrid BEQQ mass spectrometer. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1985 , 65, 125-140		65
854	Thermochemistry and energy partitioning in the charge separation reactions of doubly charged triatomic ions. <i>Journal of Chemical Physics</i> , 1974 , 61, 1208-1213	3.9	65
853	Mass spectrometry imaging as a tool for surgical decision-making. <i>Journal of Mass Spectrometry</i> , 2013 , 48, 1178-87	2.2	64
852	Proton affinity determinations using the kinetic method in an ion trap mass spectrometer. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991 , 106, 249-272		64
851	A tandem time-of-flight mass spectrometer for surface-induced dissociation. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1987 , 77, 49-61		64
850	Direct olive oil analysis by low-temperature plasma (LTP) ambient ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 3057-62	2.2	63
849	Non-aqueous spray solvents and solubility effects in desorption electrospray ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 572-9	3.5	63
848	Desorption electrospray ionization imaging mass spectrometry of lipids in rat spinal cord. <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 1177-89	3.5	63
847	Monitoring of toxic compounds in air using a handheld rectilinear ion trap mass spectrometer. <i>Analytical Chemistry</i> , 2008 , 80, 734-41	7.8	63
846	Doubly charged cluster ions $[(\text{NaCl})_m(\text{Na})_2]^{2+}$: magic numbers, dissociation, and structure. <i>International Journal of Mass Spectrometry</i> , 2000 , 195-196, 667-684	1.9	63
845	A parallel miniature cylindrical ion trap array. <i>Analytical Chemistry</i> , 2000 , 72, 3291-7	7.8	63
844	Matrix effects in secondary ion mass spectrometry. <i>Analytical Chemistry</i> , 1983 , 55, 1157-1160	7.8	63
843	Beyond the flask: Reactions on the fly in ambient mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 57, 135-146	14.6	62

842	Direct drug analysis from oral fluid using medical swab touch spray mass spectrometry. <i>Analytica Chimica Acta</i> , 2015 , 861, 47-54	6.6	62
841	Soft landing of polyatomic ions for selective modification of fluorinated self-assembled monolayer surfaces. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1998 , 174, 193-217		62
840	Preparative linear ion trap mass spectrometer for separation and collection of purified proteins and peptides in arrays using ion soft landing. <i>Analytical Chemistry</i> , 2004 , 76, 6293-305	7.8	62
839	Gas-Phase Cl ⁺ Affinities of Pyridines Determined by the Kinetic Method Using Multiple-Stage (MS ³) Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 1994 , 116, 2457-2465	16.4	62
838	Laser-desorption mass spectrometry/mass spectrometry and the mechanism of desorption ionization. <i>Journal of the American Chemical Society</i> , 1981 , 103, 1295-1297	16.4	62
837	Electron impact studies. XII. Mass spectra of substituted imidazoles. <i>Australian Journal of Chemistry</i> , 1967 , 20, 1613	1.2	62
836	Differentiation of prostate cancer from normal tissue in radical prostatectomy specimens by desorption electrospray ionization and touch spray ionization mass spectrometry. <i>Analyst, The</i> , 2015 , 140, 1090-8	5	61
835	Thermal formation of homochiral serine clusters and implications for the origin of homochirality. <i>Journal of the American Chemical Society</i> , 2006 , 128, 17074-86	16.4	61
834	Identification of quaternary alkaloids in mushroom by chromatography/secondary ion mass spectrometry. <i>Analytical Chemistry</i> , 1981 , 53, 976-981	7.8	61
833	A new Hybrid ³ ector/quadrupole mass spectrometer for mass spectrometry/mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1982 , 41, 157-177		61
832	Analysis on the go: quantitation of drugs of abuse in dried urine with digital microfluidics and miniature mass spectrometry. <i>Analytical Chemistry</i> , 2014 , 86, 6121-9	7.8	60
831	Reactions of microsolvated organic compounds at ambient surfaces: droplet velocity, charge state, and solvent effects. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 1077-84	3.5	60
830	Perspectives in imaging using mass spectrometry. <i>Chemical Communications</i> , 2011 , 47, 2741-6	5.8	60
829	Desorption electrospray ionization and electrosonic spray ionization for solid- and solution-phase analysis of industrial polymers. <i>Chemical Communications</i> , 2006 , 888-90	5.8	60
828	Tautomer characterization by energy resolved mass spectrometry. Dimethyl phosphite and dimethyl phosphonate ions. <i>Journal of the American Chemical Society</i> , 1985 , 107, 1881-1886	16.4	60
827	Mass spectrometry: analytical capabilities and potentials. <i>Science</i> , 1983 , 222, 273-91	33.3	60
826	Enhanced detection of olefins using ambient ionization mass spectrometry: Ag ⁺ adducts of biologically relevant alkenes. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 399, 367-76	4.4	59
825	Targeted metabolomic analysis of <i>Escherichia coli</i> by desorption electrospray ionization and extractive electrospray ionization mass spectrometry. <i>Analytical Biochemistry</i> , 2008 , 375, 272-81	3.1	59

824	Chiral enrichment of serine via formation, dissociation, and soft-landing of octameric cluster ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2004 , 15, 1360-5	3.5	59
823	High-throughput miniature cylindrical ion trap array mass spectrometer. <i>Analytical Chemistry</i> , 2003 , 75, 5656-64	7.8	59
822	Estimation of the electron affinities of C60, corannulene, and coronene by using the kinetic method. <i>Journal of the American Society for Mass Spectrometry</i> , 1996 , 7, 619-27	3.5	59
821	Desorption electrospray ionization mass spectrometry reveals lipid metabolism of individual oocytes and embryos. <i>PLoS ONE</i> , 2013 , 8, e74981	3.7	58
820	Surface effects and electrochemical cell capacitance in desorption electrospray ionization. <i>Analyst, The</i> , 2008 , 133, 525-31	5	58
819	Organic reactions of ionic intermediates promoted by atmospheric-pressure thermal activation. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3422-5	16.4	58
818	Direct monitoring of toxic compounds in air using a portable mass spectrometer. <i>Analyst, The</i> , 2006 , 131, 556-67	5	58
817	Determination of relative gas-phase basicities by the proton-transfer equilibrium technique and the kinetic method in a quadrupole ion-trap. <i>Talanta</i> , 1989 , 36, 255-60	6.2	58
816	Direct insertion membrane probe for selective introduction of organic compounds into a mass spectrometer. <i>Analytica Chimica Acta</i> , 1990 , 231, 175-190	6.6	58
815	Collision-induced dissociation mass spectrometry: target gas effects upon scattering and charge exchange. <i>Journal of the American Chemical Society</i> , 1981 , 103, 12-17	16.4	58
814	Forensic Sampling and Analysis from a Single Substrate: Surface-Enhanced Raman Spectroscopy Followed by Paper Spray Mass Spectrometry. <i>Analytical Chemistry</i> , 2017 , 89, 10973-10979	7.8	57
813	Design of portable mass spectrometers with handheld probes: aspects of the sampling and miniature pumping systems. <i>Journal of the American Society for Mass Spectrometry</i> , 2015 , 26, 240-7	3.5	57
812	Membrane introduction mass spectrometry. <i>Analytica Chimica Acta</i> , 1997 , 350, 257-271	6.6	57
811	Atmospheric pressure ionization in a miniature mass spectrometer. <i>Analytical Chemistry</i> , 2005 , 77, 2928-33	7.8	57
810	Meisenheimer complexes bonded at carbon and at oxygen. <i>Journal of the American Society for Mass Spectrometry</i> , 2004 , 15, 998-1004	3.5	57
809	Differentiation and quantitation of isomeric dipeptides by low-energy dissociation of copper(II)-bound complexes. <i>Journal of the American Society for Mass Spectrometry</i> , 2001 , 12, 490-6	3.5	57
808	Rapid enantiomeric determination of β -hydroxy acids by electrospray ionization tandem mass spectrometry. <i>Chemical Communications</i> , 2000 , 2023-2024	5.8	57
807	Proton Affinities of Free Radicals Measured by the Kinetic Method. <i>Journal of the American Chemical Society</i> , 1994 , 116, 4888-4892	16.4	57

806	Collisionally activated dissociation of peptides using a quadrupole ion-trap mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 1990 , 4, 30-33	2.2	57
805	Stripping reactions of gaseous ions in the mass spectrometer. <i>Journal of the American Chemical Society</i> , 1972 , 94, 1004-1006	16.4	57
804	Direct Analysis of Mixtures by Mass Spectrometry		57
803	Mass spectrometry in the home and garden. <i>Journal of the American Society for Mass Spectrometry</i> , 2015 , 26, 224-30	3.5	56
802	Thermochemical Determinations by the Kinetic Method with Direct Entropy Correction \square <i>Journal of Physical Chemistry A</i> , 2002 , 106, 9939-9946	2.8	56
801	Polar [4 + 2+] Diels-Alder cycloadditions of acylium ions in the gas phase. <i>Journal of the American Chemical Society</i> , 1993 , 115, 9226-9233	16.4	56
800	Mass range extension in a quadrupole ion-trap mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 1989 , 3, 50-53	2.2	56
799	Analysis of polycyclic aromatic hydrocarbons using desorption atmospheric pressure chemical ionization coupled to a portable mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2015 , 26, 271-80	3.5	55
798	Direct analysis of 4-methylimidazole in foods using paper spray mass spectrometry. <i>Analyst, The</i> , 2013 , 138, 4624-30	5	55
797	Spectroscopic plasma diagnostics on a low-temperature plasma probe for ambient mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2011 , 26, 1434	3.7	55
796	Reactive desorption electrospray ionization for selective detection of the hydrolysis products of phosphonate esters. <i>Journal of Mass Spectrometry</i> , 2007 , 42, 1086-92	2.2	55
795	Quotient ratio method for quantitative enantiomeric determination by mass spectrometry. <i>Analytical Chemistry</i> , 2002 , 74, 3783-9	7.8	55
794	Selective Injection and Isolation of Ions in Quadrupole Ion Trap Mass Spectrometry Using Notched Waveforms Created Using the Inverse Fourier Transform. <i>Analytical Chemistry</i> , 1994 , 66, 2488-2496	7.8	55
793	On-line monitoring of bioreactions of <i>Bacillus polymyxa</i> and <i>Klebsiella oxytoca</i> by membrane introduction tandem mass spectrometry with flow injection analysis sampling. <i>Analytical Chemistry</i> , 1990 , 62, 1798-1804	7.8	55
792	Secondary ion mass spectra of diquaternary ammonium salts. <i>Analytical Chemistry</i> , 1980 , 52, 2054-2057	7.8	55
791	Energy-resolved tandem and fourier-transform mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1982 , 44, 215-229		55
790	Zero Volt Paper Spray Ionization and Its Mechanism. <i>Analytical Chemistry</i> , 2015 , 87, 6786-93	7.8	54
789	Detection of strep throat causing bacterium directly from medical swabs by touch spray-mass spectrometry. <i>Analyst, The</i> , 2014 , 139, 4785-9	5	54

788	Fast analysis of high-energy compounds and agricultural chemicals in water with desorption electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007 , 21, 3729-36	3.2	54
787	Structures and mechanisms of reactions of isomeric C ₂ H ₃ O ⁺ and C ₂ H ₃ S ⁺ ions revealed through ion/molecule reactions in conjunction with 2D and 3D mass spectrometry. <i>Journal of the American Chemical Society</i> , 1992 , 114, 2884-2896	16.4	54
786	Direct determination of chlorination products of organic amines using membrane introduction mass spectrometry. <i>Analytical Chemistry</i> , 1991 , 63, 1794-1801	7.8	54
785	Internal energy requirements for remote site fragmentation. <i>Organic Mass Spectrometry</i> , 1988 , 23, 627-633		54
784	Rapid analysis of synthetic cannabinoids using a miniature mass spectrometer with ambient ionization capability. <i>Talanta</i> , 2015 , 142, 190-6	6.2	53
783	In vivo recognition of <i>Bacillus subtilis</i> by desorption electrospray ionization mass spectrometry (DESI-MS). <i>Analyst, The</i> , 2009 , 134, 838-41	5	53
782	Imaging of human lens lipids by desorption electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 2095-104	3.5	53
781	Peptide fragmentation assisted by surfaces treated with a low-temperature plasma in nanoESI. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8646-9	16.4	53
780	Multiparticle simulation of ion motion in the ion trap mass spectrometer: Resonant and direct current pulse excitation. <i>Journal of the American Society for Mass Spectrometry</i> , 1995 , 6, 57-70	3.5	53
779	Quadrupole ion trap mass spectrometry: Current applications and future directions for peptide analysis. <i>Biological Mass Spectrometry</i> , 1992 , 21, 226-241		53
778	Relative gas-phase acidities from triple quadrupole mass spectrometers. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1982 , 42, 115-124		53
777	High-resolution tissue imaging on an orbitrap mass spectrometer by desorption electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2010 , 45, 223-6	2.2	52
776	Kinetic method for the simultaneous chiral analysis of different amino acids in mixtures. <i>Journal of Mass Spectrometry</i> , 2003 , 38, 386-93	2.2	52
775	Arginine Clusters Generated by Electrospray Ionization and Identified by Tandem Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 1999 , 5, 353		52
774	Reactions of Metal Ions at Fluorinated SAM (Self-Assembled Monolayer) Surfaces: Formation of MF _n ⁺ (M = Ti, Cr, Fe, Mo, and W; n = 1-5). <i>Journal of the American Chemical Society</i> , 1994 , 116, 8658-8665	16.4	52
773	Laser photodissociation probe for ion tomography studies in a quadrupole ion-trap mass spectrometer. <i>Chemical Physics Letters</i> , 1992 , 191, 405-410	2.5	52
772	Reactive collisions of polyatomic ions at solid surfaces. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1988 , 82, 131-150		52
771	Surface modified mass spectrometry. <i>Journal of the American Chemical Society</i> , 1975 , 97, 1583-1585	16.4	52

770	The Fischer indole synthesis and pinacol rearrangement in the mass spectrometer. <i>Journal of the American Chemical Society</i> , 1978 , 100, 6720-6725	16.4	52
769	Preparation and in situ characterization of surfaces using soft landing in a Fourier transform ion cyclotron resonance mass spectrometer. <i>Analytical Chemistry</i> , 2005 , 77, 3452-60	7.8	51
768	Desorption electrospray ionization using an Orbitrap mass spectrometer: Exact mass measurements on drugs and peptides. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 3403-8	2.2	51
767	Theory, simulation and measurement of chemical mass shifts in RF quadrupole ion traps. <i>International Journal of Mass Spectrometry</i> , 2003 , 228, 237-267	1.9	51
766	Serine octamer metaclusters: formation, structure elucidation and implications for homochiral polymerization. <i>Chemical Communications</i> , 2001 , 1854-5	5.8	51
765	A versatile method of simulation of the operation of ion trap mass spectrometers. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1992 , 121, 49-63		51
764	Selective isotopic exchange of polyfunctional ions in tandem mass spectrometry: Methodology, applications and mechanism. <i>Organic Mass Spectrometry</i> , 1992 , 27, 77-88		51
763	Fragmentation of even electron ions. Protonated ketones and ethers. <i>Organic Mass Spectrometry</i> , 1979 , 14, 273-280		51
762	Studies in mass spectrometry. XXXI. Comparison of reaction rates in common ions generated via fragmentation and direct ionization. <i>Journal of the American Chemical Society</i> , 1968 , 90, 6759-6763	16.4	51
761	Chiral morphing and enantiomeric quantification in mixtures by mass spectrometry. <i>Analytical Chemistry</i> , 2004 , 76, 663-71	7.8	50
760	Atmospheric pressure gas-phase H/D exchange of serine octamers. <i>Analytical Chemistry</i> , 2003 , 75, 6147-54		50
759	Energy disposal and target effects in hyperthermal collisions of ferrocene molecular ions at surfaces. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 245-251		50
758	Internal energy distributions deposited in doubly and singly charged tungsten hexacarbonyl ions generated by charge stripping, electron impact, and charge exchange. <i>Journal of the American Society for Mass Spectrometry</i> , 1990 , 1, 16-27	3.5	50
757	Photodissociation in a quadrupole ion trap mass spectrometer using a fiber optic interface. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1987 , 75, 345-352		50
756	Gas-phase thermochemical information from triple quadrupole mass spectrometers: Relative proton affinities of amines. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1983 , 52, 165-174		50
755	Angle-resolved mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1979 , 31, 333-343		50
754	Direct analysis of steviol glycosides from Stevia leaves by ambient ionization mass spectrometry performed on whole leaves. <i>Analyst, The</i> , 2012 , 137, 3091-8	5	49
753	Gas-phase oxirane addition to acylium ions on reaction with 1,3-dioxolanes elucidated by tandem and triple stage mass spectrometric experiments. <i>Organic Mass Spectrometry</i> , 1993 , 28, 679-687		49

752	Surface-Induced dissociation from a liquid surface. <i>Journal of the American Society for Mass Spectrometry</i> , 1993 , 4, 769-73	3.5	49
751	Silver ion affinities of alcohols as ordered by mass spectrometry/mass spectrometry. <i>Journal of the American Chemical Society</i> , 1982 , 104, 848-850	16.4	49
750	Direct mixture analysis by mass-analyzed ion kinetic energy spectrometry using negative chemical ionization. <i>Journal of the American Chemical Society</i> , 1978 , 100, 6045-6051	16.4	49
749	Differential Lipid Profiles of Normal Human Brain Matter and Gliomas by Positive and Negative Mode Desorption Electrospray Ionization - Mass Spectrometry Imaging. <i>PLoS ONE</i> , 2016 , 11, e0163180	3.7	49
748	Plasma induced oxidative cleavage of disulfide bonds in polypeptides during nanoelectrospray ionization. <i>Analytical Chemistry</i> , 2010 , 82, 2856-64	7.8	48
747	Redox transformations in desorption electrospray ionization. <i>International Journal of Mass Spectrometry</i> , 2009 , 280, 235-240	1.9	48
746	Rapid enantiomeric quantification of an antiviral nucleoside agent (D,L-FMAU, 2'-fluoro-5-methyl-beta,D,L-arabinofurano-syluracil) by mass spectrometry. <i>Journal of Medicinal Chemistry</i> , 2001 , 44, 3541-4	8.3	48
745	Electron impact studiesXII. <i>Tetrahedron</i> , 1968 , 24, 1875-1888	2.4	48
744	Analysis of pesticide residues by leaf spray mass spectrometry. <i>Analytical Methods</i> , 2012 , 4, 1913	3.2	47
743	Distinctive glycerophospholipid profiles of human seminoma and adjacent normal tissues by desorption electrospray ionization imaging mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2011 , 22, 1326-33	3.5	47
742	Synchronized inductive desorption electrospray ionization mass spectrometry. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2503-6	16.4	47
741	Characterization of a serial array of miniature cylindrical ion trap mass analyzers. <i>Rapid Communications in Mass Spectrometry</i> , 1999 , 13, 2444-9	2.2	47
740	Electrophilic aromatic chlorine cation (Cl ⁺) addition and CO ₂ substitution in the gas phase. <i>Journal of the American Chemical Society</i> , 1993 , 115, 1004-1014	16.4	47
739	High mass-resolution using a quadrupole ion-trap mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 1991 , 5, 327-329	2.2	47
738	Energy partitioning by mass spectrometry: Chloroalkanes and chloroalkenes. <i>Journal of Chemical Physics</i> , 1974 , 61, 1305-1314	3.9	47
737	Vapors from Ionic Liquids: Reconciling Simulations with Mass Spectrometric Data. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3435-41	6.4	46
736	Developmental phases of individual mouse preimplantation embryos characterized by lipid signatures using desorption electrospray ionization mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 404, 2915-26	4.4	46
735	Miniaturization of Mass Spectrometry Analysis Systems. <i>Journal of the Association for Laboratory Automation</i> , 2010 , 15, 433-439		46

734	Neutral fragment mass spectra via ambient thermal dissociation of peptide and protein ions. <i>Journal of the American Chemical Society</i> , 2007 , 129, 5880-6	16.4	46
733	Rectilinear ion trap mass spectrometer with atmospheric pressure interface and electrospray ionization source. <i>Analytical Chemistry</i> , 2006 , 78, 718-25	7.8	46
732	Interactive hyperspectral approach for exploring and interpreting DESI-MS images of cancerous and normal tissue sections. <i>Analyst, The</i> , 2012 , 137, 2374-80	5	45
731	Miniature mass spectrometer equipped with electrospray and desorption electrospray ionization for direct analysis of organics from solids and solutions. <i>International Journal of Mass Spectrometry</i> , 2011 , 306, 187-195	1.9	45
730	Ligand and metal-ion effects in metal-ion clusters used for chiral analysis of alpha-hydroxy acids by the kinetic method. <i>Analytical and Bioanalytical Chemistry</i> , 2002 , 373, 618-27	4.4	45
729	Energy-resolved collisional activation of dimethyl phosphonate and dimethyl phosphite ions in a quadrupole ion trap and a triple quadrupole mass spectrometer. <i>Organic Mass Spectrometry</i> , 1988 , 23, 6-9		45
728	Ion/surface collisions for distinction of isomeric [C ₆ H ₆].cntdot.+ and [C ₆ H ₆] ²⁺ ions. <i>Journal of the American Chemical Society</i> , 1988 , 110, 1343-1346	16.4	45
727	Studies in mass spectrometry. XXIX. Hydrogen scrambling in some bicyclic aromatic systems. Randomization over two rings. <i>Journal of the American Chemical Society</i> , 1968 , 90, 4064-4069	16.4	45
726	Direct identification of prohibited substances in cosmetics and foodstuffs using ambient ionization on a miniature mass spectrometry system. <i>Analytica Chimica Acta</i> , 2016 , 912, 65-73	6.6	44
725	Lipid characterization of individual porcine oocytes by dual mode DESI-MS and data fusion. <i>Analytica Chimica Acta</i> , 2014 , 848, 51-60	6.6	44
724	Gas-flow assisted ion transfer for mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2012 , 47, 201-7	2.2	44
723	Data quality in tissue analysis using desorption electrospray ionization. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 1949-61	4.4	44
722	Tissue imprint imaging by desorption electrospray ionization mass spectrometry. <i>Analytical Methods</i> , 2011 , 3, 1910	3.2	44
721	Stereoisomeric Distinction By the Kinetic Method: 2,3-Butanediol 1997 , 11, 71-74		44
720	Miniaturization and geometry optimization of a polymer-based rectilinear ion trap. <i>Analytical Chemistry</i> , 2007 , 79, 8076-82	7.8	44
719	Direct characterization of enzyme-substrate complexes by using electrosonic spray ionization mass spectrometry. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 913-6	16.4	44
718	Identification of protonated .beta.-hydroxycarbonyl compounds by reactive collisions in tandem mass spectrometry. <i>Journal of the American Chemical Society</i> , 1989 , 111, 4122-4123	16.4	44
717	Single oocyte and single embryo lipid analysis by desorption electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2012 , 47, 29-33	2.2	43

716	Gentle protein ionization assisted by high-velocity gas flow. <i>Analytical Chemistry</i> , 2005 , 77, 6174-83	7.8	43
715	Determination of the Gas-Phase Basicity of Betaine and Related Compounds Using the Kinetic Method. <i>Journal of the American Chemical Society</i> , 1996 , 118, 231-232	16.4	43
714	Possitive and negative secondary ion mass spectra and mass-analyzed ion kinetic energy spectra of some amides, amines and related compounds: Mechanisms in molecular sims. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1981 , 39, 231-255		43
713	Studies in mass spectrometry. XXVI. Hydrogen scrambling in some C ₆ H ₅ X.+ and C ₆ H ₅ + ions generated upon electron impact. Comparison of the spectra of diphenyl ether and diphenyl carbonate. <i>Journal of the American Chemical Society</i> , 1968 , 90, 2150-2155	16.4	43
712	The mass spectra of some alkyl and aryl oxazoles. <i>Organic Mass Spectrometry</i> , 1968 , 1, 13-29		43
711	Emerging capabilities of mass spectrometry for natural products. <i>Natural Product Reports</i> , 2014 , 31, 730-8	15.1	42
710	Data processing for 3D mass spectrometry imaging. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 1147-56	3.5	42
709	Collisional activation of pyrene and anthracene in an ion-trap mass spectrometer. <i>Journal of the American Chemical Society</i> , 1992 , 114, 2010-2016	16.4	42
708	Jet separator/membrane introduction mass spectrometry for on-line quantitation of volatile organic compounds in aqueous solutions. <i>Rapid Communications in Mass Spectrometry</i> , 1993 , 7, 935-942	2.2	42
707	Kinetic Energy Release in Unimolecular Ionic Reactions. Thermochemical Aspects. <i>Journal of Chemical Physics</i> , 1972 , 57, 2652-2658	3.9	42
706	Oseltamivir-resistant influenza A(H1N1)pdm09 viruses, United States, 2013-14. <i>Emerging Infectious Diseases</i> , 2015 , 21, 136-41	10.2	41
705	Radial Distributions and Ejection Times of Molecular Ions in an Ion Trap Mass Spectrometer: A Laser Tomography Study of Effects of Ion Density and Molecular Type. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 40-46		41
704	Broad-band fourier transform quadrupole ion trap mass spectrometry. <i>Analytical Chemistry</i> , 1996 , 68, 3314-20	7.8	41
703	Mass-spectrometric evidence for the formation of bromochloramine and N-bromo-N-chloromethylamine in aqueous solution. <i>Environmental Science & Technology</i> , 1993 , 27, 557-561	10.3	41
702	Alkaloids in whole plant material: direct analysis by kinetic energy spectrometry. <i>Science</i> , 1978 , 199, 978-80	3.5	41
701	-E Mass spectra. <i>Journal of the American Chemical Society</i> , 1973 , 95, 1695-1697	16.4	41
700	Chemical Synthesis Accelerated by Paper Spray: The Haloform Reaction. <i>Journal of Chemical Education</i> , 2016 , 93, 340-344	2.4	40
699	Multistep mass spectrometry methodology for direct characterization of polar lipids in green microalgae using paper spray ionization. <i>Analytical Chemistry</i> , 2012 , 84, 10576-85	7.8	40

- 698 Facility monitoring of chemical warfare agent simulants in air using an automated, field-deployable, miniature mass spectrometer. *Rapid Communications in Mass Spectrometry*, **2011**, 25, 1437-44 2.2 40
- 697 Formation of Nanometer-Scale Serine Clusters by Sonic Spray. *Journal of Physical Chemistry B*, **2004**, 108, 6105-6111 3.4 40
- 696 Occurrence and fragmentation of high-mass fullerenes. *Chemical Physics Letters*, **1991**, 183, 149-152 2.5 40
- 695 Direct detection and identification of volatile organic compounds dissolved in organic solvents by reversed-phase membrane introduction tandem mass spectrometry. *Analytical Chemistry*, **1992**, 64, 1205-1211 7.8 40
- 694 The measurement of appearance potentials of gaseous ions. *International Journal of Mass Spectrometry and Ion Physics*, **1975**, 18, 87-99 40
- 693 Metastable methane ions. Temperature dependence of the translational energy release. *The Journal of Physical Chemistry*, **1975**, 79, 859-862 40
- 692 Hand-held portable desorption atmospheric pressure chemical ionization ion source for in situ analysis of nitroaromatic explosives. *Analytical Chemistry*, **2015**, 87, 10047-55 7.8 39
- 691 In situ analysis of corrosion inhibitors using a portable mass spectrometer with paper spray ionization. *Analyst, The*, **2013**, 138, 3740-8 5 39
- 690 On-demand ambient ionization of picoliter samples using charge pulses. *Angewandte Chemie - International Edition*, **2015**, 54, 6893-5 16.4 39
- 689 In Situ Explosive Detection Using a Miniature Plasma Ion Source and a Portable Mass Spectrometer. *Analytical Letters*, **2012**, 45, 1440-1446 2.2 39
- 688 Isomeric differentiation and quantification of α -amino acid-containing tripeptides by the kinetic method: alkali metal-bound dimeric cluster ions. *International Journal of Mass Spectrometry*, **2004**, 231, 103-111 1.9 39
- 687 Surface modification and patterning using low-energy ion beams: Si-O bond formation at the vacuum/adsorbate interface. *Analytical Chemistry*, **2002**, 74, 317-23 7.8 39
- 686 Chemical modification of fluorinated self-assembled monolayer surfaces by low energy reactive ion bombardment. *Journal of the American Society for Mass Spectrometry*, **1995**, 6, 187-94 3.5 39
- 685 Relative carbonyl isocyanate cation [OCNCO]⁺ affinities of pyridines determined by the kinetic method using multiple-stage (MS³) mass spectrometry. *Journal of Mass Spectrometry*, **1995**, 30, 807-816 2.2 39
- 684 Collisions of fluorocarbon ions at solid surfaces: Electronic excitation, surface-induced dissociation and chemical sputtering. *Organic Mass Spectrometry*, **1993**, 28, 1021-1033 39
- 683 Ion internal energy selection through angle-resolved mass spectrometry. *International Journal of Mass Spectrometry and Ion Physics*, **1980**, 33, 231-241 39
- 682 Collision-induced dissociation of the lower alcohols. A thermochemical study. *Organic Mass Spectrometry*, **1975**, 10, 625-638 39
- 681 The enolic [C₅H₁₀O]⁺ and [C₃H₆O]⁺ ions formed from aliphatic ketones. *Organic Mass Spectrometry*, **1974**, 9, 1-11 39

680	Ambient ionization mass spectrometric analysis of human surgical specimens to distinguish renal cell carcinoma from healthy renal tissue. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 5407-14	4.4	39
679	Comparison of paper spray mass spectrometry analysis of dried blood spots from devices used for in-field collection of clinical samples. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 121-131	4.4	38
678	Peptide cross-linking at ambient surfaces by reactions of nanosprayed molecular cations. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9417-21	16.4	38
677	Ion soft landing using a rectilinear ion trap mass spectrometer. <i>Analytical Chemistry</i> , 2008 , 80, 6640-9	7.8	38
676	Glow discharge electron impact ionization source for miniature mass spectrometers. <i>Journal of Mass Spectrometry</i> , 2007 , 42, 675-80	2.2	38
675	Ion-molecule reactions and collision-activated dissociation of C ₄ H ₄ (+.) isomers: A case study in the use of the MS (3) capabilities of a pentaquadrupole mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 1992 , 3, 518-34	3.5	38
674	Large scale simulation of mass spectra recorded with a quadrupole ion trap mass spectrometer. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1993 , 123, 85-96		38
673	Ionization of quaternary nitrogen compounds by secondary ion mass spectrometry. <i>Journal of the American Chemical Society</i> , 1979 , 101, 501-502	16.4	38
672	Ion structural studies by ion kinetic energy spectrometry: [C ₇ H ₇] ⁺ , [C ₇ H ₈] ⁺ and [C ₇ H ₇ OCH ₃] ⁺ . <i>Organic Mass Spectrometry</i> , 1973 , 7, 1303-1312		38
671	Recognition and quantification of binary and ternary mixtures of isomeric peptides by the kinetic method: metal ion and ligand effects on the dissociation of metal-bound complexes. <i>Journal of the American Society for Mass Spectrometry</i> , 2003 , 14, 152-60	3.5	37
670	Rapid screening for taxanes by tandem mass spectrometry. <i>Analytical Chemistry</i> , 1992 , 64, 2313-5	7.8	37
669	Ion/surface collision phenomena in an improved tandem time-of-flight instrument. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1989 , 94, 1-14		37
668	Ultrasonic appearances associated with prostatic inflammation: a preliminary study. <i>Clinical Radiology</i> , 1984 , 35, 343-5	2.9	37
667	Performance of a hybrid mass spectrometer. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1985 , 65, 141-157		37
666	The shapes of metastable peaks. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1975 , 16, 225-242		37
665	Reaction Acceleration in Electrospray Droplets: Size, Distance, and Surfactant Effects. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 2022-2030	3.5	36
664	Direct analysis of camptothecin from <i>Nothapodytes nimmoniana</i> by desorption electrospray ionization mass spectrometry (DESI-MS). <i>Analyst, The</i> , 2011 , 136, 3066-8	5	36
663	Characterization of electrode surface roughness and its impact on ion trap mass analysis. <i>Journal of Mass Spectrometry</i> , 2009 , 44, 353-60	2.2	36

- 662 Enhanced ion signals in desorption electrospray ionization using surfactant spray solutions. *Journal of the American Society for Mass Spectrometry*, **2010**, 21, 1423-31 3.5 36
- 661 A rapid screening method for artemisinin and its congeners using ms/ms: search for new analogues in *Artemisia annua*. *Journal of Natural Products*, **1993**, 56, 552-63 4.9 36
- 660 Electron affinities of polycyclic aromatic hydrocarbons determined by the kinetic method. *Journal of Mass Spectrometry*, **1995**, 30, 1167-1173 2.2 36
- 659 Tandem mass spectrometry of prostaglandins: a comparison of an ion trap and a reversed geometry sector instrument. *Rapid Communications in Mass Spectrometry*, **1988**, 2, 105-9 2.2 36
- 658 The benzoyl ion. Thermochemistry and kinetic energy release. *Organic Mass Spectrometry*, **1976**, 11, 415-422 36
- 657 Fragmentation of even electron ions: Protonated amines and esters. *Organic Mass Spectrometry*, **1979**, 14, 556-561 36
- 656 Reaction Acceleration in Thin Films with Continuous Product Deposition for Organic Synthesis. *Angewandte Chemie - International Edition*, **2017**, 56, 9386-9390 16.4 35
- 655 Real-time sample analysis using a sampling probe and miniature mass spectrometer. *Analytical Chemistry*, **2015**, 87, 8867-73 7.8 35
- 654 Accelerated hydrazone formation in charged microdroplets. *Rapid Communications in Mass Spectrometry*, **2016**, 30, 1875-8 2.2 35
- 653 Mass Spectrometry in Organic Synthesis: Claisen-Schmidt Base-Catalyzed Condensation and Hammett Correlation of Substituent Effects. *Journal of Chemical Education*, **2014**, 91, 1985-1989 2.4 35
- 652 Reactions of organic ions at ambient surfaces in a solvent-free environment. *Journal of the American Society for Mass Spectrometry*, **2012**, 23, 842-9 3.5 35
- 651 Enabling quantitative analysis in ambient ionization mass spectrometry: internal standard coated capillary samplers. *Analytical Chemistry*, **2013**, 85, 5632-6 7.8 35
- 650 Direct detection of fatty acid ethyl esters using low temperature plasma (LTP) ambient ionization mass spectrometry for rapid bacterial differentiation. *Analyst, The*, **2011**, 136, 3091-7 5 35
- 649 Low-Energy Collisions of Group IIIA, IVA, VA, VIA, and VIIA Ions with fluoroalkyl SAM Surfaces: Reactions, Chemical Sputtering, and Mechanistic Implications. *The Journal of Physical Chemistry*, **1994**, 98, 9301-9311 35
- 648 Pulsed axial activation in the ion trap: A new method for performing tandem mass spectroscopy (MS/MS). *Rapid Communications in Mass Spectrometry*, **1992**, 6, 528-530 2.2 35
- 647 Experimental study of the potential energy surface of the protonated cyclohexene oxide/cyclohexanone system. Isomerization, dissociation, and ion-molecule reactions of the isolated ions in the gas phase. *Journal of the American Chemical Society*, **1989**, 111, 1654-1665 16.4 35
- 646 Effects of primary ion polyatomicity and kinetic energy on secondary ion yield and internal energy in sims. *International Journal of Mass Spectrometry and Ion Processes*, **1990**, 97, 35-45 35
- 645 Control of energy deposition by impact parameter in polyatomic ion collisions. *Journal of the American Chemical Society*, **1980**, 102, 3997-4000 16.4 35

644	Chlorine isotope effects in mass spectrometry by multiple reaction monitoring. <i>The Journal of Physical Chemistry</i> , 1978 , 82, 2359-2362		35
643	An investigation into the mechanism of gas-phase tautomerism using mass specrometry. <i>Tetrahedron</i> , 1971 , 27, 4407-4415	2.4	35
642	Characterization of a discontinuous atmospheric pressure interface. Multiple ion introduction pulses for improved performance. <i>International Journal of Mass Spectrometry</i> , 2009 , 283, 30-34	1.9	34
641	Quantitative determination of the enantiomeric composition of thalidomide solutions by electrospray ionization tandem mass spectrometry. <i>Chemical Communications</i> , 2002 , 2242-3	5.8	34
640	Control of chemical mass shifts in the quadrupole ion trap through selection of resonance ejection working point and rf scan direction. <i>Analytical Chemistry</i> , 2000 , 72, 2677-83	7.8	34
639	Single-sided membrane introduction mass spectrometry for on-line determination of semi-volatile organic compounds in air. <i>Analyst, The</i> , 2001 , 126, 1980-4	5	34
638	Characterization of organic dyes by secondary ion mass spectrometry. <i>Analytical Chemistry</i> , 1983 , 55, 2260-2266	7.8	34
637	Desorption ionization mass spectrometry: secondary ion and laser desorption mass spectra of transition-metal complexes of .beta.-diketones. <i>Inorganic Chemistry</i> , 1982 , 21, 2597-2602	5.1	34
636	Anomalous metastable peaks. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1975 , 16, 348-352		34
635	Arrays of low-temperature plasma probes for ambient ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013 , 27, 135-42	2.2	33
634	Trace detection of non-uniformly distributed analytes on surfaces using mass transfer and large-area desorption electrospray ionization (DESI) mass spectrometry. <i>Analyst, The</i> , 2010 , 135, 1953-60	5	33
633	Charge retention by peptide ions soft-landed onto self-assembled monolayer surfaces. <i>International Journal of Mass Spectrometry</i> , 2007 , 265, 237-243	1.9	33
632	Ion trajectory simulation for electrode configurations with arbitrary geometries. <i>Journal of the American Society for Mass Spectrometry</i> , 2006 , 17, 1216-28	3.5	33
631	Direct analysis of volatile organic compounds in human breath using a miniaturized cylindrical ion trap mass spectrometer with a membrane inlet. <i>Rapid Communications in Mass Spectrometry</i> , 2002 , 16, 2370-3	2.2	33
630	Cylindrical ion trap array with mass selection by variation in trap dimensions. <i>Analytical Chemistry</i> , 2000 , 72, 5079-86	7.8	33
629	Low-energy collisional activation of polyatomic ions with different target gases. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1989 , 90, 71-83		33
628	Tandem mass spectrometry using an in-line ion-surface collision device. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1990 , 103, 1-19		33
627	Membrane Introduction Mass Spectrometry		33

626	Analysis of gaseous toxic industrial compounds and chemical warfare agent simulants by atmospheric pressure ionization mass spectrometry. <i>Analyst, The</i> , 2006 , 131, 579-89	5	32
625	Chiral quantification of D-, L-, and meso-tartaric acid mixtures using a mass spectrometric kinetic method. <i>Chemical Communications</i> , 2003 , 136-7	5.8	32
624	Direct analysis of semivolatile organic compounds in air by atmospheric pressure chemical ionization mass spectrometry. <i>Analytical Chemistry</i> , 2001 , 73, 5061-5	7.8	32
623	Chemical modification of fluorinated self-assembled monolayer surfaces using low-energy ion beams for halogen and pseudohalogen transfer 1999 , 34, 354-363		32
622	Ion/Ion Collisions Leading to Formation of C-Cl Bonds at Surfaces: An Interfacial Kolbe Reaction. <i>Journal of the American Chemical Society</i> , 1999 , 121, 9762-9763	16.4	32
621	Ion/surface interactions as a tool for characterizing isomers: [C ₂ H ₄ O] ⁺ ions. <i>Journal of the American Chemical Society</i> , 1987 , 109, 7597-7602	16.4	32
620	Secondary ion mass spectra of coordination compounds and organometallics. <i>Journal of the American Chemical Society</i> , 1981 , 103, 2583-2588	16.4	32
619	Identification of barbiturates by chemical ionization and mass-analyzed ion kinetic energy spectrometry. <i>Analytical Chemistry</i> , 1977 , 49, 435-42	7.8	32
618	Metastable transitions in the mass spectra of ketals and ketones. Competition between loss of small and large radicals. <i>Organic Mass Spectrometry</i> , 1969 , 2, 985-995		32
617	The characteristics of oxime ethers upon electron-impact. <i>Organic Mass Spectrometry</i> , 1971 , 5, 687-696		32
616	Novel Selectivity-Based Forensic Toxicological Validation of a Paper Spray Mass Spectrometry Method for the Quantitative Determination of Eight Amphetamines in Whole Blood. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 2665-2676	3.5	31
615	Facility monitoring of toxic industrial compounds in air using an automated, fieldable, miniature mass spectrometer. <i>Analyst, The</i> , 2010 , 135, 994-1003	5	31
614	Serinooctamere: Clusterbildung, Reaktionen und Auswirkungen auf die Homochiralität von Biomolekülen. <i>Angewandte Chemie</i> , 2006 , 118, 568-583	3.6	31
613	Enhanced desorption ionization using oxidizing electrosprays. <i>Journal of the American Society for Mass Spectrometry</i> , 2006 , 17, 1091-1095	3.5	31
612	Thermal formation of serine octamer ions. <i>Chemical Communications</i> , 2004 , 444-5	5.8	31
611	Multiparticle Simulation of Ion Injection into the Quadrupole Ion Trap Under the Influence of Helium Buffer Gas Using Short Injection Times and DC Pulse Potentials 1996 , 10, 742-750		31
610	Determination of positions, velocities, and kinetic energies of resonantly excited ions in the quadrupole ion trap mass spectrometer by laser photodissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 1993 , 4, 792-7	3.5	31
609	Competitive dehydration and deamination of .alpha.,.omega.-amino alcohols and .alpha.,.omega.-amino acids in the gas phase. <i>Journal of Organic Chemistry</i> , 1985 , 50, 1287-1291	4.2	31

608	Selected fragment scans of mass spectrometers in direct mixture analysis. <i>Journal of the American Chemical Society</i> , 1979 , 101, 6781-6783	16.4	31
607	Can Accelerated Reactions in Droplets Guide Chemistry at Scale?. <i>European Journal of Organic Chemistry</i> , 2016 , 2016, 5480-5484	3.2	31
606	Accelerated Forced Degradation of Pharmaceuticals in Levitated Microdroplet Reactors. <i>Chemistry - A European Journal</i> , 2018 , 24, 7349-7353	4.8	30
605	Rapid discrimination of bacteria using a miniature mass spectrometer. <i>Analyst, The</i> , 2016 , 141, 1633-6	5	30
604	Mass Spectrometry for Synthesis and Analysis. <i>Annual Review of Analytical Chemistry</i> , 2018 , 11, 1-28	12.5	30
603	Development of a mass spectrometry sampling probe for chemical analysis in surgical and endoscopic procedures. <i>Analytical Chemistry</i> , 2013 , 85, 11843-50	7.8	30
602	Improved detection of low vapor pressure compounds in air by serial combination of single-sided membrane introduction with fiber introduction mass spectrometry (SS-MIMS-FIMS). <i>Analyst, The</i> , 2005 , 130, 679-86	5	30
601	Chiral and isomeric analysis by electrospray ionization and sonic spray ionization using the fixed-ligand kinetic method. <i>European Journal of Mass Spectrometry</i> , 2005 , 11, 231-42	1.1	30
600	Soft landing of ions onto self-assembled hydrocarbon and fluorocarbon monolayer surfaces. <i>International Journal of Mass Spectrometry</i> , 1999 , 182-183, 423-435	1.9	30
599	SiCl ₃ (+) and SiCl (+) affinities for pyridines determined by using the kinetic method with multiple stage mass spectrometry: Agostic effects in the gas phase. <i>Journal of the American Society for Mass Spectrometry</i> , 1996 , 7, 198-204	3.5	30
598	Aromatic hydrocarbon derivatives of fullerenes. <i>Rapid Communications in Mass Spectrometry</i> , 1991 , 5, 472-474	2.2	30
597	Charge stripping and the site of cationization of substituted aromatic compounds. <i>Organic Mass Spectrometry</i> , 1986 , 21, 1-5		30
596	Analysis of natural products by tandem mass spectrometry employing reactive collisions with ethyl vinyl ether. <i>Organic Mass Spectrometry</i> , 1988 , 23, 10-15		30
595	Isomeric structure distinction using energy and angular resolution: C ₃ H ₆ O ⁺ . <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1984 , 62, 219-225		30
594	Ion kinetic energy spectrometry. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1976 , 19, 107-137		30
593	Substituent effects in mass spectrometry. Mass spectra of substituted phenyl benzyl ethers. <i>Journal of the American Chemical Society</i> , 1969 , 91, 2727-2732	16.4	30
592	Charge Localization: Doubly-Charged Ion Reactions in Toluene. <i>Organic Mass Spectrometry</i> , 1972 , 6, 741-747		30
591	Experimental Characterization of Secular Frequency Scanning in Ion Trap Mass Spectrometers. <i>Journal of the American Society for Mass Spectrometry</i> , 2016 , 27, 1243-55	3.5	30

590	Ion trap mass analysis at high pressure: an experimental characterization. <i>Journal of Mass Spectrometry</i> , 2010 , 45, 26-34	2.2	29
589	Ambient Eberlin reactions via desorption electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2006 , 41, 1242-6	2.2	29
588	Mass shifts due to ion/ion interactions in a quadrupole ion-trap mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 1994 , 8, 451-454	2.2	29
587	Trace level analysis of volatile and semi-volatile organic compounds in water using a membrane/jet separator interfaced to an ion trap mass spectrometer. <i>Analytica Chimica Acta</i> , 1995 , 310, 387-398	6.6	29
586	Microporous membrane introduction mass spectrometry with solvent chemical ionization and glow discharge for the direct detection of volatile organic compounds in aqueous solution. <i>Analytica Chimica Acta</i> , 1992 , 266, 1-12	6.6	29
585	On-line monitoring of chloramine reactions by membrane introduction mass spectrometry. <i>Talanta</i> , 1991 , 38, 195-200	6.2	29
584	Utilization of natural isotopic abundance ratios in tandem mass spectrometry. <i>Analytical Chemistry</i> , 1983 , 55, 762-764	7.8	29
583	Rapid analysis of complex mixtures by mass spectrometry/mass spectrometry. <i>Analytical Chemistry</i> , 1980 , 52, 165-167	7.8	29
582	Angle-resolved mass spectrometry. Target effects upon energy deposition. <i>The Journal of Physical Chemistry</i> , 1981 , 85, 2335-2340		29
581	Rapid detection of urushiol allergens of Toxicodendron genus using leaf spray mass spectrometry. <i>Analyst, The</i> , 2012 , 137, 1082-4	5	28
580	In situ Raman spectroscopy of surfaces modified by ion soft landing. <i>Analyst, The</i> , 2012 , 137, 1363-9	5	28
579	Membrane Introduction Mass Spectrometry in a Pilot Plant: On-line Monitoring of Fermentation Broths 1997 , 11, 363-367		28
578	Proton affinity of deuterated acetonitrile estimated by the kinetic method with full entropy analysis. <i>International Journal of Mass Spectrometry</i> , 2001 , 210-211, 133-146	1.9	28
577	Organic chloramine analysis and free chlorine quantification by electrospray and atmospheric pressure chemical ionization tandem mass spectrometry. <i>Analytical Chemistry</i> , 2001 , 73, 4522-9	7.8	28
576	Theoretical analysis of probe dynamics in flow injection/membrane introduction mass spectrometry. <i>Analytical Chemistry</i> , 1991 , 63, 2460-2465	7.8	28
575	An exceedingly simple mass spectrometer interface with application to reaction monitoring and environmental analysis. <i>Analytical Chemistry</i> , 1985 , 57, 1153-1155	7.8	28
574	Direct characterization of nutmeg constituents by mass spectrometry-mass spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 1982 , 30, 495-504	5.7	28
573	Excitation in ion/molecule collisions. A study of protonated aromatic molecules by ion kinetic energy spectrometry. <i>Organic Mass Spectrometry</i> , 1978 , 13, 106-110		28

572	The mass spectra of acridones. <i>Australian Journal of Chemistry</i> , 1967 , 20, 1179	1.2	28
571	Analysis of human gliomas by swab touch spray-mass spectrometry: applications to intraoperative assessment of surgical margins and presence of oncometabolites. <i>Analyst, The</i> , 2017 , 142, 4058-4066	5	27
570	Carbon-carbon bond activation in saturated hydrocarbons by field-assisted nitrogen fixation. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1040-3	16.4	27
569	Biogenic aldehyde determination by reactive paper spray ionization mass spectrometry. <i>Analytica Chimica Acta</i> , 2015 , 860, 37-42	6.6	27
568	Imaging of Surface Charge and the Mechanism of Desorption Electrospray Ionization Mass Spectrometry. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 5331-5337	3.8	27
567	Redox chemistry in thin layers of organometallic complexes prepared using ion soft landing. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 267-75	3.6	27
566	Angular dependence of internal energy distributions of activated Fe(CO) ₅ and W(CO) ₆ ions. The contributions of vibrational and electronic excitation mechanisms in kiloelectron volt collisions. <i>Journal of the American Chemical Society</i> , 1990 , 112, 119-126	16.4	27
565	Characterization of an alkylated dinucleotide by desorption chemical ionization and tandem mass spectrometry. <i>Biomedical & Environmental Mass Spectrometry</i> , 1987 , 14, 17-22		27
564	Modified bases characterized in intact DNA by mass-analyzed ion kinetic energy spectrometry. <i>Science</i> , 1979 , 203, 1249-51	33.3	27
563	Ambient ionisation mass spectrometry for lipid profiling and structural analysis of mammalian oocytes, preimplantation embryos and stem cells. <i>Reproduction, Fertility and Development</i> , 2015 , 27, 621-37	1.8	26
562	Miniature Monolithic Rectilinear Ion Trap Arrays by Stereolithography on Printed Circuit Board. <i>Journal of Microelectromechanical Systems</i> , 2010 , 19, 951-960	2.5	26
561	Sampling wand for an ion trap mass spectrometer. <i>Analytical Chemistry</i> , 2011 , 83, 1857-61	7.8	26
560	Pharmaceutical cleaning validation using non-proximate large-area desorption electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 131-7	2.2	26
559	Ion/surface reactions, surface-induced dissociation and surface modification resulting from hyperthermal collisions of OCNCO ⁺ , OCNCS ⁺ , (CH ₃) ₂ SiNCO ⁺ , and (CH ₃) ₂ SiNCS ⁺ with a fluorinated self-assembled monolayer surface. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997 , 168, 63-105		26
558	Rapid hydrocarbon analysis using a miniature rectilinear ion trap mass spectrometer. <i>Analyst, The</i> , 2008 , 133, 1064-71	5	26
557	Improvements in quantitative chiral determinations using the mass spectrometric kinetic method. <i>International Journal of Mass Spectrometry</i> , 2007 , 267, 199-204	1.9	26
556	External interface for trap-and-release membrane introduction mass spectrometry applied to the detection of inorganic chloramines and chlorobenzenes in water. <i>Rapid Communications in Mass Spectrometry</i> , 2001 , 15, 2290-5	2.2	26
555	Proton Affinity and Gas-Phase Basicity of Urea. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 2988-2994	2.8	26

554	Ionization energy determination by the kinetic method. <i>Analytical Chemistry</i> , 1996 , 68, 4254-6	7.8	26
553	Gas-Phase Molecular, Molecular Pair, and Molecular Triplet Fe ⁺ Affinities of Pyridines. <i>Journal of the American Chemical Society</i> , 1996 , 118, 6010-6019	16.4	26
552	On-Line Monitoring of the Photolysis of Benzyl Acetate and 3,5-Dimethoxybenzyl Acetate by Membrane Introduction Mass Spectrometry. <i>Journal of Organic Chemistry</i> , 1996 , 61, 6627-6632	4.2	26
551	Efficient trapping and collision-induced dissociation of high-mass cluster ions using mixed target gases in the quadrupole ion trap. <i>Rapid Communications in Mass Spectrometry</i> , 1992 , 6, 520-523	2.2	26
550	Building mass spectrometers and a philosophy of research. <i>Journal of the American Society for Mass Spectrometry</i> , 1990 , 1, 119-28	3.5	26
549	Mapping of cocaine and cinnamoylcocaine in whole coca plant tissues by MIKES. <i>Journal of the American Chemical Society</i> , 1979 , 101, 3400-3402	16.4	26
548	Determination of polycyclic aromatic hydrocarbons in solvent-refined coal by negative chemical ionization-charge inversion mass spectrometry/mass spectrometry. <i>Analytical Chemistry</i> , 1981 , 53, 723-726	7.8	26
547	Identification of alkaloids in crude extracts by mass-analyzed ion kinetic energy spectrometry. <i>Journal of Organic Chemistry</i> , 1977 , 42, 4161-4162	4.2	26
546	Quantitative Swab Touch Spray Mass Spectrometry for Oral Fluid Drug Testing. <i>Analytical Chemistry</i> , 2019 , 91, 7450-7457	7.8	25
545	Multiple reaction monitoring (MRM)-profiling for biomarker discovery applied to human polycystic ovarian syndrome. <i>Rapid Communications in Mass Spectrometry</i> , 2017 , 31, 1462-1470	2.2	25
544	Accelerated Carbon-Carbon Bond-Forming Reactions in Preparative Electrospray. <i>Angewandte Chemie</i> , 2012 , 124, 12002-12005	3.6	25
543	Circular arrays of polymer-based miniature rectilinear ion traps. <i>Analyst, The</i> , 2009 , 134, 1338-47	5	25
542	Alkali metal-cationized serine clusters studied by sonic spray ionization tandem mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2007 , 18, 856-68	3.5	25
541	Mass spectra of proteins and other biomolecules recorded using a handheld instrument. <i>International Journal of Mass Spectrometry</i> , 2008 , 278, 166-169	1.9	25
540	Chiral recognition by proton transfer reactions with optically active amines and alcohols. <i>Chemical Communications</i> , 2004 , 2740-1	5.8	25
539	A model for energy transfer in inelastic molecular collisions applicable at steady state or non-steady state and for an arbitrary distribution of collision energies. <i>Journal of the American Society for Mass Spectrometry</i> , 2003 , 14, 1348-59	3.5	25
538	Ketalization of phosphonium ions by 1,4-dioxane: selective detection of the chemical warfare agent simulant DMMP in mixtures using ion/molecule reactions. <i>Journal of the American Society for Mass Spectrometry</i> , 2003 , 14, 182-8	3.5	25
537	Ion/molecule reactions performed in a miniature cylindrical ion trap mass spectrometer. <i>Analyst, The</i> , 2003 , 128, 1112-8	5	25

- 536 Collisions of Silylium Cations with Hydroxyl-Terminated and Other Self-Assembled Monolayer Surfaces: Reactions, Dissociation, and Surface Characterization. *Journal of Physical Chemistry B*, **2000**, 104, 11230-11237 3.4 25
- 535 Synthesis of B- and P-Heterocycles by Reaction of Cyclic Acetals and Ketals with Borinium and Phosphonium Ions. *Journal of Organic Chemistry*, **1999**, 64, 3213-3223 4.2 25
- 534 Polar [4+2(+)] diels-alder cycloaddition to nitrilium and immonium ions in the gas phase: Applications of multiple stage mass spectrometry in a pentaquadrupole instrument. *Journal of the American Society for Mass Spectrometry*, **1995**, 6, 1-10 3.5 25
- 533 Affinity membrane introduction mass spectrometry. *Analytical Chemistry*, **1995**, 67, 724-728 7.8 25
- 532 On-line flow injection analysis of volatile organic compounds in seawater by membrane introduction mass spectrometry. *Talanta*, **1995**, 42, 1325-34 6.2 25
- 531 Characterization of organic cations of synthetic interest by desorption ionization and tandem mass spectrometry. *Journal of Organic Chemistry*, **1984**, 49, 764-769 4.2 25
- 530 Surface-enhanced Raman scattering from sputter-deposited silver surfaces. *Analytical Chemistry*, **1986**, 58, 1290-1294 7.8 25
- 529 Analysis of coal liquids by mass-analyzed ion kinetic energy spectrometry. *Analytical Chemistry*, **1979**, 51, 1849-1852 7.8 25
- 528 Detection limits for organic salts in secondary ion mass spectrometry. *Analytica Chimica Acta*, **1980**, 118, 169-174 6.6 25
- 527 Identification of modified nucleosides by secondary-ion and laser-desorption mass spectrometry. *Journal of Organic Chemistry*, **1981**, 46, 4765-4769 4.2 25
- 526 Mass spectrometry/mass spectrometry: capabilities and applications to fuel-related materials. *Fuel*, **1983**, 62, 829-834 7.1 25
- 525 Charge exchange of rare gas ions: An ion kinetic energy study. *Journal of Chemical Physics*, **1975**, 62, 3855-3863 7.3 25
- 524 Alkane elimination in mass spectrometry. A counterpart to the McLafferty rearrangement. *Journal of the American Chemical Society*, **1976**, 98, 2011-2013 16.4 25
- 523 Kinetic Energy Release in the Dissociation of Some Simple Molecular Ions. Water and Hydrogen Sulfide. *Journal of Chemical Physics*, **1972**, 57, 3207-3212 3.9 25
- 522 Studies in mass spectrometry. *Tetrahedron*, **1967**, 23, 3173-3181 2.4 25
- 521 Comprehensive lipid profiling of early stage oocytes and embryos by MRM profiling. *Journal of Mass Spectrometry*, **2018**, 53, 1247-1252 2.2 25
- 520 On-Line Reaction Monitoring and Mechanistic Studies by Mass Spectrometry: Negishi Cross-Coupling, Hydrogenolysis, and Reductive Amination. *Angewandte Chemie*, **2014**, 126, 6041-6045 3.6 24
- 519 Negatively-charged halide adducts of homochiral serine octamers. *Journal of Physical Chemistry B*, **2005**, 109, 4748-53 3.4 24

518	Silylation of an OH-terminated self-assembled monolayer surface through low-energy collisions of ions: a novel route to synthesis and patterning of surfaces. <i>Journal of Mass Spectrometry</i> , 2002 , 37, 591-602	2.3	24
517	Solid phase micro-extraction in a miniature ion trap mass spectrometer. <i>Analyst, The</i> , 2003 , 128, 1119-225		24
516	On-line monitoring with feedback control of bioreactors using a high ethanol tolerance yeast by membrane introduction mass spectrometry. <i>Analytica Chimica Acta</i> , 1995 , 316, 269-276	6.6	24
515	Pulsed gas introduction into quadrupole ion traps. <i>Journal of the American Society for Mass Spectrometry</i> , 1990 , 1, 308-11	3.5	24
514	Thermochemical vs. kinetic control of reactions in an ion trap mass spectrometer. <i>Organic Mass Spectrometry</i> , 1988 , 23, 54-56		24
513	The effects of primary ion energy on the extent of fragmentation in desorption ionization mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1988 , 84, 89-100		24
512	Formation of metal chelates in secondary ion mass spectrometry. Comparisons with solution chemistry. <i>Journal of the American Chemical Society</i> , 1979 , 101, 499-501	16.4	24
511	Characterization of the chemical ionization condensation products for the benzyl acetate system using mass-analyzed ion kinetic energy spectrometry. <i>Journal of the American Chemical Society</i> , 1979 , 101, 3162-3168	16.4	24
510	MINDO/3 calculation of the potential energy surface for C ₃ H ₅ ⁺ -iC ₃ H ₃ ⁺ + H ₂ as applied to understanding energy partitioning accompanying fragmentation. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1978 , 27, 227-237		24
509	Ion Separation in Air Using a Three-Dimensional Printed Ion Mobility Spectrometer. <i>Analytical Chemistry</i> , 2017 , 89, 5058-5065	7.8	23
508	Rapid On-Demand Synthesis of Lomustine under Continuous Flow Conditions. <i>Organic Process Research and Development</i> , 2019 , 23, 334-341	3.9	23
507	Using ambient ion beams to write nanostructured patterns for surface enhanced Raman spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12528-31	16.4	23
506	Development of miniature mass spectrometry systems for bioanalysis outside the conventional laboratories. <i>Bioanalysis</i> , 2014 , 6, 1497-508	2.1	23
505	Characteristics of a broad-band Fourier transform ion trap mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 1998 , 177, 91-104	1.9	23
504	Resonant ac dipolar excitation for ion motion control in the Orbitrap mass analyzer. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 2682-9	2.8	23
503	Improved accuracy of mass measurement with a quadrupole ion-trap mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 1992 , 6, 524-527	2.2	23
502	Observation of sequence-specific peptide fragmentation using extended tandem mass spectrometry experiments. <i>Rapid Communications in Mass Spectrometry</i> , 1989 , 3, 305-309	2.2	23
501	Fragmentation and structure of C ₂ H ₃ S ⁺ ions. <i>Journal of the American Chemical Society</i> , 1989 , 111, 859-865	6.4	23

500	Energetics of retro-Diels-Alder fragmentation in limonene as characterized by surface-induced dissociation, and energy- and angle-resolved mass spectrometry. <i>Organic Mass Spectrometry</i> , 1988 , 23, 585-593		23
499	Enhanced ionization of organic salts in secondary-ion mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1983 , 51, 225-233		23
498	Chemical modification of nucleic acids. Methylation of calf thymus DNA investigated by mass spectrometry and liquid chromatography. <i>Biological Mass Spectrometry</i> , 1985 , 12, 309-18		23
497	Energy partitioning accompanying fragmentation of protonated methanol. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1979 , 30, 83-92		23
496	Kinetic energy release in metastable ion transitions. A study by ion kinetic energy spectrometry and rkm theory. <i>Organic Mass Spectrometry</i> , 1975 , 10, 273-288		23
495	Electron impact studiesIX. <i>Tetrahedron</i> , 1967 , 23, 3743-3752	2.4	23
494	Single analyzer precursor scans using an ion trap. <i>Rapid Communications in Mass Spectrometry</i> , 2016 , 30, 800-4	2.2	23
493	Organische Reaktionen in Mikrotröpfchen: Analyse von Reaktionsbeschleunigungen durch Massenspektrometrie. <i>Angewandte Chemie</i> , 2016 , 128, 13152-13166	3.6	23
492	Accelerated reactions of amines with carbon dioxide driven by superacid at the microdroplet interface. <i>Chemical Science</i> , 2020 , 12, 2242-2250	9.4	23
491	Ion Mobility-Mass Spectrometry Using a Dual-Gated 3D Printed Ion Mobility Spectrometer. <i>Analytical Chemistry</i> , 2018 , 90, 13265-13272	7.8	23
490	Mass spectrometric directed system for the continuous-flow synthesis and purification of diphenhydramine. <i>Chemical Science</i> , 2017 , 8, 4363-4370	9.4	22
489	Identification and Confirmation of Fentanyl on Paper using Portable Surface Enhanced Raman Spectroscopy and Paper Spray Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020 , 31, 735-741	3.5	22
488	In situ SIMS analysis and reactions of surfaces prepared by soft landing of mass-selected cations and anions using an ion trap mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2009 , 20, 949-56	3.5	22
487	Carbohydrate and steroid analysis by desorption electrospray ionization mass spectrometry. <i>Chemical Communications</i> , 2008 , 2674-6	5.8	22
486	Novel linear ion trap mass analyzer composed of four planar electrodes. <i>Journal of the American Society for Mass Spectrometry</i> , 2006 , 17, 631-639	3.5	22
485	Serine Octamer Reactions: Indicators of Prebiotic Relevance. <i>Angewandte Chemie</i> , 2003 , 115, 3645-3647	3.6	22
484	Non-destructive detection of ions in a quadrupole ion trap using a d.c. pulse to force coherent ion motion: a simulation study. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995 , 146-147, 147-163		22
483	Determination of taxanes in <i>Taxus brevifolia</i> extracts by tandem mass spectrometry and high-performance liquid chromatography. <i>Journal of Natural Products</i> , 1994 , 57, 277-86	4.9	22

482	Relative cyanide cation (+CN) affinities of pyridines determined by the kinetic method using multiple-stage (MS3) mass spectrometry. <i>Journal of Mass Spectrometry</i> , 1995 , 30, 184-193	2.2	22
481	XeF(+), IF (+), and other unusual ions generated by reactions of hyperthermal ion beams at self-assembled monolayer surfaces. <i>Journal of the American Society for Mass Spectrometry</i> , 1993 , 4, 938-945	2.5	22
480	Applications of linked scan procedures in investigating polyatomic ion/surface interactions. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1985 , 67, 295-303		22
479	Angle resolved mass spectrometry with a reversed geometry spectrometer. <i>Analytical Chemistry</i> , 1980 , 52, 679-682	7.8	22
478	Charge inversion of the halogen ions. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1975 , 16, 417-429		22
477	Use of metastable peak shapes in determining ring size in cyclic rearrangements in the mass spectrometer. <i>Organic Mass Spectrometry</i> , 1973 , 7, 785-794		22
476	High-Throughput Label-Free Enzymatic Assays Using Desorption Electrospray-Ionization Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20459-20464	16.4	22
475	Linear mass scans in quadrupole ion traps using the inverse Mathieu q scan. <i>Rapid Communications in Mass Spectrometry</i> , 2016 , 30, 2369-2378	2.2	22
474	Miniature mass analyzers 2000 , 35, 659		22
473	Characteristic lipid profiles of canine non-Hodgkin's lymphoma from surgical biopsy tissue sections and fine needle aspirate smears by desorption electrospray ionization--mass spectrometry. <i>Analyst</i> , 2015 , 140, 6321-9	5	21
472	Cholesterol Sulfonation Enzyme, SULT2B1b, Modulates AR and Cell Growth Properties in Prostate Cancer. <i>Molecular Cancer Research</i> , 2016 , 14, 776-86	6.6	21
471	Hand-held mass spectrometer for environmentally relevant analytes using a variety of sampling and ionization methods. <i>European Journal of Mass Spectrometry</i> , 2010 , 16, 11-20	1.1	21
470	Differentiation of isomeric C ₃ H ₄ ⁺ ions and T ⁻ iV energy partitioning in surface-induced dissociation. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997 , 167-168, 525-539		21
469	Atmospheric pressure Eberlin transacetalization reactions in the heterogeneous liquid/gas phase. <i>International Journal of Mass Spectrometry</i> , 2006 , 253, 281-287	1.9	21
468	Chiral Transmission between Amino Acids: Chirally Selective Amino Acid Substitution in the Serine Octamer as a Possible Step in Homochirogenesis. <i>Angewandte Chemie</i> , 2002 , 114, 1797-1800	3.6	21
467	Mass Spectrometric Profiling of Intact Biological Tissue by Using Desorption Electrospray Ionization. <i>Angewandte Chemie</i> , 2005 , 117, 7256-7259	3.6	21
466	Reactivity of acetonide anion with nitroaromatics: an atmospheric pressure chemical ionization study. <i>Rapid Communications in Mass Spectrometry</i> , 2005 , 19, 3493-3499	2.2	21
465	Covalent chemical modification of self- assembled fluorocarbon monolayers by low- energy CH ₂ Br ₂ ⁺ ions: a combined ion/surface scattering and X-ray photoelectron spectroscopic investigation 1999 , 13, 986-993		21

- 464 Adsorbate Geometry Distinction in Arenethiols by Ion/Surface Reactive Collisions. *Journal of Physical Chemistry B*, **1999**, 103, 5304-5310 3.4 21
- 463 A sector/ion trap hybrid mass spectrometer of BE/trap configuration. *International Journal of Mass Spectrometry and Ion Processes*, **1990**, 98, 209-224 21
- 462 Desorption ionization mass spectrometry. *Tetrahedron*, **1983**, 39, 591-597 2.4 21
- 461 Matrix enhanced laser desorption in mass spectrometry and tandem mass spectrometry. *Biological Mass Spectrometry*, **1985**, 12, 159-162 21
- 460 A double quadrupole for mass spectrometry/mass spectrometry. *Analytica Chimica Acta*, **1980**, 119, 129-135 21
- 459 Site of protonation and bifunctional group interactions in α -hydroxyalkylamines. *Organic Mass Spectrometry*, **1981**, 16, 176-179 21
- 458 High and low energy collision mass spectrometry/mass spectrometry of aza and amino polynuclear aromatic compounds in coal-derived liquids. *Analytical Chemistry*, **1982**, 54, 2215-2219 7.8 21
- 457 Simulated MIKE spectra from a conventional double focusing mass spectrometer. *International Journal of Mass Spectrometry and Ion Physics*, **1976**, 21, 93-101 21
- 456 Direct mass spectrometric mixture analysis by negative chemical ionization/mass-analyzed ion kinetic energy spectrometry. *Analytical Chemistry*, **1978**, 50, 1222-1223 7.8 21
- 455 Isotope effects upon hydrogen atom loss from molecular ions. *Organic Mass Spectrometry*, **1973**, 7, 193-201 21
- 454 Small kinetic energy releases by predissociating metastable ions. *Chemical Physics Letters*, **1974**, 26, 131-133 21
- 453 Electron impact studies. XI. Mass spectra of aromatic azoxy compounds. Skeletal rearrangement upon electron impact. *Australian Journal of Chemistry*, **1967**, 20, 1601 1.2 21
- 452 Calibration procedure for secular frequency scanning in ion trap mass spectrometers. *Rapid Communications in Mass Spectrometry*, **2016**, 30, 1190-1196 2.2 21
- 451 Quantum Mechanical Modeling of Reaction Rate Acceleration in Microdroplets. *Journal of Physical Chemistry A*, **2020**, 124, 4984-4989 2.8 20
- 450 Multistep Flow Synthesis of Diazepam Guided by Droplet-Accelerated Reaction Screening with Mechanistic Insights from Rapid Mass Spectrometry Analysis. *Organic Process Research and Development*, **2017**, 21, 1566-1570 3.9 20
- 449 Discrimination of *Candida* species by paper spray mass spectrometry. *International Journal of Mass Spectrometry*, **2015**, 378, 288-293 1.9 20
- 448 Hydrocarbon analysis using desorption atmospheric pressure chemical ionization. *International Journal of Mass Spectrometry*, **2013**, 345-347, 80-88 1.9 20
- 447 Vibrational spectroscopy and mass spectrometry for characterization of soft landed polyatomic molecules. *Analytical Chemistry*, **2011**, 83, 5114-21 7.8 20

446	Gas-phase reactions for selective detection of the explosives TNT and RDX. <i>Chemical Communications</i> , 2004 , 40-1	5.8	20
445	Alkali chloride cluster ion dissociation examined by the kinetic method: heterolytic bond dissociation energies, effective temperatures, and entropic effects. <i>Journal of the American Society for Mass Spectrometry</i> , 2002 , 13, 1388-95	3.5	20
444	Esterification and Ether Formation at a Hydroxyl-Terminated Self-Assembled Monolayer Surface Using Low-Energy Collisions of Polyatomic Cations. <i>Langmuir</i> , 2002 , 18, 4799-4808	4	20
443	On-Line Monitoring of Reactions of Epichlorohydrin in Water Using Liquid Membrane Introduction Mass Spectrometry. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 343-351	3.9	20
442	Performance of an ion trap mass spectrometer modified to accept a direct insertion membrane probe in analysis of low level pollutants in water. <i>Talanta</i> , 1993 , 40, 1031-9	6.2	20
441	Determination of ion frequencies in a quadrupole ion trap by using a fast direct current pulse as pump and a laser probe. <i>Journal of the American Society for Mass Spectrometry</i> , 1994 , 5, 29-36	3.5	20
440	Information on the location of carbon-carbon double bonds in C ₆ -C ₂₃ linear alkenes from carbon addition reactions in a quadrupole ion trap equipped with a pulsed sample-inlet system. <i>Journal of the American Society for Mass Spectrometry</i> , 1991 , 2, 305-13	3.5	20
439	Mass spectrometry and its use in tandem with laser spectroscopy. <i>Science</i> , 1990 , 250, 61-8	33.3	20
438	Scanning a triple quadrupole mass spectrometer for doubly charged ions. <i>Organic Mass Spectrometry</i> , 1983 , 18, 561-567		20
437	Angle-resolved mass spectrometry by \bar{B} -deflected \bar{B} -scanning. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1982 , 43, 327-330		20
436	Imaging detector for mass spectrometry. <i>Analytical Chemistry</i> , 1975 , 47, 1734-1738	7.8	20
435	Ferrocenylboranes. II. Ferrocenyl boric acids and related compounds. Mass spectral and hydrogen-bonding studies. <i>Inorganic Chemistry</i> , 1970 , 9, 1670-1677	5.1	20
434	Energy partition in the fragmentation of organic ions. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1971 , 7, 493-496		20
433	Thiophen chemistry. Part XIII. Mass spectra of substituted thiophens. <i>Journal of the Chemical Society B, Physical Organic</i> , 1967 , 616		20
432	Studies in mass spectroscopyXII. <i>Tetrahedron</i> , 1968 , 24, 3289-3298	2.4	20
431	Utility of neurological smears for intrasurgical brain cancer diagnostics and tumour cell percentage by DESI-MS. <i>Analyst, The</i> , 2017 , 142, 449-454	5	19
430	Paper spray ionization mass spectrometry for rapid quantification of illegal beverage dyes. <i>Analytical Methods</i> , 2017 , 9, 6273-6279	3.2	19
429	Ion creation, ion focusing, ion/molecule reactions, ion separation, and ion detection in the open air in a small plastic device. <i>Analyst, The</i> , 2015 , 140, 696-700	5	19

428	Screening of the Suzuki Cross-Coupling Reaction Using Desorption Electrospray Ionization in High-Throughput and in Leidenfrost Droplet Experiments. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 2144-2151	3.5	19
427	Sulfur trifluoride cation (SF ₃ ⁺) affinities of pyridines determined by the kinetic method: Stereoelectronic effects in the gas phase. <i>Journal of the American Society for Mass Spectrometry</i> , 1997 , 8, 68-75	3.5	19
426	Tissue Imaging at Atmospheric Pressure Using Desorption Electrospray Ionization (DESI) Mass Spectrometry. <i>Angewandte Chemie</i> , 2006 , 118, 7346-7350	3.6	19
425	High-throughput mass spectrometer using atmospheric pressure ionization and a cylindrical ion trap array. <i>Analytical Chemistry</i> , 2005 , 77, 459-70	7.8	19
424	Multiplexed rectilinear ion trap mass spectrometer for high-throughput analysis. <i>Analytical Chemistry</i> , 2006 , 78, 4830-8	7.8	19
423	A Desorption Electrospray Ionization Mass Spectrometry Study of Aging Products of Diphenylamine Stabilizer in Double-Base Propellants. <i>Propellants, Explosives, Pyrotechnics</i> , 2006 , 31, 472-476	1.7	19
422	Generation of arylnitrenium ions by nitro-reduction and gas-phase synthesis of N-heterocycles. <i>Journal of the American Society for Mass Spectrometry</i> , 2004 , 15, 1675-88	3.5	19
421	Chemical mass shifts in resonance ejection experiments in the quadrupole ion trap. <i>Journal of Mass Spectrometry</i> , 2002 , 37, 1051-8	2.2	19
420	High surface area membrane introduction mass spectrometry for analysis of volatile and semi-volatile organic compounds in air. <i>Rapid Communications in Mass Spectrometry</i> , 2001 , 15, 1520-1524	2.2	19
419	Chiral Preferences in the Dissociation of Homogeneous Amino Acid/Metal Ion Clusters. <i>European Journal of Mass Spectrometry</i> , 2002 , 8, 107-115	1.1	19
418	Cleavage of C-Cl and C-F Bonds by Xe ⁺ and I ⁺ Ions in Reactions at a Fluorinated Self-Assembled Monolayer Surface: Collision Energy Dependence and Mechanisms. <i>Journal of the American Chemical Society</i> , 1998 , 120, 8189-8198	16.4	19
417	Thermospray liquid chromatography-mass spectrometry with a quadrupole ion trap mass spectrometer. <i>Biomedical Applications</i> , 1991 , 562, 3-11		19
416	A tandem quadrupole-ion trap mass spectrometer. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991 , 105, 13-29		19
415	Time persistence of monochloramine in human saliva and stomach fluid. <i>Environmental Science & Technology</i> , 1992 , 26, 302-306	10.3	19
414	Mass spectrometers: instrumentation. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1992 , 118-119, 1-36		19
413	Ion-molecule chemistry of pyrene in an ion-trap mass spectrometer. <i>Organic Mass Spectrometry</i> , 1992 , 27, 453-462		19
412	Secondary-ion mass spectra of nonvolatile silver complexes. <i>Inorganic Chemistry</i> , 1983 , 22, 2492-2494	5.1	19
411	Identification of new cactus alkaloids in <i>Backebergia militaris</i> by tandem mass spectrometry. <i>Journal of Natural Products</i> , 1984 , 47, 839-45	4.9	19

410	Characterization of Alkaloids and Other Secondary Metabolites by Multiple Stage Mass Spectrometry. <i>Journal of Natural Products</i> , 1984 , 47, 197-214	4.9	19
409	Direct analysis of mixtures by double quadrupole mass spectrometry. <i>Analytica Chimica Acta</i> , 1980 , 119, 145-148	6.6	19
408	The Role of the Interface in Thin Film and Droplet Accelerated Reactions Studied by Competitive Substituent Effects. <i>Angewandte Chemie</i> , 2016 , 128, 3494-3498	3.6	19
407	Electrophoretic Desalting To Improve Performance in Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 3856-3862	7.8	18
406	High Throughput Experimentation Using DESI-MS to Guide Continuous-Flow Synthesis. <i>Scientific Reports</i> , 2019 , 9, 14745	4.9	18
405	Chemical analysis and chemical imaging of fragrances and volatile compounds by low-temperature plasma ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013 , 27, 1828-36	2.2	18
404	Evaluation of a differential mobility spectrometer/miniature mass spectrometer system. <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 1477-81	3.5	18
403	Reactive Ion Scattering from Surfaces Bearing Isomeric Chlorinated Adsorbates. <i>Analytical Chemistry</i> , 1999 , 71, 3311-3317	7.8	18
402	Thin Pervaporation Membranes for Improved Performance in On-line Flow Injection Analysis Membrane Introduction Mass Spectrometry 1996 , 10, 751-756		18
401	Measurement of kinetic energies of ions ejected from a quadrupole ion trap. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991 , 106, 237-247		18
400	Energy deposition during electron-induced dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 1993 , 4, 145-51	3.5	18
399	Characterization of isomeric dimethylfuranocoumarins by electron impact ionization and surface and gaseous collision activation mass spectrometry. <i>Biomedical & Environmental Mass Spectrometry</i> , 1989 , 18, 927-934		18
398	Direct detection of organic compounds in water at parts-per-billion levels using a simple membrane probe and a quadrupole ion trap. <i>Biomedical & Environmental Mass Spectrometry</i> , 1989 , 18, 1063-1070		18
397	Modification of calf thymus DNA by methyl methanesulfonate. Quantitative determination of 7-methyldeoxyguanosine by mass spectrometry. <i>Chemico-Biological Interactions</i> , 1986 , 57, 295-300	5	18
396	Product distributions and their relation with coal liquefaction conditions. <i>Fuel</i> , 1987 , 66, 74-82	7.1	18
395	The reaction intermediate spectrum. A new type of experiment in tandem mass spectrometry. <i>Organic Mass Spectrometry</i> , 1987 , 22, 348-358		18
394	Angular distribution of fragment ions arising from the collision-induced decomposition of polyatomic primary ions. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1983 , 48, 423-426		18
393	Kinetic energy release and ion structure: [C ₆ H ₆ O] ⁺ <i>Organic Mass Spectrometry</i> , 1980 , 15, 131-133		18

392	Unimolecular dissociations at short times. A comparison of angle-resolved mass spectrometry and field ionization kinetics. <i>Journal of the American Chemical Society</i> , 1981 , 103, 465-467	16.4	18
391	Distributions of kinetic energy release in benzoyl ion formation. <i>Organic Mass Spectrometry</i> , 1976 , 11, 423-428		18
390	High-yield gram-scale organic synthesis using accelerated microdroplet/thin film reactions with solvent recycling. <i>Chemical Science</i> , 2020 , 11, 2356-2361	9.4	18
389	Multigenerational Collision-Induced Dissociation for Characterization of Organic Compounds. <i>Analytical Chemistry</i> , 2016 , 88, 9572-9581	7.8	18
388	Analysis of Residual Explosives by Swab Touch Spray Ionization Mass Spectrometry. <i>Propellants, Explosives, Pyrotechnics</i> , 2018 , 43, 1139-1144	1.7	18
387	Fischer Indole Synthesis in the Gas Phase, the Solution Phase, and at the Electrospray Droplet Interface. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 1359-1364	3.5	17
386	High yield accelerated reactions in nonvolatile microthin films: chemical derivatization for analysis of single-cell intracellular fluid. <i>Chemical Science</i> , 2018 , 9, 7779-7786	9.4	17
385	Resonance methods in quadrupole ion traps. <i>Chemical Physics Letters</i> , 2017 , 668, 69-89	2.5	17
384	Stereoelectronic effects and gas phase Co ⁺ , Ni ⁺ , CpFe ⁺ , CpCo ⁺ and CpNi ⁺ affinities of pyridines studied by the kinetic method. <i>Journal of Organometallic Chemistry</i> , 1997 , 539, 131-139	2.3	17
383	Ion/molecule reactions in a miniature RIT mass spectrometer. <i>Journal of Mass Spectrometry</i> , 2005 , 40, 1403-11	2.2	17
382	Ion Mobility Measurement by Dc Tomography in an Rf Quadrupole Ion Trap. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 5059-5065	2.8	17
381	Fourier transform detection in a cylindrical quadrupole ion trap. <i>Analytical Chemistry</i> , 1998 , 70, 3545-7	7.8	17
380	Replacement of C-O by P-O in Cyclic Acetals and Ketals. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 386-389	16.4	17
379	Proton affinity of the stable free radical 2,2,6,6-tetramethyl-l-piperidinyloxy measured by the kinetic method. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995 , 151, 69-75		17
378	Dissociative charge transfer of singly- and doubly-charged rare gas ions with W(CO) ₆ . <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991 , 110, 1-29		17
377	Resonance effects during ion injection into an ion trap mass spectrometer. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991 , 108, 199-219		17
376	Internal energy deposition in doubly charged tungsten hexacarbonyl on low-energy Charge exchange with organic targets. <i>Organic Mass Spectrometry</i> , 1992 , 27, 667-676		17
375	Reduction of space-charging in the quadrupole ion trap by sequential injection and simultaneous storage of positively and negatively charged ions. <i>Rapid Communications in Mass Spectrometry</i> , 1993 , 7, 380-382	2.2	17

- 374 Reduction induced by ion beams: hydrogenation of nitrogen-containing heterocycles and quinones in molecular secondary ion mass spectrometry. *Journal of the American Chemical Society*, **1989**, 111, 5577-5583 ^{16.4} 17
- 373 Surface-induced dissociation of isomeric [C₅H₆]⁺ ions. *Organic Mass Spectrometry*, **1987**, 22, 418-420 17
- 372 Energetics of activation of tetracarbonylferrate(1-) and pentacarbonylchromate(1-) in gaseous collisions. *The Journal of Physical Chemistry*, **1988**, 92, 6465-6469 17
- 371 Surface modification by soft landing of reagent beams. *International Journal of Mass Spectrometry and Ion Physics*, **1983**, 53, 323-326 17
- 370 Identification of naturally occurring quaternary compounds by combined laser desorption and tandem mass spectrometry. *Analytical Chemistry*, **1983**, 55, 1302-1305 7.8 17
- 369 Chemotaxonomy of Columnar Mexican Cacti by Mass Spectrometry/Mass Spectrometry. *Journal of Natural Products*, **1980**, 43, 288-293 4.9 17
- 368 Negative and positive secondary ion mass spectra of organic acids. *Tetrahedron*, **1981**, 37, 1067-1073 2.4 17
- 367 The structure of the benzene molecular ion. *Organic Mass Spectrometry*, **1973**, 7, 245-247 17
- 366 Accelerated microdroplet synthesis of benzimidazoles by nucleophilic addition to protonated carboxylic acids. *Chemical Science*, **2020**, 11, 12686-12694 9.4 17
- 365 Multiple reaction monitoring (MRM)-profiling with biomarker identification by LC-QTOF to characterize coronary artery disease. *Analyst, The*, **2018**, 143, 5014-5022 5 17
- 364 Peptide Cross-Linking at Ambient Surfaces by Reactions of Nanosprayed Molecular Cations. *Angewandte Chemie*, **2012**, 124, 9551-9555 3.6 16
- 363 Estimation of ionization energies of substituted anilines by the kinetic method. *International Journal of Mass Spectrometry and Ion Processes*, **1998**, 175, 205-213 16
- 362 Collisions of organic ions at surfaces. *Applied Surface Science*, **2004**, 231-232, 13-21 6.7 16
- 361 Surface modification using a commercial triple quadrupole mass spectrometer. *Analytical Chemistry*, **2000**, 72, 5798-803 7.8 16
- 360 Effect of Olefin Pyramidalization on the Proton Affinity of Tricyclo[3.3.3.0^{3,7}]undec-3(7)-ene as Determined by ab Initio Calculations and Kinetic Method Measurements. *Journal of the American Chemical Society*, **1996**, 118, 10872-10878 16.4 16
- 359 Electrophilic bromination of gaseous aromatic compounds: Mechanism and linear free energy effects on reaction rates. *Organic Mass Spectrometry*, **1993**, 28, 1313-1322 16
- 358 Enhanced silver cationization of polycyclic aromatic hydrocarbons containing bay regions in molecular secondary ion mass spectrometry. *Biomedical & Environmental Mass Spectrometry*, **1989**, 18, 83-85 16
- 357 Focal points in mass spectrometry. *Science*, **1987**, 235, 545-53 33.3 16

356	Isomer distinction by ion/molecule reactions in an ion trap: The case of C ₅ H ₈ . <i>Analytica Chimica Acta</i> , 1988 , 215, 223-232	6.6	16
355	MS/MS spectra of organic ions generated by secondary ion mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1984 , 56, 177-192		16
354	Mass spectrometric investigation of silver ion promoted carbon-carbon bond scission. <i>Inorganic Chemistry</i> , 1984 , 23, 4093-4097	5.1	16
353	Antineoplastic agents from higher plants: application of tandem mass spectrometry to xanthenes from <i>Psorospermum febrifugum</i> . <i>Journal of Natural Products</i> , 1986 , 49, 412-23	4.9	16
352	Gas-phase Dieckmann ester condensation characterized by mass spectrometry/mass spectrometry. <i>Journal of Organic Chemistry</i> , 1982 , 47, 4864-4869	4.2	16
351	Charge stripping and E/2 mass spectra. <i>Organic Mass Spectrometry</i> , 1976 , 11, 857-866		16
350	Temperature effects in mass-spectrometric fragmentations. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1976 , 19, 179-183		16
349	Simultaneous Online Monitoring of Multiple Reactions Using a Miniature Mass Spectrometer. <i>Analytical Chemistry</i> , 2017 , 89, 6969-6975	7.8	15
348	Single Analyzer Precursor Ion Scans in a Linear Quadrupole Ion Trap Using Orthogonal Double Resonance Excitation. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 1929-1938	3.5	15
347	From DESI to the MasSpec Pen: Ambient Ionization Mass Spectrometry for Tissue Analysis and Intracutaneous Cancer Diagnosis. <i>Clinical Chemistry</i> , 2018 , 64, 628-630	5.5	15
346	Multiple Reaction Monitoring Profiling (MRM-Profilig) of Lipids To Distinguish Strain-Level Differences in Microbial Resistance in. <i>Analytical Chemistry</i> , 2019 , 91, 11349-11354	7.8	15
345	Using Ambient Ion Beams to Write Nanostructured Patterns for Surface Enhanced Raman Spectroscopy. <i>Angewandte Chemie</i> , 2014 , 126, 12736-12739	3.6	15
344	Multiplexed four-channel rectilinear ion trap mass spectrometer. <i>Analytical Chemistry</i> , 2009 , 81, 1570-9	7.8	15
343	Electron inity of 1,3,5,7-cyclooctatetraene determined by the kinetic method. <i>Journal of the American Society for Mass Spectrometry</i> , 1998 , 9, 1141-1145	3.5	15
342	Chiral purity assay for Flindokalner using tandem mass spectrometry: method development, validation, and benchmarking. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007 , 43, 1602-8	3.5	15
341	Phase-enhanced selective ion ejection in an orbitrap mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2007 , 18, 980-3	3.5	15
340	Thermal Production and Reactions of Organic Ions at Atmospheric Pressure. <i>Angewandte Chemie</i> , 2006 , 118, 3738-3742	3.6	15
339	Denitration of nitroaromatic compounds by aryl nitrile radical cations. <i>Journal of the American Society for Mass Spectrometry</i> , 2000 , 11, 33-9	3.5	15

- 338 Abstraction of multiple surface atoms by pyrazine, pyrene and HC₂N ions on low-energy collisions with self-assembled monolayer surfaces. *Journal of Mass Spectrometry*, **1995**, 30, 241-246 2.2 15
- 337 Detection of low molecular weight aldehydes in aqueous solution by membrane introduction mass spectrometry. *Talanta*, **1992**, 39, 573-80 6.2 15
- 336 Organic reactions at surfaces: A study of carnitine by secondary ion mass spectrometry. *Organic Mass Spectrometry*, **1988**, 23, 16-25 15
- 335 Dissociation of protonated 2,2,6-trimethylcyclohexanone and related compounds upon high and low energy collisional activation. *International Journal of Mass Spectrometry and Ion Processes*, **1988**, 86, 253-272 15
- 334 Hydroxylation of aromatic hydrocarbons in mass spectrometer ion sources under atmospheric pressure ionization and chemical ionization conditions. *Analytical Chemistry*, **1983**, 55, 2272-2275 7.8 15
- 333 Bimolecular condensation reactions in the gas phase. The Schiff base synthesis. *International Journal of Mass Spectrometry and Ion Processes*, **1984**, 62, 303-315 15
- 332 A tandem flowing afterglow-triple quadrupole instrument. *International Journal of Mass Spectrometry and Ion Processes*, **1985**, 64, 185-191 15
- 331 Dissociative excitation of gas-phase ions. A comparison of techniques utilizing ion cyclotron resonance spectroscopy and angle-resolved mass spectrometry. *International Journal of Mass Spectrometry and Ion Physics*, **1981**, 39, 55-64 15
- 330 Cactus Alkaloids. XLIX. New Trace Alkaloids (Dehydrosalsolidine and Heliamine) From the Saguaro, *Carnegiea gigantea*, and Confirmation by Mikes (MS/MS). *Journal of Natural Products*, **1982**, 45, 277-282 4.9 15
- 329 Mass spectrometric studies using compounds isotopically labeled at natural abundance. Development from ion kinetic energy spectrometry. *Analytical Chemistry*, **1974**, 46, 1299-1302 7.8 15
- 328 High-energy ion-molecule reactions at nonzero scattering angles. *The Journal of Physical Chemistry*, **1975**, 79, 708-711 15
- 327 High-throughput screening of organic reactions in microdroplets using desorption electrospray ionization mass spectrometry (DESI-MS): hardware and software implementation. *Analytical Methods*, **2020**, 12, 3654-3669 3.2 15
- 326 Reaction acceleration at air-solution interfaces: Anisotropic rate constants for Katritzky transamination. *Journal of Mass Spectrometry*, **2021**, 56, e4585 2.2 15
- 325 Uncatalyzed, Regioselective Oxidation of Saturated Hydrocarbons in an Ambient Corona Discharge. *Angewandte Chemie - International Edition*, **2018**, 57, 769-773 16.4 15
- 324 Feasibility of desorption electrospray ionization mass spectrometry for diagnosis of oral tongue squamous cell carcinoma. *Rapid Communications in Mass Spectrometry*, **2018**, 32, 133-141 2.2 15
- 323 Single Analyzer Neutral Loss Scans in a Linear Quadrupole Ion Trap Using Orthogonal Double Resonance Excitation. *Analytical Chemistry*, **2017**, 89, 8148-8155 7.8 14
- 322 Anisotropic Molecular Ionization at 1 V from Tellurium Nanowires (Te NWs). *Analytical Chemistry*, **2015**, 87, 10792-8 7.8 14
- 321 High-Throughput Experimentation and Continuous Flow Evaluation of Nucleophilic Aromatic Substitution Reactions. *ACS Combinatorial Science*, **2020**, 22, 184-196 3.9 14

320	High-Throughput Bioassays using "Dip-and-Go" Multiplexed Electrospray Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17594-17598	16.4	14
319	Nucleophilic addition of nitrogen to aryl cations: mimicking Titan chemistry. <i>Journal of the American Society for Mass Spectrometry</i> , 2013 , 24, 1745-54	3.5	14
318	Perspectives and retrospectives in mass spectrometry: one view. <i>European Journal of Mass Spectrometry</i> , 2010 , 16, 283-300	1.1	14
317	Estimation of heterolytic bond dissociation energies by the kinetic method 1997 , 32, 1258-1261		14
316	Thermal formation of mixed-metal inorganic complexes at atmospheric pressure. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 3540-8	2.2	14
315	Detection of explosives on solid surfaces by thermal desorption and ambient ion/molecule reactions. <i>Chemical Communications</i> , 2005 , 1953-5	5.8	14
314	Ion trajectory simulations of axial ac dipolar excitation in the Orbitrap. <i>International Journal of Mass Spectrometry</i> , 2006 , 254, 53-62	1.9	14
313	Performance of a multiplexed chemical ionization miniature cylindrical ion trap array mass spectrometer. <i>Analyst, The</i> , 2004 , 129, 323	5	14
312	Resolution of Isobaric and Isomeric Ions Using Chemical Shifts in an Ion Trap Mass Spectrometer. <i>Analytical Chemistry</i> , 1998 , 70, 4448-4452	7.8	14
311	Determination of Melatonin in Commercially Available Products by LCEC and LC/MS/MS. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1998 , 21, 1273-1282	1.3	14
310	Novel Rare Gas Ions BXe ⁺ , BKr ⁺ , and BAr ⁺ Formed in a Halogen/Rare Gas Exchange Reaction. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 9565-9568	2.8	14
309	Microstructure of Alkyl Isocyanate Copolymers Comprised of Enantiomeric Monomers Determined by Desorption Chemical Ionization Mass Spectrometry. <i>Macromolecules</i> , 1995 , 28, 2955-2960	5.5	14
308	Supercritical fluid chromatography/mass spectrometry using a quadrupole mass filter/quadrupole ion trap hybrid mass spectrometer with external ion source. <i>Analytical Chemistry</i> , 1992 , 64, 1571-1577	7.8	14
307	Long chain alkyl heteroaromatics in coal identified by tandem mass spectrometry. <i>Organic Geochemistry</i> , 1984 , 7, 169-172	3.1	14
306	Secondary ion mass spectrometry of nonvolatile isocyanide complexes of silver(I) and copper(I). <i>Inorganica Chimica Acta</i> , 1986 , 115, 55-63	2.7	14
305	Improved performance in angle-resolved mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1983 , 52, 311-318		14
304	Fragmentation d'azoles sous l'impact électronique. XEtude de rearrangements cycliques en série alkylamino-1,2,4-triazole. <i>Organic Mass Spectrometry</i> , 1975 , 10, 946-957		14
303	Detection of high mass cluster ions sputtered from Bi surfaces. <i>Chemical Physics Letters</i> , 1976 , 44, 371-373		14

302	Identification of individual steroids in biological matrices by mass-analyzed ion kinetic energy spectrometry. <i>Analytical Biochemistry</i> , 1979 , 96, 104-12	3.1	14
301	Peracetylated 1-phenylflavazoles as carbohydrate derivatives for mass spectrometry. <i>Carbohydrate Research</i> , 1971 , 18, 233-242	2.9	14
300	Peracetylated 1-phenylflavazoles as carbohydrate derivatives for mass spectrometry. <i>Carbohydrate Research</i> , 1971 , 18, 243-249	2.9	14
299	Metabolites and Lipids Associated with Fetal Swine Anatomy via Desorption Electrospray Ionization - Mass Spectrometry Imaging. <i>Scientific Reports</i> , 2019 , 9, 7247	4.9	13
298	Analysis of bacteria using zero volt paper spray. <i>Analytical Methods</i> , 2016 , 8, 1770-1773	3.2	13
297	Mass selection of ions from beams using waveform isolation in radiofrequency quadrupoles. <i>Analytical Chemistry</i> , 2009 , 81, 1833-40	7.8	13
296	Stereoelectronic effects in phosphorus dichloride cation/pyridine complexes. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997 , 163, 89-99		13
295	An evaluation of low vapor pressure liquids for membrane introduction mass spectrometry 1997 , 32, 1299-1304		13
294	Deamination of protonated amines to yield protonated imines. <i>Journal of the American Society for Mass Spectrometry</i> , 1998 , 9, 1146-1157	3.5	13
293	Atmospheric pressure thermal dissociation of phospho- and sulfopeptides. <i>Journal of the American Society for Mass Spectrometry</i> , 2008 , 19, 1897-905	3.5	13
292	Differential non-destructive image current detection in a fourier transform quadrupole ion trap. <i>Journal of Mass Spectrometry</i> , 1999 , 34, 889-94	2.2	13
291	Structural studies on alkylisocyanate polymers by thermal degradation tandem mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1991 , 2, 130-48	3.5	13
290	Analysis of acrolein and acrylonitrile in aqueous solution by membrane introduction mass spectrometry. <i>Talanta</i> , 1992 , 39, 1113-20	6.2	13
289	Fragmentation from an isolated electronic state of ionized perfluoropropylene. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1984 , 56, 223-227		13
288	Molecular Secondary Ion Mass Spectrometry. <i>ACS Symposium Series</i> , 1985 , 1-42	0.4	13
287	Mass-analyzed ion kinetic energy (MIKE) spectrometry and the direct analysis of coca. <i>Journal of Ethnopharmacology</i> , 1981 , 3, 299-312	5	13
286	Secondary ion mass spectra of quaternary pyridine aldoximes. <i>Analytica Chimica Acta</i> , 1982 , 136, 143-153	3.6	13
285	Ion kinetic energy spectrometry. <i>Journal of Physics E: Scientific Instruments</i> , 1974 , 7, 10-18		13

- 284 Modification of a double focusing mass spectrometer for angular resolution. *International Journal of Mass Spectrometry and Ion Physics*, **1978**, 26, 353-358 13
- 283 Electron impact-induced rearrangements in compounds having the PS bond. *Journal of the Chemical Society B, Physical Organic*, **1968**, 1327-1333 13
- 282 Kinetic energy loss in collision-induced fragmentations: asymmetric metastable peaks in mass spectra. *Journal of the Chemical Society Chemical Communications*, **1972**, 341 13
- 281 Electron impact studies. Part VIII. Mass spectra of substituted azobenzenes; aryl migration on electron impact. *Journal of the Chemical Society B, Physical Organic*, **1967**, 621 13
- 280 Multiple reaction monitoring profiling (MRM profiling): Small molecule exploratory analysis guided by chemical functionality. *Chemistry and Physics of Lipids*, **2021**, 235, 105048 3.7 13
- 279 Accelerated Chemical Reactions and Organic Synthesis in Leidenfrost Droplets. *Angewandte Chemie*, **2016**, 128, 10634-10638 3.6 13
- 278 Process Analytical Technology for Online Monitoring of Organic Reactions by Mass Spectrometry and UV-Vis Spectroscopy. *Journal of Chemical Education*, **2019**, 96, 124-131 2.4 13
- 277 Simultaneous and Sequential MS/MS Scan Combinations and Permutations in a Linear Quadrupole Ion Trap. *Analytical Chemistry*, **2017**, 89, 11053-11060 7.8 12
- 276 Ambient preparation and reactions of gas phase silver cluster cations and anions. *Physical Chemistry Chemical Physics*, **2015**, 17, 18364-73 3.6 12
- 275 Two-dimensional MS/MS scans on a linear ion trap mass analyzer: Identification of V-series chemical warfare agents. *International Journal of Mass Spectrometry*, **2019**, 444, 116171 1.9 12
- 274 Extending the mass range of a miniature ion trap mass spectrometer using the inverse Mathieu q scan. *International Journal of Mass Spectrometry*, **2017**, 422, 154-161 1.9 12
- 273 Direct analysis of complex mixtures by mass spectrometry. *International Journal of Mass Spectrometry*, **2015**, 377, 709-718 1.9 12
- 272 Ion transport and focal properties of an ellipsoidal electrode operated at atmospheric pressure. *International Journal of Mass Spectrometry*, **2012**, 330-332, 277-284 1.9 12
- 271 Performance of a low voltage ion trap. *International Journal of Mass Spectrometry*, **2011**, 305, 69-73 1.9 12
- 270 Stereoelectronic Effects and Gas-phase Affinities of Dicoordinated Borinium Cations **1997**, 32, 159-166 12
- 269 Gas-phase C-F bond cleavage in perfluorohexane using W-, Si-, P-, Br-, and I-containing ions: Comparisons with reactions at fluorocarbon surfaces. *Journal of the American Society for Mass Spectrometry*, **1998**, 9, 1158-1167 3.5 12
- 268 Trace analysis of organics in air by corona discharge atmospheric pressure ionization using an electrospray ionization interface. *European Journal of Mass Spectrometry*, **2004**, 10, 197-204 1.1 12
- 267 Synthesis of B, N, O-containing heterocycles via reaction of an aminoborinium ion with cyclic acetals and ketals. *Journal of Mass Spectrometry*, **2000**, 35, 1215-1221 2.2 12

266	Comments on Proton Affinities of Primary Alkanols: An Appraisal of the Kinetic Method <i>Journal of Physical Chemistry A</i> , 2000 , 104, 1359-1361	2.8	12
265	C–C Bond Cleavage by Mass-Selected Free Radicals at Fluorinated Self-Assembled Monolayer Surfaces. <i>Journal of the American Chemical Society</i> , 1998 , 120, 4254-4255	16.4	12
264	Notched broad-band excitation of ions in a bench-top ion trap mass spectrometer. <i>Analytica Chimica Acta</i> , 1995 , 303, 149-162	6.6	12
263	Reactions of isolated bicyclic hydrocarbon ions excited by different methods. <i>Journal of the American Chemical Society</i> , 1987 , 109, 3187-3194	16.4	12
262	Interfacial reactions and counterion effects in the secondary ion mass spectra of perrhenate salts. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1987 , 78, 131-146		12
261	The functional relationship scan in tandem mass spectrometry. <i>Organic Mass Spectrometry</i> , 1988 , 23, 579-584		12
260	A tandem mass spectrometric investigation of hydroxy-aromatic constituents in coal liquids. <i>Analytica Chimica Acta</i> , 1985 , 173, 117-127	6.6	12
259	Combination of chemical reduction and tandem mass spectrometry for the characterization of sulfur-containing fuel constituents. <i>Analytical Chemistry</i> , 1985 , 57, 692-694	7.8	12
258	Energy deposition in polyatomic ions upon high energy collision by angle-resolved mass spectrometry. <i>Journal of the American Chemical Society</i> , 1979 , 101, 6460-6462	16.4	12
257	Phenanthroline cationization by various metals in secondary ion mass spectrometry. <i>Analytical Chemistry</i> , 1980 , 52, 353-354	7.8	12
256	Dissociative double electron capture, dynamics of fragmentation of the water and hydrogen sulfide negative ions. <i>Chemical Physics</i> , 1976 , 12, 191-198	2.3	12
255	Ion-molecule reactions studied at non-zero scattering angles in a mass spectrometer. <i>Chemical Physics Letters</i> , 1973 , 23, 190-193	2.5	12
254	Non-benzenoid aromatic systems. IX. Aryl participation in mass spectrometry. Mechanisms and comparisons with solvolytic data for some azulene, pyridine, and benzene derivatives. <i>Journal of Organic Chemistry</i> , 1973 , 38, 1114-1118	4.2	12
253	Rhizophoraceae alkaloids. Part III. Cassipourine. <i>Journal of the Chemical Society C, Organic</i> , 1967 , 286		12
252	Direct quantitation of tenofovir diphosphate in human blood with mass spectrometry for adherence monitoring. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 1243-1249	4.4	12
251	High-Throughput Screening of Reductive Amination Reactions Using Desorption Electrospray Ionization Mass Spectrometry. <i>Organic Process Research and Development</i> , 2020 , 24, 1647-1657	3.9	12
250	Nebulization Prior to Isolation, Ionization, and Dissociation of the Neutral Serine Octamer Allows Its Characterization. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 17141-17145	16.4	12
249	Reaction Acceleration in Thin Films with Continuous Product Deposition for Organic Synthesis. <i>Angewandte Chemie</i> , 2017 , 129, 9514-9518	3.6	11

248	Nuclear magnetic resonance structure elucidation of peptide b2 ions. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1547-50	16.4	11
247	Implementation of Precursor and Neutral Loss Scans on a Miniature Ion Trap Mass Spectrometer and Performance Comparison to a Benchtop Linear Ion Trap. <i>Journal of the American Society for Mass Spectrometry</i> , 2018 , 29, 1355-1364	3.5	11
246	Reaction screening and optimization of continuous-flow atropine synthesis by preparative electrospray mass spectrometry. <i>Analyst, The</i> , 2017 , 142, 2836-2845	5	11
245	Induced Nanoelectrospray Ionization for Matrix-Tolerant and High-Throughput Mass Spectrometry. <i>Angewandte Chemie</i> , 2011 , 123, 10081-10084	3.6	11
244	Estimation of Free Radical Ionization Energies by the Kinetic Method and the Relationship between the Kinetic Method and the Hammett Equation. <i>Analytical Chemistry</i> , 1997 , 69, 3641-5	7.8	11
243	Quadrupole ion traps and trap arrays: geometry, material, scale, performance. <i>European Journal of Mass Spectrometry</i> , 2007 , 13, 13-8	1.1	11
242	Co-occurrence of boundary and resonance ejection in a multiplexed rectilinear ion trap mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2006 , 17, 56-59	3.5	11
241	Meerwein reaction of phosphonium ions with epoxides and thioepoxides in the gas phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2004 , 15, 398-405	3.5	11
240	Correlations of chemical mass shifts of para-substituted acetophenones and benzophenones with Brown's sigma constants. <i>Journal of the American Society for Mass Spectrometry</i> , 2002 , 13, 623-9	3.5	11
239	Chemical mass shifts in quadrupole ion traps as analytical characteristics of nitro-aromatic compounds. <i>International Journal of Mass Spectrometry</i> , 2003 , 222, 481-491	1.9	11
238	Parallel Reactions for Enantiomeric Quantification of Peptides by Mass Spectrometry. <i>Angewandte Chemie</i> , 2001 , 113, 779-782	3.6	11
237	Partitioning of kinetic energy to internal energy in the low energy collision-induced dissociations of proton-bound dimers of polypeptides. <i>International Journal of Mass Spectrometry</i> , 1999 , 185-187, 75-90	1.9	11
236	Normal and inverse electron demand Diels-Alder cycloaddition of protonated and methylated carbonyl compounds in the gas phase. <i>Journal of Mass Spectrometry</i> , 1995 , 30, 581-594	2.2	11
235	Chemical modification of DNA: quantitation of O6-methyldeoxyguanosine by tandem mass spectrometry. <i>Biological Mass Spectrometry</i> , 1991 , 20, 503-4		11
234	Internal energy deposition in doubly charged tungsten hexacarbonyl on charge exchange at high energy with atomic and molecular targets. <i>Organic Mass Spectrometry</i> , 1992 , 27, 769-776		11
233	Comparative study of energy deposition in gaseous organic ions performed using limonene as a model compound. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1990 , 101, 219-243		11
232	Internal solvation, entropy, and energy effects on alternative channels for a single reaction. Methoxyl vs. methyl migration in the (M-methyl)+ ion from methoxymethyl isopropyl ether. <i>Journal of the American Chemical Society</i> , 1975 , 97, 4415-4416	16.4	11
231	The β -cleavage reaction in ethers. <i>Organic Mass Spectrometry</i> , 1970 , 3, 127-129		11

230	Bond-forming reactions occurring in azines upon electron impact. <i>Organic Mass Spectrometry</i> , 1968 , 1, 583-592		11
229	Intraoperative assessment of isocitrate dehydrogenase mutation status in human gliomas using desorption electrospray ionization-mass spectrometry. <i>Journal of Neurosurgery</i> , 2019 , 132, 180-187	3.2	11
228	Online Inductive Electrospray Ionization Mass Spectrometry as a Process Analytical Technology Tool To Monitor the Synthetic Route to Anagliptin. <i>Organic Process Research and Development</i> , 2016 , 20, 940-947	3.9	11
227	Functionalization of saturated hydrocarbons using nitrogen ion insertion reactions in mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2017 , 418, 79-85	1.9	10
226	State-of-the-art mass spectrometry for point-of-care and other applications: A hands-on intensive short course for undergraduate students. <i>International Journal of Mass Spectrometry</i> , 2017 , 417, 22-28	1.9	10
225	Accelerated Chemical Synthesis: Three Ways of Performing the Katritzky Transamination Reaction. <i>Journal of Chemical Education</i> , 2019 , 96, 360-365	2.4	10
224	Skin molecule maps using mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 5261-2	11.5	10
223	Successive Resonances for Ion Ejection at Arbitrary Frequencies in an Ion Trap. <i>Journal of the American Society for Mass Spectrometry</i> , 2016 , 27, 1922-1928	3.5	10
222	On-line chiral analysis using the kinetic method. <i>Analyst, The</i> , 2016 , 141, 2441-6	5	10
221	Synthesis and Catalytic Reactions of Nanoparticles formed by Electrospray Ionization of Coinage Metals. <i>Angewandte Chemie</i> , 2014 , 126, 3211-3214	3.6	10
220	Atmospheric pressure neutral reionization mass spectrometry for structural analysis. <i>Chemical Science</i> , 2017 , 8, 6499-6507	9.4	10
219	Analysis and modification of surfaces using molecular ions in the ambient environment. <i>Current Opinion in Chemical Biology</i> , 2011 , 15, 741-7	9.7	10
218	Molecular ion yield enhancement in static secondary ion mass spectrometry by soft landing of protonated water clusters. <i>Surface and Interface Analysis</i> , 2011 , 43, 498-501	1.5	10
217	Synchronized Inductive Desorption Electrospray Ionization Mass Spectrometry. <i>Angewandte Chemie</i> , 2011 , 123, 2551-2554	3.6	10
216	Ion/molecule reactions for detecting ammonia using miniature cylindrical ion trap mass spectrometers. <i>Analyst, The</i> , 2011 , 136, 120-7	5	10
215	Proton affinity of peroxyacetyl nitrate sampled by membrane introduction mass spectrometry 1998 , 12, 328-334		10
214	Dual-source mass spectrometer with MALDI-LIT-ESI configuration. <i>Journal of Proteome Research</i> , 2007 , 6, 837-45	5.6	10
213	Translational to vibrational energy conversion during surface-induced dissociation of n-butylbenzene molecular ions colliding at self-assembled monolayer surfaces. <i>European Journal of Mass Spectrometry</i> , 2003 , 9, 237-4	1.1	10

212	Hydrogen/Chlorine exchange reactions of gaseous carbanions. <i>Journal of the American Society for Mass Spectrometry</i> , 2005 , 16, 2045-51	3.5	10
211	Gas-phase SN2 reactivity of dicoordinated borinium cations using pentaquadrupole mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2001 , 12, 948-55	3.5	10
210	Metal-assisted esterification: glutaric acid-iron(II) complexes in the gas phase. <i>Rapid Communications in Mass Spectrometry</i> , 2001 , 15, 484-8	2.2	10
209	Axial ion motion within the quadrupole ion trap elucidated by dc pulse tomography. <i>International Journal of Mass Spectrometry</i> , 2000 , 194, 225-234	1.9	10
208	Chemical modification of deoxyribonucleic acids: Quantitation of 3-methylthymidine and O4-methylthymidine by tandem mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991 , 111, 381-394		10
207	Quadrupole ion trap mass spectrometry of fullerenes. <i>Organic Mass Spectrometry</i> , 1992 , 27, 284-288		10
206	Reactions of low-energy ions with ferrocene self-assembled monolayer surfaces. <i>Rapid Communications in Mass Spectrometry</i> , 1993 , 7, 711-713	2.2	10
205	Gas phase methylation of the dihydroxybenzenes. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1984 , 62, 73-87		10
204	Search for new alkaloids in <i>Pachycereus weberi</i> by tandem mass spectrometry. <i>Analytical Chemistry</i> , 1985 , 57, 109-14	7.8	10
203	The [C ₅ H ₈] ⁺ radical cation: Structural studies by energy-resolved mass spectrometry. <i>Organic Mass Spectrometry</i> , 1985 , 20, 727-732		10
202	The identification of choline and its esters by secondary ion mass spectrometry. <i>Surface and Interface Analysis</i> , 1981 , 3, 12-15	1.5	10
201	Kinetic energy distributions in the fragmentations of metastable H ₂ S, HDS and D ₂ S ions. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1975 , 18, 43-56		10
200	Charge exchange mass spectrometry at high energy. <i>Organic Mass Spectrometry</i> , 1976 , 11, 975-983		10
199	Gaseous bivalent boron cations: stability and structure. <i>Challenge</i> , 1970 , 923	0.8	10
198	Substituent scrambling in the thiophene molecular ion. <i>Journal of the American Chemical Society</i> , 1972 , 94, 4985-4990	16.4	10
197	Intraoperative detection of isocitrate dehydrogenase mutations in human gliomas using a miniature mass spectrometer. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 7929-7933	4.4	10
196	Ambient Ionization Mass Spectrometry Measurement of Aminotransferase Activity. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 1175-1181	3.5	9
195	On-Line Synthesis and Analysis by Mass Spectrometry. <i>Journal of Chemical Education</i> , 2015 , 92, 2146-2151	1.4	9

194	Precursor and Neutral Loss Scans in an RF Scanning Linear Quadrupole Ion Trap. <i>Journal of the American Society for Mass Spectrometry</i> , 2018 , 29, 1345-1354	3.5	9
193	Two-Dimensional Tandem Mass Spectrometry in a Single Scan on a Linear Quadrupole Ion Trap. <i>Analytical Chemistry</i> , 2019 , 91, 13752-13762	7.8	9
192	N-Acetylaspartate and 2-Hydroxyglutarate Assessed in Human Brain Tissue by Mass Spectrometry as Neuronal Markers of Oncogenesis. <i>Clinical Chemistry</i> , 2017 , 63, 1766-1767	5.5	9
191	Axial CID and high pressure resonance CID in a miniature ion trap mass spectrometer using a discontinuous atmospheric pressure interface. <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 209-14	3.5	9
190	Concerted Hydrogen Rearrangement in Nickelocenium Cation and the Formation of NiH ₂ .bul.+ . <i>The Journal of Physical Chemistry</i> , 1995 , 99, 2941-2945		9
189	Online, in situ analysis with membrane introduction MS. <i>Environmental Science & Technology</i> , 1995 , 29, 215A-218A	10.3	9
188	Nature of methyl cation bonding to dihydroxybenzenes elucidated using an ion trap mass spectrometer. <i>Organic Mass Spectrometry</i> , 1991 , 26, 575-582		9
187	Mass spectrometer systems and products. A directory of manufacturers and suppliers. <i>Rapid Communications in Mass Spectrometry</i> , 1991 , 5, 425-432	2.2	9
186	The effect of ion source temperature on the fragmentation of 2-pentanone. <i>Organic Mass Spectrometry</i> , 1986 , 21, 11-14		9
185	Beam-induced reactions in molecular secondary ion mass spectrometry. Nitryne and methyne transfer at interfaces. <i>Analytical Chemistry</i> , 1985 , 57, 2925-2927	7.8	9
184	Functional group screening of complex mixtures with a double quadrupole mass spectrometer. <i>Analytica Chimica Acta</i> , 1980 , 119, 149-152	6.6	9
183	Stereochemical assignment by mass spectrometry. Metastable ion characteristics for dehydrohalogenation. <i>Journal of Organic Chemistry</i> , 1975 , 40, 511-513	4.2	9
182	The mass spectra of substituted imides. <i>Tetrahedron</i> , 1968 , 24, 1051-1061	2.4	9
181	Differential Rapid Screening of Phytochemicals by Leaf Spray Mass Spectrometry. <i>Bulletin of the Korean Chemical Society</i> , 2014 , 35, 919-924	1.2	9
180	Rapid determination of isocitrate dehydrogenase mutation status of human gliomas by extraction nanoelectrospray using a miniature mass spectrometer. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 1503-1508	4.4	8
179	Direct ion generation from swabs. <i>Talanta</i> , 2018 , 184, 356-363	6.2	8
178	Effects of long-term dietary supplementation with conjugated linoleic acid on bovine oocyte lipid profile. <i>Reproduction, Fertility and Development</i> , 2015 ,	1.8	8
177	Accelerated tert-butyloxycarbonyl deprotection of amines in microdroplets produced by a pneumatic spray. <i>International Journal of Mass Spectrometry</i> , 2018 , 430, 98-103	1.9	8

176	Origin of chiral selectivity in gas-phase serine tetramers. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 877-85	3.6	8
175	JMS Letters 1997 , 32, 333-335		8
174	Electron affinities and C60 anion clusters of certain bowl-shaped polycyclic aromatic hydrocarbons 1997 , 32, 1305-1309		8
173	Reduction of nitroaromatics to aryl nitrenium ions by vinyl halide cations. <i>Chemical Communications</i> , 2004 , 688-9	5.8	8
172	Structural Characterization of Clusters Formed from Alkyl Nitriles and the Methyl Cation. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 11290-11296	2.8	8
171	C60 inflation: production of C62, C64, \square <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1994 , 135, 243-247		8
170	Tandem mass spectrometry for on-line fermentation monitoring. <i>Biotechnology Letters</i> , 1989 , 3, 361-364		8
169	Cactus Alkaloids. LIII. Coryphanthine and O-Methyl-Candicine, Two New Quaternary Alkaloids from <i>Coryphantha greenwoodii</i> . <i>Journal of Natural Products</i> , 1983 , 46, 688-693	4.9	8
168	Binding of first and subsequent glycerol molecules to organic and inorganic cations studied by desolvation in the mass spectrometer. <i>Analytical Chemistry</i> , 1986 , 58, 1218-1221	7.8	8
167	Unexpected course of olefin loss from some alkylcyclopentanone ions. Gaseous ion structure by ion cyclotron resonance spectrometry, mass-analyzed ion kinetic energy spectrometry and collision-induced dissociation. <i>Organic Mass Spectrometry</i> , 1976 , 11, 697-711		8
166	Electron-impact studies. Part XXI. The mass spectra of sulphonamides and sulphonyl chlorides: the formation of CD and CN bonds upon electron impact. <i>Journal of the Chemical Society B, Physical Organic</i> , 1968 , 15-21		8
165	Mass spectra of substituted thioglycolic acids and esters. Skeletal rearrangement upon electron-impact. <i>Organic Mass Spectrometry</i> , 1969 , 2, 413-424		8
164	The mass and ion kinetic energy spectra of H_2 , HD and D_2 . <i>Proceedings of the Royal Society of London Series A, Mathematical and Physical Sciences</i> , 1972 , 327, 1-11		8
163	Ion Manipulation in Open Air Using 3D-Printed Electrodes. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 2584-2593	3.5	8
162	Reaction Acceleration at Solid/Solution Interfaces: Katritzky Reaction Catalyzed by Glass Particles. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2929-2933	16.4	8
161	Sizing sub-diffraction limit electrosprayed droplets by structured illumination microscopy. <i>Analyst, The</i> , 2017 , 143, 232-240	5	8
160	Logical MS/MS scans: a new set of operations for tandem mass spectrometry. <i>Analyst, The</i> , 2018 , 143, 5438-5452	5	8
159	Parallel Reactions for Enantiomeric Quantification of Peptides by Mass Spectrometry This work was supported by the U.S. Department of Energy, Office of Energy Research. W.A.T. acknowledges fellowship support from Triangle Pharmaceuticals.. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 757-760	16.4	8

158	2D MS/MS Spectra Recorded in the Time Domain Using Repetitive Frequency Sweeps in Linear Quadrupole Ion Traps. <i>Analytical Chemistry</i> , 2020 , 92, 10016-10023	7.8	7
157	Raman spectroscopy coupled with ambient ionization mass spectrometry: A forensic laboratory investigation into rapid and simple dual instrumental analysis techniques. <i>International Journal of Mass Spectrometry</i> , 2020 , 452, 116326	1.9	7
156	Accelerated multi-reagent copper catalysed coupling reactions in micro droplets and thin films. <i>Reaction Chemistry and Engineering</i> , 2018 , 3, 206-209	4.9	7
155	Multigenerational Broadband Collision-Induced Dissociation of Precursor Ions in a Linear Quadrupole Ion Trap. <i>Journal of the American Society for Mass Spectrometry</i> , 2016 , 27, 1914-1921	3.5	7
154	Tumor Cell Detection by Mass Spectrometry Using Signal Ion Emission Reactive Release Amplification. <i>Analytical Chemistry</i> , 2016 , 88, 6971-5	7.8	7
153	Accelerated reactions in field desorption mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2018 , 53, 942-946	2.2	7
152	Ion isolation and multigenerational collision-induced dissociation using the inverse Mathieu q scan. <i>Rapid Communications in Mass Spectrometry</i> , 2017 , 31, 200-206	2.2	7
151	Rephasing ion packets in the Orbitrap mass analyzer to improve resolution and peak shape. <i>Journal of the American Society for Mass Spectrometry</i> , 2009 , 20, 1397-404	3.5	7
150	Gas-phase acidity of urea 1998 , 33, 943-949		7
149	Sampling of aryldiazonium, anilino, and aryl radicals by membrane introduction mass spectrometry: Thermolysis of aromatic diazoamino compounds. <i>Journal of the American Society for Mass Spectrometry</i> , 1998 , 9, 234-241	3.5	7
148	Instrumentation and methods for ion and reaction monitoring using a non-scanning rectilinear ion trap. <i>International Journal of Mass Spectrometry</i> , 2006 , 255-256, 1-10	1.9	7
147	Inverse Heavy-Atom Kinetic Isotope Effects in Chloroalkanes. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 10039-10043	2.8	7
146	Novel CFCs-substitutes recommended by EPA (hydrofluorocarbon-245fa and hydrofluoroether-7100): ion chemistry in air plasma and reactions with atmospheric ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2005 , 16, 1081-92	3.5	7
145	Determination of pentachlorophenol by negative ion chemical ionization with membrane introduction mass spectrometry. <i>Analyst, The</i> , 2002 , 127, 1463-6	5	7
144	Eberlin reaction of arenesulfonylium cations with cyclic acetals and ketals: ring contraction and cycloreversion. <i>Perkin Transactions II RSC</i> , 2001 , 350-355		7
143	C β and C γ bond activation by transition metals in low energy atomic ion/surface collisions 1999 , 13, 172-178		7
142	Process engineering of high-ethanol-tolerance yeast for the manufacture of ethanol. <i>Applied Biochemistry and Biotechnology</i> , 1995 , 51-52, 479-493	3.2	7
141	Structural characterization and sequence distributions of polysiloxanes using pyrolysis MS/MS. <i>Talanta</i> , 1993 , 40, 1233-43	6.2	7

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| 140 | Mass spectrometer systems and products. An expanded directory of manufacturers and suppliers. <i>Rapid Communications in Mass Spectrometry</i> , 1992 , 6, 75-84 | 2.2 | 7 |
| 139 | Stereoisomeric effects on mass spectral fragmentations of chloronorbornanones. <i>Organic Mass Spectrometry</i> , 1985 , 20, 757-764 | | 7 |
| 138 | Cactus alkaloids, LXI. Identification of mescaline and related compounds in eight additional species using tlc and ms/ms. <i>Journal of Natural Products</i> , 1986 , 49, 735-7 | 4.9 | 7 |
| 137 | Charge exchange using a double quadrupole mass spectrometer. <i>Analytica Chimica Acta</i> , 1980 , 119, 153-156 | 4.56 | 7 |
| 136 | Chemical modification of polynucleotides. Quantitative studies of polycytidylic acid by nuclear magnetic resonance spectroscopy and secondary-ion mass spectrometry. <i>Journal of Organic Chemistry</i> , 1981 , 46, 4770-4773 | 4.2 | 7 |
| 135 | Ion kinetic energy losses and excited state population in ion-molecule reactions. <i>Chemical Physics</i> , 1976 , 15, 295-301 | 2.3 | 7 |
| 134 | Changes in mold damaged wheat flours stored at various temperatures. Fluorescent compounds: 4,6,8(14),22-ergostetetraen-3-one and its C24-ethyl analog. <i>Journal of Agricultural and Food Chemistry</i> , 1970 , 18, 620-623 | 5.7 | 7 |
| 133 | Neighboring-Group Participation Reactions in the Mass Spectral Fragmentations of Some Azulenes. Comparisons with Solvolytic Processes. <i>Journal of Organic Chemistry</i> , 1970 , 35, 4048-4054 | 4.2 | 7 |
| 132 | Fine structure in the metastable peak-shapes in mass spectra. <i>Challenge</i> , 1971 , 1282-1283 | 0.8 | 7 |
| 131 | Reaction Acceleration Promoted by Partial Solvation at the Gas/Solution Interface. <i>ChemPlusChem</i> , 2021 , 86, 1362-1365 | 2.8 | 7 |
| 130 | Trace detection of inorganic oxidants using desorption electrospray ionization (DESI) mass spectrometry. <i>Open Chemistry</i> , 2011 , 9, 790-797 | 1.6 | 6 |
| 129 | Selective Photodissociation of Trapped Ions after Ion Cloud Manipulation with an Impulsive Quadrupolar Electric Field. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 5205-5209 | | 6 |
| 128 | Block microstructural characterization of copolymers formed from fluorinated and non-fluorinated alkyl polyisocyanates using desorption chemical ionization mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997 , 165-166, 391-404 | | 6 |
| 127 | Comparison of Tandem Mass Spectrometric Techniques Using Ion-trap and Hybrid Mass Spectrometers for Studies of the Degradation of a Herbicide by Biofilm 1997 , 11, 24-30 | | 6 |
| 126 | Microstructure of alkoxy and alkyl substituted isocyanate copolymers determined by desorption chemical ionization mass spectrometry. <i>Analytica Chimica Acta</i> , 1997 , 356, 149-154 | 6.6 | 6 |
| 125 | Desorption Electrospray Ionization (DESI) Analysis of Intact Proteins/Oligopeptides. <i>Cold Spring Harbor Protocols</i> , 2008 , 2008, pdb.prot4992 | 1.2 | 6 |
| 124 | Ion Soft Landing: Instrumentation, Phenomena, and Applications 2006 , 433-474 | | 6 |
| 123 | Analysis of nucleotides and oligonucleotides immobilized as self-assembled monolayers by static secondary ion mass spectrometry. <i>Biological Mass Spectrometry</i> , 1994 , 23, 653-9 | | 6 |

- 122 A multiquadrupole tandem mass spectrometer for the study of ion/surface collision processes. *Review of Scientific Instruments*, **2002**, 73, 2375-2391 1.7 6
- 121 Synthesis of silicon heterocycles via gas-phase silylium ion reactions with cyclic acetals and ketals. *Journal of the Chemical Society Perkin Transactions II*, **1999**, 2325-2332 6
- 120 Diels-Alder reactions of mass-selected ions in an ion trap mass spectrometer. *Rapid Communications in Mass Spectrometry*, **1995**, 9, 911-915 2.2 6
- 119 Ion/Molecule Reactions of Titanium and Titanium Dichloride Cations with Pyridine: Activation of the Pyridine Ring in the Gas Phase **1996**, 10, 927-931 6
- 118 Determination of ammonia, ethanol and acetic acid in solution using membrane introduction mass spectrometry. *Talanta*, **1994**, 41, 1237-45 6.2 6
- 117 Optical fiber interface between a laser and a tandem mass spectrometer. *Analytical Chemistry*, **1987**, 59, 1069-1071 7.8 6
- 116 Hydrogen elimination from the butyl cation. Energy partitioning and transition-state geometry. *International Journal of Mass Spectrometry and Ion Physics*, **1980**, 35, 293-298 6
- 115 $[C]^+$ and $[CH]^+$ from doubly charged ions formed from malononitrile. *Organic Mass Spectrometry*, **1975**, 10, 824-830 6
- 114 The role of frequency factors in determining the difference between low- and high-voltage mass spectra. *Chemical Communications / Chemical Society, London*, **1968**, 663-664 6
- 113 Doubly charged ions from labeled toluenes. Isotope effects, preference factors, and hydrogen randomization. *Journal of the American Chemical Society*, **1972**, 94, 1834-1836 16.4 6
- 112 Intraoperative Mass Spectrometry Platform for IDH Mutation Status Prediction, Glioma Diagnosis, and Estimation of Tumor Cell Infiltration. *Journal of applied laboratory medicine, The*, **2021**, 6, 902-916 2 6
- 111 Improving mass assignments in quadrupole ion traps operated using ac scans: Theory and experimental validation. *International Journal of Mass Spectrometry*, **2017**, 417, 1-7 1.9 5
- 110 Ion Isolation in a Linear Ion Trap Using Dual Resonance Frequencies. *Journal of the American Society for Mass Spectrometry*, **2016**, 27, 1906-1913 3.5 5
- 109 Chiral Analysis by Tandem Mass Spectrometry Using the Kinetic Method, by Polarimetry, and by 1H NMR Spectroscopy. *Journal of Chemical Education*, **2017**, 94, 1329-1333 2.4 5
- 108 On-Demand Ambient Ionization of Picoliter Samples Using Charge Pulses. *Angewandte Chemie*, **2015**, 127, 6997-6999 3.6 5
- 107 Fiducial Markers for Distribution of Drug and Excipient on Tablet Surfaces by Multimodal Desorption Electrospray Ionization-Mass Spectrometry (DESI-MS) Imaging. *Analytical Letters*, **2014**, 47, 91-101 2.2 5
- 106 Reactions of $BBr(n)^+$ ($n = 0-2$) at fluorinated and hydrocarbon self-assembled monolayer surfaces: observations of chemical selectivity in ion-surface scattering. *Journal of Mass Spectrometry*, **2001**, 36, 717-25 2.2 5
- 105 Activation of Dioxygen by Halocarbon Ions. *Journal of Physical Chemistry A*, **2000**, 104, 6804-6808 2.8 5

104	Affinity liquid membrane introduction mass spectrometry. <i>Analytica Chimica Acta</i> , 1999 , 395, 239-249	6.6	5
103	Pyrolytic and gas phase fullerene derivatization reactions. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1994 , 138, 209-219		5
102	Characterization of and energy deposition in [C ₂ H ₄ O ₂] ⁺ ions using energy-resolved mass spectrometry. <i>Organic Mass Spectrometry</i> , 1986 , 21, 101-103		5
101	Hybrid mass spectrometers: Versatile research instruments. <i>TrAC - Trends in Analytical Chemistry</i> , 1986 , 5, 236-240	14.6	5
100	Nucleophilic reactions between biological conjugates and tetraalkylammonium ion pair reagents during desorption chemical ionization. <i>Biomedical & Environmental Mass Spectrometry</i> , 1988 , 15, 571-6		5
99	Insights into coal structure from degradation with ruthenium tetroxide and tandem mass spectrometry. <i>Analytica Chimica Acta</i> , 1985 , 174, 211-223	6.6	5
98	Cluster ion structures formed by positive and negative chemical ionization of lactic and other hydroxyacids. <i>Organic Mass Spectrometry</i> , 1982 , 17, 519-523		5
97	The effects of stray magnetic fields upon mass and ion kinetic energy spectra. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1975 , 16, 343-347		5
96	Studies in mass spectrometry. Part XXI. Migrations to carbonium ion centres generated upon electron impact. <i>Journal of the Chemical Society C, Organic</i> , 1967 , 2601		5
95	Accelerated Forced Degradation of Therapeutic Peptides in Levitated Microdroplets. <i>Pharmaceutical Research</i> , 2020 , 37, 138	4.5	5
94	Temporal distribution of ions in ambient pressure drift tubes with turns. <i>International Journal of Mass Spectrometry</i> , 2020 , 456, 116391	1.9	5
93	Glass surface as strong base, 'green' heterogeneous catalyst and degradation reagent. <i>Chemical Science</i> , 2021 , 12, 9816-9822	9.4	5
92	Fragmentation of Polyfunctional Compounds Recorded Using Automated High-Throughput Desorption Electrospray Ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 2261-2273	3.5	5
91	Inter-platform assessment of performance of high-throughput desorption electrospray ionization mass spectrometry. <i>Talanta Open</i> , 2021 , 4, 100046	5.6	5
90	Unique capabilities of AC frequency scanning and its implementation on a Mars Organic Molecule Analyzer linear ion trap. <i>Analyst, The</i> , 2017 , 142, 2109-2117	5	4
89	Fourier Transform-Ion Mobility Linear Ion Trap Mass Spectrometer Using Frequency Encoding for Recognition of Related Compounds in a Single Acquisition. <i>Analytical Chemistry</i> , 2020 , 92, 5107-5115	7.8	4
88	Fatty Acid Patterns Detected By Ambient Ionization Mass Spectrometry in Canine Invasive Urothelial Carcinoma From Dogs of Different Breeds. <i>Bladder Cancer</i> , 2018 , 4, 283-291	1	4
87	Carbon-Carbon Bond Activation in Saturated Hydrocarbons by Field-Assisted Nitrogen Fixation. <i>Angewandte Chemie</i> , 2013 , 125, 1074-1077	3.6	4

86	Through a glass darkly: glimpses into the future of mass spectrometry. <i>Mass Spectrometry</i> , 2013 , 2, S0001-7	1.7	4
85	Desorption Electrospray Ionization: Proteomics Studies by a Method That Bridges ESI and MALDI. <i>Cold Spring Harbor Protocols</i> , 2008 , 2008, pdb.top37	1.2	4
84	Kinetic Isotope and Collision Energy Effects in the Dissociation of Chloride and Bromide Adducts of Aliphatic Alcohols, Benzaldehyde, and 2,4-Pentanedione. <i>Australian Journal of Chemistry</i> , 2003 , 56, 415	1.2	4
83	Differentiation of isomeric oxygenated adsorbates using low-energy ion/surface collisions. <i>International Journal of Mass Spectrometry</i> , 2003 , 230, 151-159	1.9	4
82	Depth profiling of multilayered samples and comparisons of secondary ion and laser desorption mass spectra in the same instrument. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1989 , 90, 97-118		4
81	THE ANALYSIS OF METALLOPORPHYRINS IN PETROLEUM USING TANDEM MASS SPECTROMETRY. <i>Petroleum Science and Technology</i> , 1986 , 4, 683-698		4
80	Desorption ionization/tandem mass spectrometry with a caesium ion source and a triple quadrupole mass spectrometer. <i>Talanta</i> , 1986 , 33, 1001-7	6.2	4
79	The relative rates of fragmentation of benzoyl ions generated upon electron impact from different precursors. <i>Chemical Communications / Chemical Society, London</i> , 1968 , 627		4
78	Fluorescent metabolites in mold-damaged wheat flour. <i>Experientia</i> , 1970 , 26, 1056-7		4
77	The question of hydrogen and randomization in phenyl isocyanide. <i>Organic Mass Spectrometry</i> , 1968 , 1, 910-912		4
76	Abundant Production of Reactive Water Radical Cations under Ambient Conditions. <i>CCS Chemistry</i> , 1-24	7.2	4
75	Collection and Characterization by Mass Spectrometry of the Neutral Serine Octamer Generated upon Sublimation. <i>Analytical Chemistry</i> , 2021 , 93, 1092-1099	7.8	4
74	Complex mixture analysis by two-dimensional mass spectrometry using a miniature ion trap. <i>Talanta Open</i> , 2021 , 3, 100028	5.6	4
73	Spontaneous Oxidation of Aromatic Sulfones to Sulfonic Acids in Microdroplets.. <i>Journal of the American Society for Mass Spectrometry</i> , 2022 ,	3.5	4
72	Ambient Lipidomic Analysis of Brain Tissue Using Desorption Electrospray Ionization (DESI) Mass Spectrometry. <i>Neuromethods</i> , 2017 , 187-210	0.4	3
71	Mass spectral methods of chiral analysis 2006 , 595-659		3
70	Membrane introduction mass spectrometry for monitoring complexation equilibria of beta-cyclodextrin with substituted benzenes. <i>Analyst, The</i> , 2003 , 128, 61-4	5	3
69	Direct Characterization of EnzymeSubstrate Complexes by Using Electrosonic Spray Ionization Mass Spectrometry. <i>Angewandte Chemie</i> , 2005 , 117, 935-938	3.6	3

68	International Mass Spectrometry Society (IMSS). <i>Journal of Mass Spectrometry</i> , 2001 , 36, 119-23	2.2	3
67	Special feature on electrospray ionization. <i>Journal of Mass Spectrometry</i> , 2000 , 35, 761	2.2	3
66	Fluorinated methyl cation (CF(3)(+), CFH(2)(+))-alkyl nitrile cluster ions. <i>Journal of Mass Spectrometry</i> , 2000 , 35, 1407-15	2.2	3
65	Dissociative charge exchange of C ₃ F ₆ . <i>Organic Mass Spectrometry</i> , 1991 , 26, 1008-1016		3
64	Tandem mass spectrometry at low kinetic energy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1987 , 29, 427-436	1.2	3
63	Patient-determined glycosylated hemoglobin measurements: an aid to patient education. <i>Diabetes Care</i> , 1981 , 4, 480-3	14.6	3
62	The structures of some products from the electrolysis of cyclohexane-1,3-dione and related compounds. <i>Journal of the Chemical Society C, Organic</i> , 1968 , 2199		3
61	The reactions with amines of disulphides derived from thiazolium salts. Part I. Primary and secondary amines. <i>Journal of the Chemical Society C, Organic</i> , 1968 , 2864		3
60	Multiple reaction monitoring profiling as an analytical strategy to investigate lipids in extracellular vesicles. <i>Journal of Mass Spectrometry</i> , 2021 , 56, e4681	2.2	3
59	Ambient Lipidomic Analysis of Single Mammalian Oocytes and Preimplantation Embryos Using Desorption Electrospray Ionization (DESI) Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2020 , 2064, 159-179	1.4	3
58	Quadrupole Mass Filters and Quadrupole Ion Traps 1997 , 213-238		3
57	Aldol Reactions of Biorenewable Triacetic Acid Lactone Precursor Evaluated Using Desorption Electrospray Ionization Mass Spectrometry High-Throughput Experimentation and Validated by Continuous Flow Synthesis. <i>ACS Combinatorial Science</i> , 2020 , 22, 796-803	3.9	3
56	High-Throughput Label-Free Enzymatic Assays Using Desorption Electrospray-Ionization Mass Spectrometry. <i>Angewandte Chemie</i> , 2020 , 132, 20639-20644	3.6	3
55	Molecular recognition of emerald ash borer infestation using leaf spray mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016 , 30, 1304-12	2.2	3
54	Nuclear Magnetic Resonance Structure Elucidation of Peptide b ₂ Ions. <i>Angewandte Chemie</i> , 2015 , 127, 1567-1570	3.6	2
53	Triple Resonance Methods to Improve Performance of Ion Trap Precursor and Neutral Loss Scans. <i>Journal of the American Society for Mass Spectrometry</i> , 2020 , 31, 1123-1131	3.5	2
52	High-throughput, low-cost reaction screening using a modified 3D printer. <i>Analyst, The</i> , 2019 , 144, 4978-4984	3.4	2
51	High-Throughput Bioassays using Dip-and-Go Multiplexed Electrospray Mass Spectrometry. <i>Angewandte Chemie</i> , 2019 , 131, 17758-17762	3.6	2

50	Correction for Wiseman et al., Mass Spectrometry Across the Sciences Special Feature: Desorption electrospray ionization mass spectrometry: Imaging drugs and metabolites in tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 6022-6022	11.5	2
49	Dissociation of ionized benzophenones investigated by the kinetic method: effective temperature, steric effects and gas-phase CO+* affinities of phenyl radicals. <i>Journal of Mass Spectrometry</i> , 2004 , 39, 558-64	2.2	2
48	Ersatz von CD durch PD bei cyclischen Acetalen und Ketalen. <i>Angewandte Chemie</i> , 1999 , 111, 399-401	3.6	2
47	Structural characterization of poly(N-alkyl-4-vinylpyridinium) triflates using pyrolysis/tandem mass spectrometry. <i>Talanta</i> , 1993 , 40, 363-79	6.2	2
46	Dependence on scattering angle of the internal energy distribution of products of charge-changing collisions. <i>Organic Mass Spectrometry</i> , 1993 , 28, 382-389		2
45	Organic reactions at interfaces: charge minimization in desorption ionization of Zwitterionic compounds. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1989 , 88, 113-132		2
44	Determination of the valence band offset at a HgTe/CdTe heterojunction by magnetooptics. <i>Superlattices and Microstructures</i> , 1988 , 4, 559-563	2.8	2
43	Effects of vacuum on tetrakis-isocyanide complexes of silver(I) and copper(I): Implications for sims analyses. <i>Talanta</i> , 1986 , 33, 917-8	6.2	2
42	The reactions with amines of disulphides derived from thiazolium salts. Part II. Tertiary and aromatic amines and the thiolation reaction. <i>Journal of the Chemical Society C, Organic</i> , 1968 , 2871		2
41	Studies in mass spectrometry. Part XXVIII. Hydrogen scrambling between phenyl rings of diphenylmethanol and diphenylmethyl chloride. <i>Journal of the Chemical Society B, Physical Organic</i> , 1968 , 522		2
40	Electron impact studies. VI. Mass spectra of esters and thioesters. Skeletal rearrangement on electron impact. <i>Australian Journal of Chemistry</i> , 1967 , 20, 689	1.2	2
39	Pd Reaction Intermediates in Suzuki-Miyaura Cross-Coupling Characterized by Mass Spectrometry.. <i>ChemPlusChem</i> , 2022 , e202100545	2.8	2
38	The mass spectra of hydroxyl compounds1045-1085		2
37	Novel Ion Trap Scan Modes to Develop Criteria for On-Site Detection of Sulfonamide Antibiotics. <i>Analytical Chemistry</i> , 2021 , 93, 13904-13911	7.8	2
36	Metabolic profiles of human brain parenchyma and glioma for rapid tissue diagnosis by targeted desorption electrospray ionization mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 6213-6224	4.4	2
35	Spontaneous Water Radical Cation Oxidation at Double Bonds in Microdroplets.. <i>Frontiers in Chemistry</i> , 2022 , 10, 903774	5	2
34	Desorption Electrospray Ionization: Methodology and Applications 2017 , 401-408		1
33	Jonathan W. Amy and the Amy Facility for Instrumentation Development. <i>Analytical Chemistry</i> , 2017 , 89, 5171-5173	7.8	1

32	Molecular Ionization from Carbon Nanotube Paper. <i>Angewandte Chemie</i> , 2014 , 126, 6046-6050	3.6	1
31	Paper Spray Ionization for Direct Analysis of Dried Blood Spots 2014 , 298-313		1
30	Innenrücktitelbild: Accelerated Carbon-Carbon Bond-Forming Reactions in Preparative Electrospray (Angew. Chem. 47/2012). <i>Angewandte Chemie</i> , 2012 , 124, 12075-12075	3.6	1
29	In Situ Desorption Electrospray Ionization (DESI) Analysis of Tissue Sections. <i>Cold Spring Harbor Protocols</i> , 2008 , 2008, pdb.prot4994	1.2	1
28	John Beynon at Purdue. <i>Rapid Communications in Mass Spectrometry</i> , 2004 , 18, 7-10	2.2	1
27	Gas-Phase Halide Affinity of Aliphatic Alcohols Estimated by the Kinetic Method. <i>European Journal of Mass Spectrometry</i> , 2004 , 10, 847-855	1.1	1
26	On-Line, In Situ Analysis with Membrane Introduction MS. <i>Environmental Science & Technology</i> , 1995 , 29, 215A-8A	10.3	1
25	Organizations in Mass Spectrometry: Past, Present and Future. <i>Journal of Mass Spectrometry</i> , 1996 , 31, 951-954	2.2	1
24	Chemical reactions at interfaces: Hydrogen-deuterium exchange using a solid ND ₄ Cl matrix in molecular secondary ion mass spectrometry. <i>Organic Mass Spectrometry</i> , 1993 , 28, 176-184		1
23	Novel Desorption Electrospray Ionization Mass Spectrometry Assay for Label-Free Characterization of SULT2B1b Enzyme Kinetics.. <i>ChemMedChem</i> , 2022 ,	3.7	1
22	Bacterial growth monitored by two-dimensional tandem mass spectrometry.. <i>Analyst, The</i> , 2022 ,	5	1
21	Immediate and sensitive detection of sporulated by microwave release and tandem mass spectrometry of dipicolinic acid. <i>Analyst, The</i> , 2021 , 146, 7104-7108	5	1
20	Late-Stage Functionalization and Characterization of Drugs by High-Throughput Desorption Electrospray Ionization Mass Spectrometry.. <i>ChemPlusChem</i> , 2022 , 87, e202100449	2.8	1
19	Automated High-Throughput System Combining Small-Scale Synthesis with Bioassays and Reaction Screening. <i>SLAS Technology</i> , 2021 , 26, 555-571	3	1
18	Discovery and Chemistry of Naturally-Occurring Anticancer Agents 1988 , 291-304		1
17	Cutting-edge developments in mass spectrometry: A hands-on workshop. <i>International Journal of Mass Spectrometry</i> , 2020 , 452, 116337	1.9	1
16	Reaction Acceleration at Solid/Solution Interfaces: Katritzky Reaction Catalyzed by Glass Particles. <i>Angewandte Chemie</i> , 2021 , 133, 2965-2969	3.6	1
15	Uncatalyzed, Regioselective Oxidation of Saturated Hydrocarbons in an Ambient Corona Discharge. <i>Angewandte Chemie</i> , 2018 , 130, 777-781	3.6	1

14	Nebulization Prior to Isolation, Ionization, and Dissociation of the Neutral Serine Octamer Allows Its Characterization. <i>Angewandte Chemie</i> , 2018 , 130, 17387-17391	3.6	1
13	Detection of Neutral CO Lost During Ionic Dissociation Using Atmospheric Pressure Thermal Dissociation Mass Spectrometry (APTD-MS). <i>Journal of the American Society for Mass Spectrometry</i> , 2018 , 29, 2317-2326	3.5	1
12	Space charge compensation in air by counterion flow in 3D printed electrode structure. <i>International Journal of Mass Spectrometry</i> , 2021 , 468, 116637	1.9	1
11	Exploratory analysis using MRM profiling mass spectrometry of a candidate metabolomics sample for testing system suitability. <i>International Journal of Mass Spectrometry</i> , 2021 , 468, 116663	1.9	1
10	CE and CD bond activation by transition metals in low energy atomic ion/surface collisions 1999 , 13, 172		1
9	Characterization of a serial array of miniature cylindrical ion trap mass analyzers 1999 , 13, 2444		1
8	Miniature mass spectrometer-based point-of-care assay for cabotegravir and rilpivirine in whole blood.. <i>Analytical and Bioanalytical Chemistry</i> , 2022 , 1	4.4	1
7	Atmospheric Pressure Drift Tube Ion Mobility Spectrometry Coupled with Two-Dimensional Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 2105-2109	3.5	0
6	Selective Gas-Phase Mass Tagging via Ion/Molecule Reactions Combined with Single Analyzer Neutral Loss Scans to Probe Pharmaceutical Mixtures. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 1092-1101	3.5	
5	Rücktitelbild: Molecular Ionization from Carbon Nanotube Paper (Angew. Chem. 23/2014). <i>Angewandte Chemie</i> , 2014 , 126, 6120-6120	3.6	
4	There are no new scans: comment on a new scan mode for the identification of multiply charged ions by Bruce A. Thomson and Igor V. Chernushevich, Rapid Commun. Mass Spectrom. 12, 1323 (1998). <i>Rapid Communications in Mass Spectrometry</i> , 1999 , 13, 752-754	2.2	
3	2-(1-Azulyl)ethyl tosylate methylene scrambling in the gas phase. Similarities to solution chemistry. <i>Organic Mass Spectrometry</i> , 1971 , 5, 785-788		
2	Ion traps and Piero Traldi: A brief appreciation. <i>Mass Spectrometry Reviews</i> , 2021 , e21753	11	
1	High Precision Mass Spectrometry with the Ion Trap Mass Spectrometer 1993 , 135-141		