

R Graham Cooks

List of Publications by Year in descending order

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1,090
papers

67,180
citations

700

121
h-index

2381

198
g-index

1135
all docs

1135
docs citations

1135
times ranked

18426
citing authors

#	ARTICLE	IF	CITATIONS
1	Mass Spectrometry Sampling Under Ambient Conditions with Desorption Electrospray Ionization. <i>Science</i> , 2004, 306, 471-473.	6.0	2,886
2	Ambient Mass Spectrometry. <i>Science</i> , 2006, 311, 1566-1570.	6.0	1,291
3	The Orbitrap: a new mass spectrometer. <i>Journal of Mass Spectrometry</i> , 2005, 40, 430-443.	0.7	1,091
4	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, 1261-1275.	0.7	773
5	Low-Temperature Plasma Probe for Ambient Desorption Ionization. <i>Analytical Chemistry</i> , 2008, 80, 9097-9104.	3.2	638
6	Paper Spray for Direct Analysis of Complex Mixtures Using Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 877-880.	7.2	620
7	Development, Characterization, and Application of Paper Spray Ionization. <i>Analytical Chemistry</i> , 2010, 82, 2463-2471.	3.2	599
8	Tissue Imaging at Atmospheric Pressure Using Desorption Electrospray Ionization (DESI) Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7188-7192.	7.2	530
9	Thermochemical determinations by the kinetic method. <i>Mass Spectrometry Reviews</i> , 1994, 13, 287-339.	2.8	496
10	Ambient desorption ionization mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2008, 27, 284-290.	5.8	492
11	Instrumentation, applications, and energy deposition in quadrupole ion-trap tandem mass spectrometry. <i>Analytical Chemistry</i> , 1987, 59, 1677-1685.	3.2	476
12	Extractive electrospray ionization for direct analysis of undiluted urine, milk and other complex mixtures without sample preparation. <i>Chemical Communications</i> , 2006, , 2042.	2.2	434
13	Mass spectrometry imaging under ambient conditions. <i>Mass Spectrometry Reviews</i> , 2013, 32, 218-243.	2.8	406
14	Proton affinities from dissociations of proton-bound dimers. <i>Journal of the American Chemical Society</i> , 1981, 103, 1313-1317.	6.6	404
15	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, 18120-18125.	3.3	400
16	Orbitrap mass spectrometry: Instrumentation, ion motion and applications. <i>Mass Spectrometry Reviews</i> , 2008, 27, 661-699.	2.8	390
17	Direct, trace level detection of explosives on ambient surfaces by desorption electrospray ionization mass spectrometry. <i>Chemical Communications</i> , 2005, , 1950-1952.	2.2	382
18	Majority Rules in the Copolymerization of Mirror Image Isomers. <i>Journal of the American Chemical Society</i> , 1995, 117, 4181-4182.	6.6	357

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19	Latent Fingerprint Chemical Imaging by Mass Spectrometry. <i>Science</i> , 2008, 321, 805-805.	6.0	353
20	Desorption electrospray ionization and other ambient ionization methods: current progress and preview. <i>Analyst</i> , 2010, 135, 669.	1.7	344
21	Desorption Electrospray Ionization of Explosives on Surfaces: A Sensitivity and Selectivity Enhancement by Reactive Desorption Electrospray Ionization. <i>Analytical Chemistry</i> , 2005, 77, 6755-6764.	3.2	332
22	Intrinsic basicity determination using metastable ions. <i>Journal of the American Chemical Society</i> , 1977, 99, 1279-1281.	6.6	330
23	Organic Reactions in Microdroplets: Reaction Acceleration Revealed by Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12960-12972.	7.2	329
24	Kinetic Method of Making Thermochemical Determinations: A Review of Advances and Applications. <i>Accounts of Chemical Research</i> , 1998, 31, 379-386.	7.6	328
25	Desorption Electrospray Ionization Mass Spectrometry for High-Throughput Analysis of Pharmaceutical Samples in the Ambient Environment. <i>Analytical Chemistry</i> , 2005, 77, 6915-6927.	3.2	326
26	Miniature and Fieldable Mass Spectrometers: Recent Advances. <i>Analytical Chemistry</i> , 2016, 88, 2-29.	3.2	319
27	Droplet Dynamics and Ionization Mechanisms in Desorption Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2006, 78, 8549-8555.	3.2	312
28	Collisions of polyatomic ions with surfaces. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1990, 100, 209-265.	1.9	290
29	Accelerated bimolecular reactions in microdroplets studied by desorption electrospray ionization mass spectrometry. <i>Chemical Science</i> , 2011, 2, 501-510.	3.7	278
30	Miniature Mass Spectrometers. <i>Annual Review of Analytical Chemistry</i> , 2009, 2, 187-214.	2.8	276
31	Classifying Human Brain Tumors by Lipid Imaging with Mass Spectrometry. <i>Cancer Research</i> , 2012, 72, 645-654.	0.4	273
32	Preparing Protein Microarrays by Soft-Landing of Mass-Selected Ions. <i>Science</i> , 2003, 301, 1351-1354.	6.0	261
33	Accelerated Reaction Kinetics in Microdroplets: Overview and Recent Developments. <i>Annual Review of Physical Chemistry</i> , 2020, 71, 31-51.	4.8	261
34	Mini 12, Miniature Mass Spectrometer for Clinical and Other Applications—Introduction and Characterization. <i>Analytical Chemistry</i> , 2014, 86, 2909-2916.	3.2	258
35	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, 1611-1616.	3.3	251
36	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, 4050-4058.	3.2	250

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37	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.	0.7	243
38	Chiroselective Self-Directed Octamerization of Serine: Implications for Homochirogenesis. <i>Analytical Chemistry</i> , 2001, 73, 3646-3655.	3.2	236
39	Rectilinear Ion Trap: Concepts, Calculations, and Analytical Performance of a New Mass Analyzer. <i>Analytical Chemistry</i> , 2004, 76, 4595-4605.	3.2	234
40	Miniature mass analyzers. <i>Journal of Mass Spectrometry</i> , 2000, 35, 659-671.	0.7	233
41	Handheld Rectilinear Ion Trap Mass Spectrometer. <i>Analytical Chemistry</i> , 2006, 78, 5994-6002.	3.2	232
42	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, 11121-11126.	3.3	230
43	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.	1.9	228
44	Mass Spectrometric Profiling of Intact Biological Tissue by Using Desorption Electrospray Ionization. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7094-7097.	7.2	224
45	Surface-induced dissociation of molecular ions. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1985, 67, 285-294.	1.9	222
46	Breaking the Pumping Speed Barrier in Mass Spectrometry: Discontinuous Atmospheric Pressure Interface. <i>Analytical Chemistry</i> , 2008, 80, 4026-4032.	3.2	222
47	Leaf Spray: Direct Chemical Analysis of Plant Material and Living Plants by Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 7608-7613.	3.2	219
48	Rapid, Direct Analysis of Cholesterol by Charge Labeling in Reactive Desorption Electrospray Ionization. <i>Analytical Chemistry</i> , 2009, 81, 7618-7624.	3.2	218
49	Membrane introduction Mass Spectrometry: Trends and applications. , 2000, 19, 1-37.		216
50	Direct Analysis of Biological Tissue by Paper Spray Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 1197-1201.	3.2	216
51	Copper(II)-Assisted Enantiomeric Analysis of α -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.	6.6	212
52	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.	1.9	210
53	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, 946-960.	1.2	210
54	Mechanisms in molecular SIMS. <i>Chemical Reviews</i> , 1987, 87, 647-669.	23.0	204

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55	Collisions of ions with surfaces at chemically relevant energies: Instrumentation and phenomena. Review of Scientific Instruments, 2001, 72, 3149-3179.	0.6	203
56	Soft-Landing of Polyatomic Ions at Fluorinated Self-Assembled Monolayer Surfaces. Science, 1997, 275, 1447-1450.	6.0	202
57	Quantitative Analysis of Therapeutic Drugs in Dried Blood Spot Samples by Paper Spray Mass Spectrometry: An Avenue to Therapeutic Drug Monitoring. Journal of the American Society for Mass Spectrometry, 2011, 22, 1501-1507.	1.2	197
58	Molecular secondary ion mass spectrometry. Analytical Chemistry, 1980, 52, 557-572.	3.2	193
59	Rapid in situ detection of alkaloids in plant tissue under ambient conditions using desorption electrospray ionization. Analyst, The, 2005, 130, 1624.	1.7	193
60	Systematic delineation of scan modes in multidimensional mass spectrometry. Analytical Chemistry, 1990, 62, 1809-1818.	3.2	188
61	Accelerated Carbon-Carbon Bond-Forming Reactions in Preparative Electrospray. Angewandte Chemie - International Edition, 2012, 51, 11832-11835.	7.2	186
62	Reactions of ions with organic surfaces. Accounts of Chemical Research, 1994, 27, 316-323.	7.6	185
63	Rapid Screening of Anabolic Steroids in Urine by Reactive Desorption Electrospray Ionization. Analytical Chemistry, 2007, 79, 8327-8332.	3.2	185
64	Simulated splashes: Elucidating the mechanism of desorption electrospray ionization mass spectrometry. Chemical Physics Letters, 2008, 464, 1-8.	1.2	183
65	Lipid and metabolite profiles of human brain tumors by desorption electrospray ionization-MS. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1486-1491.	3.3	183
66	Forensic analysis of inks by imaging desorption electrospray ionization (DESI) mass spectrometry. Analyst, The, 2007, 132, 461.	1.7	180
67	Silica Coated Paper Substrate for Paper-Spray Analysis of Therapeutic Drugs in Dried Blood Spots. Analytical Chemistry, 2012, 84, 931-938.	3.2	180
68	Accelerated Hantzsch electrospray synthesis with temporal control of reaction intermediates. Chemical Science, 2015, 6, 397-401.	3.7	180
69	Design and Characterization of a Multisource Hand-Held Tandem Mass Spectrometer. Analytical Chemistry, 2008, 80, 7198-7205.	3.2	177
70	Paper spray ionization devices for direct, biomedical analysis using mass spectrometry. International Journal of Mass Spectrometry, 2012, 312, 201-207.	0.7	171
71	Serine Octamers: Cluster Formation, Reactions, and Implications for Biomolecule Homochirality. Angewandte Chemie - International Edition, 2006, 45, 554-569.	7.2	170
72	Three-Dimensional Visualization of Mouse Brain by Lipid Analysis Using Ambient Ionization Mass Spectrometry. Angewandte Chemie - International Edition, 2010, 49, 873-876.	7.2	170

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73	Cholesterol Sulfate Imaging in Human Prostate Cancer Tissue by Desorption Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 3430-3434.	3.2	170
74	Ambient Ionization Mass Spectrometry for Point-of-Care Diagnostics and Other Clinical Measurements. <i>Clinical Chemistry</i> , 2016, 62, 99-110.	1.5	169
75	Oxygen and methylene adducts of C60 and C70. <i>Journal of the American Chemical Society</i> , 1991, 113, 5907-5908.	6.6	167
76	In Situ Trace Detection of Peroxide Explosives by Desorption Electrospray Ionization and Desorption Atmospheric Pressure Chemical Ionization. <i>Analytical Chemistry</i> , 2008, 80, 1512-1519.	3.2	167
77	Reaction of fullerenes and benzyne. <i>Journal of Organic Chemistry</i> , 1992, 57, 5069-5071.	1.7	164
78	Forensic applications of ambient ionization mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 1995-2008.	1.9	164
79	Assessment of paper spray ionization for quantitation of pharmaceuticals in blood spots. <i>International Journal of Mass Spectrometry</i> , 2011, 300, 123-129.	0.7	164
80	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, 7712-7718.	3.2	161
81	Mass Spectrometric Quantitation of Chiral Drugs by the Kinetic Method. <i>Analytical Chemistry</i> , 2001, 73, 1692-1698.	3.2	160
82	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, 531-543.	1.2	160
83	Ambient molecular imaging by desorption electrospray ionization mass spectrometry. <i>Nature Protocols</i> , 2008, 3, 517-524.	5.5	155
84	Detection of Explosives and Related Compounds by Low-Temperature Plasma Ambient Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 1084-1092.	3.2	152
85	Ion isolation and sequential stages of mass spectrometry in a quadrupole ion trap mass spectrometer. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1990, 96, 117-137.	1.9	151
86	Desorption electrospray ionization mass spectrometry for the analysis of pharmaceuticals and metabolites. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 387-392.	0.7	147
87	Multiple reaction monitoring in mass spectrometry/mass spectrometry for direct analysis of complex mixtures. <i>Analytical Chemistry</i> , 1978, 50, 2017-2021.	3.2	145
88	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, 539-549.	1.9	145
89	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, 2900-2908.	3.2	145
90	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.	3.3	145

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91	Rapid trace detection of triacetone triperoxide (TATP) by complexation reactions during desorption electrospray ionization. <i>Chemical Communications</i> , 2006, , 953.	2.2	142
92	Desorption Electrospray Ionization then MALDI Mass Spectrometry Imaging of Lipid and Protein Distributions in Single Tissue Sections. <i>Analytical Chemistry</i> , 2011, 83, 8366-8371.	3.2	142
93	Desorption Electrospray Ionization Mass Spectrometry for Trace Analysis of Agrochemicals in Food. <i>Analytical Chemistry</i> , 2009, 81, 820-829.	3.2	141
94	High-throughput trace melamine analysis in complex mixtures. <i>Chemical Communications</i> , 2009, , 556-558.	2.2	141
95	Spray mechanism in paper spray ionization. <i>International Journal of Mass Spectrometry</i> , 2012, 325-327, 167-171.	0.7	141
96	A Quadrupole Ion Trap with Cylindrical Geometry Operated in the Mass-Selective Instability Mode. <i>Analytical Chemistry</i> , 1998, 70, 438-444.	3.2	140
97	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.	1.3	137
98	Membrane Introduction Mass Spectrometry. <i>Analytical Chemistry</i> , 1991, 63, 875A-883A.	3.2	137
99	Kinetic Resolution of α -Amino Acids Based on Gas-Phase Dissociation of Copper(II) Complexes. <i>Analytical Chemistry</i> , 1999, 71, 4427-4429.	3.2	137
100	Amino Acid Clusters Formed by Sonic Spray Ionization. <i>Analytical Chemistry</i> , 2003, 75, 1514-1523.	3.2	137
101	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, 2969-2978.	1.9	137
102	Mass Spectrometry of Large, Fragile, and Involatile Molecules. <i>Science</i> , 1982, 218, 247-254.	6.0	135
103	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, 1577-1584.	0.7	133
104	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, 2883-2889.	1.2	133
105	Structure and fragmentation mechanisms of organic ions in the mass spectrometer. <i>Organic Mass Spectrometry</i> , 1969, 2, 137-156.	1.3	132
106	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.	6.6	132
107	Soft landing of ions as a means of surface modification. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1977, 23, 29-35.	1.3	131
108	Simulation of atmospheric transport and droplet-thin film collisions in desorption electrospray ionization. <i>Chemical Communications</i> , 2007, , 3915.	2.2	131

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109	Rapid analysis of whole blood by paper spray mass spectrometry for point-of-care therapeutic drug monitoring. <i>Analyst</i> , The, 2012, 137, 2344.	1.7	131
110	Ion Trap Mass Spectrometry. <i>Chemical & Engineering News</i> , 1991, 69, 26-41.	0.2	129
111	cis-Diol functional group recognition by reactive desorption electrospray ionization (DESI). <i>Chemical Communications</i> , 2006, , 597.	2.2	128
112	Secondary ion mass spectrometry. Cationization of organic molecules with metals. <i>Journal of the American Chemical Society</i> , 1978, 100, 5615-5621.	6.6	127
113	Injection of ions into a quadrupole ion trap mass spectrometer. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1989, 88, 97-111.	1.9	127
114	Quadrupole ion trap mass spectrometry. <i>Accounts of Chemical Research</i> , 1990, 23, 213-219.	7.6	127
115	Ion/surface collisions at functionalized self-assembled monolayer surfaces. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1992, 122, 181-217.	1.9	127
116	Miniature Cylindrical Ion Trap Mass Spectrometer. <i>Analytical Chemistry</i> , 2002, 74, 6145-6153.	3.2	126
117	Direct Plant Tissue Analysis and Imprint Imaging by Desorption Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 5754-5761.	3.2	126
118	Improved spatial resolution in the imaging of biological tissue using desorption electrospray ionization. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 389-398.	1.9	126
119	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.	0.7	125
120	Ion/surface reactions and ion soft-landing. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 1490.	1.3	125
121	Handheld Miniature Ion Trap Mass Spectrometers. <i>Analytical Chemistry</i> , 2009, 81, 2421-2425.	3.2	125
122	Nondestructive, Histologically Compatible Tissue Imaging by Desorption Electrospray Ionization Mass Spectrometry. <i>ChemBioChem</i> , 2011, 12, 2129-2132.	1.3	125
123	Mixture analysis by mass-analyzed ion kinetic energy spectrometry. <i>Analytical Chemistry</i> , 1976, 48, 2113-2119.	3.2	124
124	High throughput reaction screening using desorption electrospray ionization mass spectrometry. <i>Chemical Science</i> , 2018, 9, 1647-1653.	3.7	124
125	Matrix-assisted secondary ion mass spectra of biological compounds. <i>Analytical Chemistry</i> , 1981, 53, 109-113.	3.2	123
126	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.	0.7	123

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127	Quantitative analysis of small molecules by desorption electrospray ionization mass spectrometry from polytetrafluoroethylene surfaces. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 503-510.	0.7	123
128	Cationization of organic molecules in secondary ion mass spectrometry. <i>Journal of the American Chemical Society</i> , 1977, 99, 7725-7726.	6.6	122
129	Peer Reviewed: Chiral analysis by MS. <i>Analytical Chemistry</i> , 2003, 75, 25 A-31 A.	3.2	122
130	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, 1351-1358.	1.5	122
131	Extending the mass range of the quadrupole ion trap using axial modulation. <i>Rapid Communications in Mass Spectrometry</i> , 1989, 3, 225-229.	0.7	121
132	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.	1.3	120
133	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, 8758-8764.	3.2	119
134	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, 3675-3686.	3.2	118
135	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, 1721-1724.	7.2	117
136	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.	1.9	116
137	Coupling Desorption Electrospray Ionization with Ion Mobility/Mass Spectrometry for Analysis of Protein Structure: A Evidence for Desorption of Folded and Denatured States. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5045-5051.	1.2	116
138	Discrimination of Human Astrocytoma Subtypes by Lipid Analysis Using Desorption Electrospray Ionization Imaging Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5953-5956.	7.2	116
139	Quantitative paper spray mass spectrometry analysis of drugs of abuse. <i>Analyst, The</i> , 2013, 138, 4443.	1.7	116
140	Rapid analysis of metabolites and drugs of abuse from urine samples by desorption electrospray ionization-mass spectrometry. <i>Analyst, The</i> , 2007, 132, 868.	1.7	115
141	Induced Nanoelectrospray Ionization for Matrix-Tolerant and High-Throughput Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9907-9910.	7.2	115
142	Imaging of Lipids in Atheroma by Desorption Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 8702-8707.	3.2	112
143	Analysis of drugs of abuse in biofluids by low temperature plasma (LTP) ionization mass spectrometry. <i>Analyst, The</i> , 2010, 135, 927.	1.7	112
144	Non-proximate detection of explosives and chemical warfare agent simulants by desorption electrospray ionization mass spectrometry. <i>Chemical Communications</i> , 2006, , 2968-2970.	2.2	111

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145	A Miniature Cylindrical Quadrupole Ion Trap: A Simulation and Experiment. <i>Analytical Chemistry</i> , 1998, 70, 4896-4901.	3.2	110
146	Detection of explosives on skin using ambient ionization mass spectrometry. <i>Chemical Communications</i> , 2007, , 2142.	2.2	110
147	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, 247-267.	1.6	110
148	Desorption electrospray ionization with a portable mass spectrometer: in situ analysis of ambient surfaces. <i>Chemical Communications</i> , 2006, , 1709.	2.2	109
149	Monitoring Diet Effects via Biofluids and Their Implications for Metabolomics Studies. <i>Analytical Chemistry</i> , 2007, 79, 89-97.	3.2	109
150	Ambient Mass Spectrometry with a Handheld Mass Spectrometer at High Pressure. <i>Analytical Chemistry</i> , 2007, 79, 7734-7739.	3.2	109
151	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.	3.2	108
152	Direct analysis of Stevia leaves for diterpene glycosides by desorption electrospray ionization mass spectrometry. <i>Analyst, The</i> , 2009, 134, 867.	1.7	108
153	Low-Energy Ionic Collisions at Molecular Solids. <i>Chemical Reviews</i> , 2012, 112, 5356-5411.	23.0	107
154	Chemical Aspects of the Extractive Methods of Ambient Ionization Mass Spectrometry. <i>Annual Review of Physical Chemistry</i> , 2013, 64, 481-505.	4.8	107
155	Metastable loss of nitrosyl radical from aromatic nitro compounds. <i>Journal of the American Chemical Society</i> , 1973, 95, 1739-1745.	6.6	106
156	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, 7069-7077.	3.2	106
157	Paper spray: a simple and efficient means of analysis of different contaminants in foodstuffs. <i>Analyst, The</i> , 2012, 137, 2556.	1.7	106
158	Special feature: Historical. Collision-induced dissociation: Readings and commentary. <i>Journal of Mass Spectrometry</i> , 1995, 30, 1215-1221.	0.7	102
159	Serine Octamer Reactions: Indicators of Prebiotic Relevance. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3521-3523.	7.2	100
160	In situ analysis of agrochemical residues on fruit using ambient ionization on a handheld mass spectrometer. <i>Analyst, The</i> , 2011, 136, 4392.	1.7	100
161	Accelerated Chemical Reactions and Organic Synthesis in Leidenfrost Droplets. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10478-10482.	7.2	100
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