Robert B Cody

List of Publications by Citations

119 papers	5,897 citations	37 h-index	75 g-index
127 ext. papers	6,337 ext. citations	4.6 avg, IF	5.91 L-index

#	Paper	IF	Citations
119	Versatile new ion source for the analysis of materials in open air under ambient conditions. *Analytical Chemistry*, **2005**, 77, 2297-302	7.8	1957
118	Observation of molecular ions and analysis of nonpolar compounds with the direct analysis in real time ion source. *Analytical Chemistry*, **2009**, 81, 1101-7	7.8	281
117	Characterization of solid counterfeit drug samples by desorption electrospray ionization and direct-analysis-in-real-time coupled to time-of-flight mass spectrometry. *ChemMedChem*, **2006**, 1, 702-5	3.7	185
116	Collision-induced dissociation with Fourier transform mass spectrometry. *Analytical Chemistry*, **1982**, 54, 96-101	7.8	161
115	Differentiating writing inks using direct analysis in real time mass spectrometry. *Journal of Forensic Sciences*, **2006**, 51, 915-8	1.8	116
114	Collision-induced dissociation in a fourier-transform mass spectrometer. *International Journal of Mass Spectrometry and Ion Physics*, **1982**, 41, 199-204		114
113	Electron impact excitation of ions from organics: an alternative to collision induced dissociation. *Analytical Chemistry*, **1979**, 51, 547-551	7.8	108
112	Ambient generation of fatty acid methyl ester ions from bacterial whole cells by direct analysis in real time (DART) mass spectrometry. *Chemical Communications*, **2007**, 807-9	5.8	107
111	Laser ionization source for ion cyclotron resonance spectroscopy. Application to atomic metal ion chemistry. *International Journal of Mass Spectrometry and Ion Physics*, **1980**, 33, 37-43		104
110	Cuticular hydrocarbon analysis of an awake behaving fly using direct analysis in real-time time-of-flight mass spectrometry. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 7135-40	11.5	99
109	Applications of direct analysis in real time mass spectrometry (DART-MS) in Allium chemistry. 2-propenesulfenic and 2-propenesulfinic acids, diallyl trisulfane S-oxide, and other reactive sulfur compounds from crushed garlic and other Alliums. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 4617-25	5.7	93
108	Developments in analytical fourier-transform mass spectrometry. *Analytica Chimica Acta*, **1985**, 178, 43-66	6.6	89
107	Electrospray ionization/magnetic sector mass spectrometry: calibration, resolution, and accurate mass measurements. *Analytical Chemistry*, **1992**, 64, 1561-1570	7.8	80
106	Applications of direct analysis in real time-mass spectrometry (DART-MS) in Allium chemistry. (Z)-butanethial S-oxide and 1-butenyl thiosulfinates and their S-(E)-1-butenylcysteine S-oxide precursor from Allium siculum. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 1121-8	5.7	77
105	Selective ionization of melamine in powdered milk by using argon direct analysis in real time (DART) mass spectrometry. *Analyst, The*, **2010**, 135, 696-9	5	73
104	Temperature-dependent release of volatile organic compounds of eucalypts by direct analysis in real time (DART) mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2009**, 23, 2241-6	2.2	72
103	Peptide mixture sequencing by tandem Fourier-transform mass spectrometry. *Proceedings of the National Academy of Sciences of the United States of America*, **1985**, 82, 6367-70	11.5	72

102	Analysis of self-assembled monolayers on gold surfaces using direct analysis in real time mass spectrometry. *Analytical Chemistry*, **2007**, 79, 5479-83	7.8	65
101	Collision-induced dissociation of proton-bound alcohol dimers by Fourier-transform mass spectrometry. *Journal of the American Chemical Society*, **1982**, 104, 7436-7441	16.4	61
100	Hadamard transform measurement of tandem Fourier-transform mass spectra. *Analytical Chemistry* , **1990**, 62, 698-703	7.8	60
99	Direct analysis in real time mass spectrometry (DART-MS) of "bath salt" cathinone drug mixtures. *Analyst, The*, **2013**, 138, 3424-32	5	59
98	Direct analysis in real time mass spectrometry for analysis of sexual assault evidence. *Rapid Communications in Mass Spectrometry*, **2012**, 26, 1039-46	2.2	56
97	Direct analysis in real time mass spectrometry with collision-induced dissociation for structural analysis of synthetic cannabinoids. *Rapid Communications in Mass Spectrometry*, **2012**, 26, 2335-42	2.2	55
96	Energy-resolved tandem and fourier-transform mass spectrometry. *International Journal of Mass Spectrometry and Ion Physics*, **1982**, 44, 215-229		55
95	Soft ionization of saturated hydrocarbons, alcohols and nonpolar compounds by negative-ion direct analysis in real-time mass spectrometry. *Journal of the American Society for Mass Spectrometry*, **2013**, 24, 329-34	3.5	54
94	Consecutive collision-induced dissociations in Fourier transform mass spectrometry. *Analytical Chemistry*, **1982**, 54, 2225-2228	7.8	54
93	Distinguishing wild from cultivated agarwood (Aquilaria spp.) using direct analysis in real time and time of-flight mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2014**, 28, 281-9	2.2	53
92	Non-targeted analysis of electronics waste by comprehensive two-dimensional gas chromatography combined with high-resolution mass spectrometry: Using accurate mass information and mass defect analysis to explore the data. *Journal of Chromatography A*, **2015**, 1395, 152-9	4.5	45
91	Stored waveform inverse fourier transform excitation for obtaining increased parent ion selectivity in collisionally activated dissociation: Preliminary results. *Rapid Communications in Mass Spectrometry*, **1987**, 1, 99-102	2.2	45
90	Plant seed species identification from chemical fingerprints: a high-throughput application of direct analysis in real time mass spectrometry. *Analytical Chemistry*, **2015**, 87, 8748-57	7.8	44
89	High-resolution detection of collision-induced dissociation fragments by Fourier transform mass spectrometry. *Analytical Chemistry*, **1982**, 54, 1431-1433	7.8	44
88	A High Throughput Ambient Mass Spectrometric Approach to Species Identification and Classification from Chemical Fingerprint Signatures. *Scientific Reports*, **2015**, 5, 11520	4.9	43
87	Rapid detection by direct analysis in real time-mass spectrometry (DART-MS) of psychoactive plant drugs of abuse: the case of Mitragyna speciosa aka "Kratom". *Forensic Science International*, **2014**, 242, 210-218	2.6	42
86	Coordination chemistry of copper(I) in the gas phase. *Journal of the American Chemical Society*, **1979**, 101, 7127-7129	16.4	41
85	Rapid classification of White Oak (Quercus alba) and Northern Red Oak (Quercus rubra) by using pyrolysis direct analysis in real time (DART) and time-of-flight mass spectrometry. *Journal of Analytical and Applied Pyrolysis*, **2012**, 95, 134-137	6	40

84	Structural analysis of triacylglycerols by using a MALDI-TOF/TOF system with monoisotopic precursor selection. *Journal of the American Society for Mass Spectrometry*, **2013**, 24, 684-9	3.5	40
83	Electron monochromator mass spectrometry for the analysis of whole bacteria and bacterial spores. *Analytical Chemistry*, **2000**, 72, 2428-32	7.8	40
82	Development of "Laser Ablation Direct Analysis in Real Time Imaging" Mass Spectrometry: Application to Spatial Distribution Mapping of Metabolites Along the Biosynthetic Cascade Leading to Synthesis of Atropine and Scopolamine in Plant Tissue. *Analytical Chemistry*, **2017**, 89, 3421-3429	7.8	36
81	DART-MS in-source collision induced dissociation and high mass accuracy for new psychoactive substance determinations. *Forensic Science International*, **2014**, 244, 42-9	2.6	35
80	Inhibition by red phosphorus of unimolecular thermal chain-scission in poly(methyl methacrylate): Investigation by NMR, FT-IR and laser desorption/fourier transform mass spectroscopy. *Journal of Polymer Science Part A*, **1986**, 24, 1297-1311	2.5	35
79	Electron impact excitation of ions in Fourier transform mass spectrometry. *Analytical Chemistry*, **1987**, 59, 1054-1056	7.8	35
78	Analgesic potencies of morphine 3- and 6-sulfates after intracerebroventricular administration in mice: relationship to structural characteristics defined by mass spectrometry and nuclear magnetic resonance. *Journal of Pharmaceutical Sciences*, **1985**, 74, 821-4	3.9	33
77	Molecular Characterization of Volatiles and Petrochemical Base Oils by Photo-Ionization GC×GC-TOF-MS. *Analytical Chemistry*, **2017**, 89, 5395-5403	7.8	32
76	DART-MS: A New Analytical Technique for Forensic Paint Analysis. *Analytical Chemistry*, **2018**, 90, 6877-6884	7.8	32
75	Detection of mass 16 241 ions by Fourier-transform mass spectrometry. *Analytical Chemistry*, **1986**, 58, 483-5	7.8	32
74	Isomer discrimination of disubstituted benzene derivatives through gas-phase iron(I) ion reactions in a Fourier-transform mass spectrometer. *Analytical Chemistry*, **1989**, 61, 1889-1894	7.8	29
73	Laser desorption/fourier-transform mass-spectral analysis of molecular weight distribution and end-group composition of poly(p-phenylene)s synthesized by various routes. *Journal of Polymer Science, Polymer Letters Edition*, **1985**, 23, 453-463		27
72	Supercritical fluid chromatography/Fourier transform mass spectrometry. *Analytical Chemistry*, **1987**, 59, 1309-1312	7.8	26
71	Rapid Identification of Synthetic Cannabinoids in Herbal Incenses with DART-MS and NMR. *Journal of Forensic Sciences*, **2016**, 61 Suppl 1, S82-91	1.8	25
70	On the Kendrick Mass Defect Plots of Multiply Charged Polymer Ions: Splits, Misalignments, and How to Correct Them. *Journal of the American Society for Mass Spectrometry*, **2018**, 29, 1611-1626	3.5	24
69	Paper spray ionization for ambient inorganic analysis. *Rapid Communications in Mass Spectrometry*, **2014**, 28, 893-8	2.2	24
68	Identification of polymers and organic gunshot residue in evidence from 3D-printed firearms using DART-mass spectrometry: A feasibility study. *Forensic Chemistry*, **2017**, 5, 26-32	2.8	22
67	Direct analysis in real time high resolution mass spectrometry as a tool for rapid characterization of mind-altering plant materials and revelation of supplement adulteration--The case of Kanna. *Forensic Science International*, **2016**, 260, 66-73	2.6	22

66	Characterization of blood in an encrustation on an African mask: spectroscopic and direct analysis in real time mass spectrometric identification of haem. *Analyst, The*, **2013**, 138, 4470-4	5	22
65	Allium chemistry: Use of new instrumental techniques to see reactive organosulfur species formed upon crushing garlic and onion. *Pure and Applied Chemistry*, **2010**, 82, 535-539	2.1	22
64	High-resolution LC/MS for analysis of minor components in complex mixtures: negative ion ESI for identification of impurities and degradation products of a novel oligosaccharide antibiotic. *Journal of Mass Spectrometry*, **2000**, 35, 1252-8	2.2	22
63	Dopant-assisted direct analysis in real time mass spectrometry with argon gas. *Rapid Communications in Mass Spectrometry*, **2016**, 30, 1181-1189	2.2	22
62	Development and in-vitro characterization of nanoemulsions loaded with paclitaxel/tocotrienol lipid conjugates. *International Journal of Pharmaceutics*, **2018**, 536, 146-157	6.5	22
61	Forensic Application of DARTTM (Direct Analysis in Real Time) Mass Spectrometry175-195		20
60	Modified MALDI MS fatty acid profiling for bacterial identification. *Journal of Mass Spectrometry*, **2013**, 48, 850-5	2.2	19
59	Laser desorption/fourier transform mass spectra of poly(phenylene sulfide), polyaniline, poly(vinyl phenol), polypyrene, and related oligomers: Evidence for carbon clusters and feasibility of physical dimension measurement. *Journal of Polymer Science Part A*, **1988**, 26, 131-148	2.5	19
58	Crushing Garlic and Slicing Onions: Detection of Sulfenic Acids and Other Reactive Organosulfur Intermediates from Garlic and Other Alliums using Direct Analysis in Real-Time Mass Spectrometry (DART-MS). *Phosphorus, Sulfur and Silicon and the Related Elements*, **2011**, 186, 1085-1093	1	18
57	Capabilities of the remainders of nominal Kendrick masses and the referenced Kendrick mass defects for copolymer ions. *Journal of Mass Spectrometry*, **2017**, 52, 618-624	2.2	17
56	Identification of bacteria by fatty acid profiling with direct analysis in real time mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2015**, 29, 2007-12	2.2	17
55	Paper spray and Kendrick mass defect analysis of block and random ethylene oxide/propylene oxide copolymers. *Analytica Chimica Acta*, **2017**, 989, 38-44	6.6	16
54	Theory and application of dissociative electron capture in molecular identification. *Journal of Physical Chemistry A*, **2006**, 110, 4413-8	2.8	16
53	Polynuclear and halogenated structures in polyphenylenes synthesized from benzene, biphenyl, and p-terphenyl under various conditions: Characterization by laser desorption/fourier transform mass spectrometry. *Journal of Polymer Science Part A*, **1986**, 24, 255-267	2.5	16
52	Laser desorption/fourier transform mass spectral analysis of various conducting polymers. *Synthetic Metals*, **1986**, 15, 265-279	3.6	15
51	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
50	Compositional elucidation of heavy petroleum base oil by GC×GC-EI/PI/CI/FI-TOFMS. *Journal of Mass Spectrometry*, **2019**, 54, 148-157	2.2	15
49	Improved detection limits for electrospray ionization on a magnetic sector mass spectrometer by using an array detector. *Journal of the American Society for Mass Spectrometry*, **1994**, 5, 194-200	3.5	14

48	Accurate mass measurements on daughter ions from collisional activation in Fourier transform mass spectrometry. *Analytical Chemistry*, **1988**, 60, 917-923	7.8	14
47	Rapid Species-level Identification of Salvias by Chemometric Processing of Ambient Ionisation Mass Spectrometry-derived Chemical Profiles. *Phytochemical Analysis*, **2017**, 28, 16-26	3.4	13
46	Evidence for distinction of cis and trans isomers of mono-unsaturated fatty acids by fast-atom bombardment tandem mass spectrometric analysis. *Rapid Communications in Mass Spectrometry*, **1990**, 4, 239-241	2.2	13
45	Alternative mass reference standards for direct analysis in real time mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2016**, 30, 1206-1212	2.2	13
44	"Reverse Kendrick Mass Defect Analysis": Rotating Mass Defect Graphs to Determine Oligomer Compositions for Homopolymers. *Analytical Chemistry*, **2018**, 90, 12854-12860	7.8	13
43	Quantitation of anthocyanins in elderberry fruit extracts and nutraceutical formulations with paper spray ionization mass spectrometry. *Journal of Mass Spectrometry*, **2018**, 53, 58-64	2.2	12
42	Thermal desorption and pyrolysis direct analysis in real time mass spectrometry for qualitative characterization of polymers and polymer additives. *Rapid Communications in Mass Spectrometry*, **2020**, 34 Suppl 2, e8687	2.2	12
41	High-energy collision-induced dissociation by MALDI TOF/TOF causes charge-remote fragmentation of steroid sulfates. *Journal of the American Society for Mass Spectrometry*, **2014**, 25, 1404-11	3.5	11
40	Determination of the presence or absence of sulfur materials in drywall using direct analysis in real time in conjunction with an accurate-mass time-of-flight mass spectrometer. *Journal of the American Society for Mass Spectrometry*, **2009**, 20, 2082-6	3.5	11
39	A protocol for automated timber species identification using metabolome profiling. *Wood Science and Technology*, **2019**, 53, 953-965	2.5	10
38	Mechanosensitivity below Ground: Touch-Sensitive Smell-Producing Roots in the Shy Plant Mimosa pudica. *Plant Physiology*, **2016**, 170, 1075-89	6.6	10
37	What Is the Opposite of Pandora's Box? Direct Analysis, Ambient Ionization, and a New Generation of Atmospheric Pressure Ion Sources. *Mass Spectrometry*, **2013**, 2, S0007	1.7	10
36	Characterization and differentiation of high energy amine peroxides by direct analysis in real time TOF/MS **2007**,		10
35	Separation of the reagent ions from the reagent gas in ammonia chemical ionization mass spectrometry. *Analytical Chemistry*, **1989**, 61, 2511-2515	7.8	10
34	Graphical Ranking of Divisors to Get the Most out of a Resolution-Enhanced Kendrick Mass Defect Plot. *Analytical Chemistry*, **2019**, 91, 2004-2012	7.8	10
33	Spatial distributions of furan and 5-hydroxymethylfurfural in unroasted and roasted Coffea arabica beans. *Food Research International*, **2019**, 119, 725-732	7	9
32	Determination of phenylalanine isotope ratio enrichment by liquid chromatography/time- of-flight mass spectrometry. *European Journal of Mass Spectrometry*, **2004**, 10, 619-23	1.1	8
31	Making use of information contained in folded-back peaks to identify low mass ions in Fourier transform mass spectrometry. *Analytical Chemistry*, **1986**, 58, 670-671	7.8	8

30	Carbon-carbon double bond position elucidation in fatty acids using ozone-coupled direct analysis in real time mass spectrometry. *Analyst, The*, **2019**, 144, 5848-5855	5	7
29	Laser desorption/fourier transform mass spectral analysis of heterocyclic aromatic polymers. *Journal of Polymer Science, Part C: Polymer Letters*, **1986**, 24, 519-528		7
28	Automatic peak-unfolding routine for low mass detection in Fourier transform mass spectrometry. *Analytical Chemistry*, **1987**, 59, 2567-2569	7.8	7
27	Ambient Profiling of Phenolic Content in Tea Infusions by Matrix-Assisted Ionization in Vacuum. *Journal of the American Society for Mass Spectrometry*, **2018**, 29, 1594-1600	3.5	7
26	Bottom-up mass spectrometric sequencing of microRNA. *Analytical Methods*, **2014**, 6, 8829-8839	3.2	6
25	A study of the relative responses of surfactants examined by fast atom bombardment mass spectrometry and a modelled pulsed FAB-array detector system. *International Journal of Mass Spectrometry and Ion Processes*, **1992**, 122, 25-41		6
24	Rapid Fingerprinting of High-Molecular-Weight Polymers by Laser Desorption-Ionization Using Through-Hole Alumina Membrane High-Resolution Mass Spectrometry. *Analytical Chemistry*, **2020**, 92, 7399-7403	7.8	5
23	Follow-up comment on the use of alternative mass reference standards for Direct Analysis in Real Time mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2016**, 30, 2212-3	2.2	5
22	Resolution-Enhanced Kendrick Mass Defect Analysis of Polycyclic Aromatic Hydrocarbons and Fullerenes in the Diffusion Flame from a Butane Torch. *Journal of the American Society for Mass Spectrometry*, **2018**, 29, 2110-2113	3.5	5
21	Direct Analysis in Real-Time Ion Source **2010**,		5
20	Synthesis, characterization and differentiation of high energy amine peroxides by MS and vibrational microscopy **2006**, 6201, 693		5
19	Improved detection limits for fast atom bombardment mass spectrometry: A study of time-dependent desorption using a model pulsed bombardment ionization method. *Journal of the American Society for Mass Spectrometry*, **1992**, 3, 637-43	3.5	5
18	Real divisors and pseudo-continuous enhancement of resolution for a Kendrick mass defect analysis. *Rapid Communications in Mass Spectrometry*, **2019**, 33, 1547-1551	2.2	4
17	Saccharomyces cerevisiae and S. pastorianus species and strain differentiation by direct analysis in real time time-of-flight mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2020**, 34, e8835	2.2	4
16	Application of the Dual-Cell Fourier Transform Mass Spectrometer. *ACS Symposium Series*, **1987**, 59-80	0.4	4
15	Integrated qualitative analysis of polymer sample by pyrolysis-gas chromatography combined with high-resolution mass spectrometry: Using accurate mass measurement results from both electron ionization and soft ionization. *Rapid Communications in Mass Spectrometry*, **2020**, 34, e8820	2.2	3
14	Chapter 2:Direct Analysis in Real Time (DART). *New Developments in Mass Spectrometry*, **2014**, 23-57	2.3	3
13	Coated glass capillaries as SPME devices for DART mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2020**, 34, e8946	2.2	3

12	Elemental Composition Determinations Using the Abundant Isotope. *Journal of the American Society for Mass Spectrometry*, **2019**, 30, 1321-1324	3.5	2
11	Why Are We Still Reporting Mass Accuracy in Parts per Million (ppm)?. *Journal of the American Society for Mass Spectrometry*, **2020**, 31, 1004-1005	3.5	2
10	Rapid paper spray mass spectrometry characterization of uranium and exemplar molecular species. *Rapid Communications in Mass Spectrometry*, **2019**, 33, 1695-1702	2.2	2
9	Methyl nitrite as a low pressure chemical ionization reagent. *Analytical Chemistry*, **1982**, 54, 1245-1247	7.8	2
8	Cuticular hydrocarbons for identifying Sarcophagidae (Diptera). *Scientific Reports*, **2021**, 11, 7732	4.9	2
7	Improved detection of landmine components: using TEEM-GC-MS for detection of TNT and RDX in soil and other complex matrices **2003**,		1
6	Conductive Polymers and Carbon Clusters: Analysis of Chemical Composition by Nuclear Magnetic Resonance and Laser Desorption/Fourier Transform Mass Spectrometries. *Polymer-Plastics Technology and Engineering*, **1988**, 27, 487-507		1
5	Ultra-High Mass Resolution Miniaturized Time-of-Flight Mass Spectrometer □hfiTOF□ for Rapid Analysis of Polychlorinated Biphenyls. *Comprehensive Analytical Chemistry*, **2013**, 303-323	1.9	1
4	Cuticular hydrocarbons for the identification and geographic assignment of empty puparia of forensically important flies.. *International Journal of Legal Medicine*, **2022**, 1	3.1	1
3	Fast Pesticide Analysis Using Low-Pressure Gas Chromatography Paired with a Triple Quadrupole Mass Spectrometer Equipped with Short Collision Cell Technology.. *Rapid Communications in Mass Spectrometry*, **2022**, e9258	2.2	0
2	Integrated Data Analysis Making Use of the Total Information from Gas Chromatography and High-Resolution Time-of-Flight Mass Spectrometry to Identify Qualitative Differences Between Two Whisky Samples. *Rapid Communications in Mass Spectrometry*, **2021**, 36, e9225	2.2	0
1	Two-Dimensional Gas Chromatographic and Mass Spectrometric Characterization of Lipid-Rich Biological Matrices-Application to Human Cerumen (Earwax).. *ACS Omega*, **2022**, 7, 230-239	3.9	