David Smith

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Selected ion flow tube mass spectrometry (SIFT-MS) for on-line trace gas analysis. Mass Spectrometry Reviews, 2005, 24, 661-700.	2.8	683
2	The ion chemistry of interstellar clouds. Chemical Reviews, 1992, 92, 1473-1485.	23.0	348
3	Quantitative analysis of ammonia on the breath of patients in end-stage renal failure. Kidney International, 1997, 52, 223-228.	2.6	328
4	A longitudinal study of ammonia, acetone and propanol in the exhaled breath of 30 subjects using selected ion flow tube mass spectrometry, SIFT-MS. Physiological Measurement, 2006, 27, 321-337.	1.2	323
5	Progress in SIFTâ€MS: Breath analysis and other applications. Mass Spectrometry Reviews, 2011, 30, 236-267.	2.8	289
6	Time variation of ammonia, acetone, isoprene and ethanol in breath: a quantitative SIFT-MS study over 30 days. Physiological Measurement, 2003, 24, 107-119.	1.2	210
7	Selected ion flow tube studies of the reactions of H3O+, NO+, and O2+ with several aromatic and aliphatic hydrocarbons. International Journal of Mass Spectrometry, 1998, 181, 1-10.	0.7	205
8	SIFT studies of the reactions of H3O+, NO+ and O2+ with a series of alcohols. International Journal of Mass Spectrometry and Ion Processes, 1997, 167-168, 375-388.	1.9	196
9	Kinetic energy, temperature, and derived rotational temperature dependences for the reactions of Kr+(2P3/2) and Ar+ with HCl. Journal of Chemical Physics, 1990, 93, 1149-1157.	1.2	195
10	SIFT studies of the reactions of H3O+, NO+ and O2+ with a series of aldehydes and ketones. International Journal of Mass Spectrometry and Ion Processes, 1997, 165-166, 25-37.	1.9	194
11	lons in the terrestrial atmosphere and in interstellar clouds. Mass Spectrometry Reviews, 1995, 14, 255-278.	2.8	166
12	Breath Analysis: The Approach Towards Clinical Applications. Mini-Reviews in Medicinal Chemistry, 2007, 7, 115-129.	1.1	166
13	The Novel Selected-ion Flow Tube Approach to Trace Gas Analysis of Air and Breath. , 1996, 10, 1183-1198.		154
14	A longitudinal study of ethanol and acetaldehyde in the exhaled breath of healthy volunteers using selected-ion flow-tube mass spectrometry. Rapid Communications in Mass Spectrometry, 2006, 20, 61-68.	0.7	148
15	A general method for the calculation of absolute trace gas concentrations in air and breath from selected ion flow tube mass spectrometry data. International Journal of Mass Spectrometry, 2006, 249-250, 230-239.	0.7	148
16	Mass spectrometry for real-time quantitative breath analysis. Journal of Breath Research, 2014, 8, 027101.	1.5	147
17	An experimental survey of the reactions of NHn+ ions (n = 0 to 4) with several diatomic and polyatomic molecules at 300 K. Journal of Chemical Physics, 1980, 72, 288-297.	1.2	143
18	Mass Spectrometric Analysis of Exhaled Breath for the Identification of Volatile Organic Compound Biomarkers in Esophageal and Gastric Adenocarcinoma. Annals of Surgery, 2015, 262, 981-990.	2.1	138

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19	Quantification of acetaldehyde released by lung cancer cellsin vitrousing selected ion flow tube mass spectrometry. Rapid Communications in Mass Spectrometry, 2003, 17, 845-850.	0.7	137
20	Hydrogen cyanide as a biomarker for <i>Pseudomonas aeruginosa</i> in the breath of children with cystic fibrosis. Pediatric Pulmonology, 2009, 44, 142-147.	1.0	135
21	Selected Ion Flow Tube Mass Spectrometry Analysis of Exhaled Breath for Volatile Organic Compound Profiling of Esophago-Gastric Cancer. Analytical Chemistry, 2013, 85, 6121-6128.	3.2	135
22	Analysis of breath, exhaled via the mouth and nose, and the air in the oral cavity. Journal of Breath Research, 2008, 2, 037013.	1.5	133
23	A longitudinal study of breath isoprene in healthy volunteers using selected ion flow tube mass spectrometry (SIFT-MS). Physiological Measurement, 2006, 27, 13-22.	1.2	131
24	Application of ion chemistry and the SIFT technique to the quantitative analysis of trace gases in air and on breath. International Reviews in Physical Chemistry, 1996, 15, 231-271.	0.9	130
25	Detection of volatile compounds emitted byPseudomonas aeruginosa using selected ion flow tube mass spectrometry. Pediatric Pulmonology, 2005, 39, 452-456.	1.0	130
26	Microscopic effects on chloride diffusivity of cement pastes—a scale-transition analysis. Cement and Concrete Research, 2004, 34, 2251-2260.	4.6	125
27	The challenge of breath analysis for clinical diagnosis and therapeutic monitoring. Analyst, The, 2007, 132, 390-396.	1.7	125
28	A longitudinal study of methanol in the exhaled breath of 30 healthy volunteers using selected ion flow tube mass spectrometry, SIFT-MS. Physiological Measurement, 2006, 27, 637-648.	1.2	122
29	Compounds enhanced in a mass spectrometric profile of smokers' exhaled breath versus non-smokers as determined in a pilot study using PTR-MS. Journal of Breath Research, 2008, 2, 026002.	1.5	119
30	Breath acetone concentration; biological variability and the influence of diet. Physiological Measurement, 2011, 32, N23-N31.	1.2	119
31	SIFT studies of the reactions of H3O+, NO+ and O+2 with a series of volatile carboxylic acids and esters. International Journal of Mass Spectrometry and Ion Processes, 1998, 172, 137-147.	1.9	118
32	Formation of C60â^' and C70â^' by free electron capture. Activation energy and effect of the internal energy on lifetime. Chemical Physics Letters, 1994, 226, 213-218.	1.2	117
33	An exploratory comparative study of volatile compounds in exhaled breath and emitted by skin using selected ion flow tube mass spectrometry. Rapid Communications in Mass Spectrometry, 2008, 22, 526-532.	0.7	116
34	Reactions of Hydrated Hydronium Ions and Hydrated Hydroxide Ions with Some Hydrocarbons and Oxygen-Bearing Organic Molecules. The Journal of Physical Chemistry, 1995, 99, 15551-15556.	2.9	111
35	Volatile metabolites in the exhaled breath of healthy volunteers: their levels and distributions. Journal of Breath Research, 2007, 1, 014004.	1.5	110
36	Plasma Volume, Albumin, and Fluid Status in Peritoneal Dialysis Patients. Clinical Journal of the American Society of Nephrology: CJASN, 2010, 5, 1463-1470.	2.2	106

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37	Ambient analysis of trace compounds in gaseous media by SIFT-MS. Analyst, The, 2011, 136, 2009.	1.7	104
38	Direct, rapid quantitative analyses of BVOCs using SIFT-MS and PTR-MS obviating sample collection. TrAC - Trends in Analytical Chemistry, 2011, 30, 945-959.	5.8	98
39	Quantification of acetonitrile in exhaled breath and urinary headspace using selected ion flow tube mass spectrometry. International Journal of Mass Spectrometry, 2003, 228, 655-665.	0.7	96
40	Dissociative recombination of H3+ and some other interstellar ions: a controversy resolved. International Journal of Mass Spectrometry and Ion Processes, 1993, 129, 163-182.	1.9	93
41	Can volatile compounds in exhaled breath be used to monitor control in diabetes mellitus?. Journal of Breath Research, 2011, 5, 022001.	1.5	91
42	Isoprene levels in the exhaled breath of 200 healthy pupils within the age range 7–18 years studied using SIFT-MS. Journal of Breath Research, 2010, 4, 017101.	1.5	90
43	A selected ion flow tube mass spectrometry study of ammonia in mouth―and noseâ€exhaled breath and in the oral cavity. Rapid Communications in Mass Spectrometry, 2008, 22, 783-789.	0.7	88
44	Formation and decay of Câ^'60 following free electron capture by C60. Journal of Chemical Physics, 1995, 102, 2516-2521.	1.2	85
45	Acetone, ammonia and hydrogen cyanide in exhaled breath of several volunteers aged 4–83 years. Journal of Breath Research, 2007, 1, 011001.	1.5	83
46	Quantification of breath isoprene using the selected ion flow tube mass spectrometric analytical method. , 1999, 13, 1733-1738.		81
47	A selected ion flow tube study of the reactions of H3O+, NO+, and O2+ with saturated and unsaturated aldehydes and subsequent hydration of the product ions. International Journal of Mass Spectrometry, 2002, 213, 163-176.	0.7	80
48	On-line measurement of the absolute humidity of air, breath and liquid headspace samples by selected ion flow tube mass spectrometry. Rapid Communications in Mass Spectrometry, 2001, 15, 563-569.	0.7	78
49	On-line, simultaneous quantification of ethanol, some metabolites and water vapour in breath following the ingestion of alcohol. Physiological Measurement, 2002, 23, 477-489.	1.2	78
50	Selected ion flow tube, SIFT, studies of the reactions of H3O+, NO+ and O2+ with eleven C10H16 monoterpenes. International Journal of Mass Spectrometry, 2003, 228, 117-126.	0.7	78
51	OH production in the dissociative recombination of H3O(+), HCO2(+), and N2OH(+) - Comparison with theory and interstellar implications. Astrophysical Journal, 1990, 349, 388.	1.6	78
52	Selected ion flow tube studies of the reactions of H3O+, NO+, and O2+ with several amines and some other nitrogen-containing molecules. International Journal of Mass Spectrometry, 1998, 176, 203-211.	0.7	76
53	Hydrogen cyanide, a volatile biomarker of <i>Pseudomonas aeruginosa</i> infection. Journal of Breath Research, 2013, 7, 044001.	1.5	76
54	A new â€~online' method to measure increased exhaled isoprene in endâ€stage renal failure. Nephrology Dialysis Transplantation, 2001, 16, 836-839.	0.4	75

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55	On-line, real time monitoring of exhaled trace gases by SIFT-MS in the perioperative setting: a feasibility study. Analyst, The, 2011, 136, 3233.	1.7	75
56	Quantification of ammonia in human breath by the selected ion flow tube analytical method using H3O+ and O2+ precursor ions. , 1998, 12, 763-766.		74
57	Electron attachment to C60 at low energies. Chemical Physics Letters, 1993, 213, 202-206.	1.2	73
58	Selected Ion Flow Tube Mass Spectrometry Analysis of Volatile Metabolites in Urine Headspace for the Profiling of Gastro-Esophageal Cancer. Analytical Chemistry, 2013, 85, 3409-3416.	3.2	72
59	Selected ion flow tube studies of the reactions of H3O+, NO+, and O2+ with some organosulphur molecules. International Journal of Mass Spectrometry, 1998, 176, 167-176.	0.7	71
60	Measurements of the dissociative recombination coefficients for several polyatomic ion species at 300 K. Chemical Physics Letters, 1988, 144, 11-14.	1.2	69
61	A quantitative study of the influence of inhaled compounds on their concentrations in exhaled breath. Journal of Breath Research, 2013, 7, 017106.	1.5	68
62	On the synthesis of c-C3H2 in interstellar clouds. Astrophysical Journal, 1987, 317, L25.	1.6	67
63	Concurrent use of H3O+, NO+, and O2+ precursor ions for the detection and quantification of diverse trace gases in the presence of air and breath by selected ion-flow tube mass spectrometry. International Journal of Mass Spectrometry, 2001, 209, 81-97.	0.7	66
64	Breath analysis of ammonia, volatile organic compounds and deuterated water vapor in chronic kidney disease and during dialysis. Bioanalysis, 2014, 6, 843-857.	0.6	65
65	Mutual neutralization of simple and clustered positive and negative ions. Journal of Chemical Physics, 1978, 68, 1224-1229.	1.2	64
66	Elementary plasma reactions of environmental interest. Topics in Current Chemistry, 1980, , 1-43.	4.0	64
67	Hydrogen cyanide concentrations in the breath of adult cystic fibrosis patients with and without <i>Pseudomonas aeruginosa</i> infection. Journal of Breath Research, 2013, 7, 026010.	1.5	63
68	Reactions of H3O+ and OHâ^' ions with some organic molecules; applications to trace gas analysis in air. International Journal of Mass Spectrometry and Ion Processes, 1995, 145, 177-186.	1.9	62
69	Quantification of pentane in exhaled breath, a potential biomarker of bowel disease, using selected ion flow tube mass spectrometry. Rapid Communications in Mass Spectrometry, 2013, 27, 1983-1992.	0.7	62
70	Analysis of ketones by selected ion flow tube mass spectrometry. Rapid Communications in Mass Spectrometry, 2003, 17, 2655-2660.	0.7	61
71	Quantification of trace levels of the potential cancer biomarkers formaldehyde, acetaldehyde and propanol in breath by SIFT-MS. Journal of Breath Research, 2008, 2, 046003.	1.5	61
72	lonic diffusion and mass discrimination effects in the new generation of short flow tube SIFT-MS instruments. International Journal of Mass Spectrometry, 2009, 281, 15-23.	0.7	61

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73	Selected ion flow tube mass spectrometry of urine headspace. , 1999, 13, 724-729.		60
74	Quantitative selected ion flow tube mass spectrometry: The influence of ionic diffusion and mass discrimination. Journal of the American Society for Mass Spectrometry, 2001, 12, 863-872.	1.2	60
75	Quantification of acetaldehyde and carbon dioxide in the headspace of malignant and non-malignant lung cells in vitro by SIFT-MS. Analyst, The, 2009, 134, 2419.	1.7	60
76	A selected ion flow tube (SIFT), study of the reactions of H3O+, NO+ and O2+ ions with a series of alkenes; in support of SIFT-MS. International Journal of Mass Spectrometry, 2002, 218, 87-101.	0.7	59
77	Advances in On-line Absolute Trace Gas Analysis by SIFT-MS. Current Analytical Chemistry, 2013, 9, 525-539.	0.6	59
78	SIFT studies of the reactions of H3O+, NO+ and O2+ with several ethers. International Journal of Mass Spectrometry and Ion Processes, 1998, 172, 239-247.	1.9	58
79	On-line determination of the deuterium abundance in breath water vapour by flowing afterglow mass spectrometry with applications to measurements of total body water. Rapid Communications in Mass Spectrometry, 2001, 15, 25-32.	0.7	57
80	Selected Ion Flow Tube-MS Analysis of Headspace Vapor from Gastric Content for the Diagnosis of Gastro-Esophageal Cancer. Analytical Chemistry, 2012, 84, 9550-9557.	3.2	57
81	Quantification of hydrogen cyanide in humid air by selected ion flow tube mass spectrometry. Rapid Communications in Mass Spectrometry, 2004, 18, 1869-1873.	0.7	56
82	lsotope exchange and collisional association in the reactions of CH3+ and its deuterated analogs with H2, HD, and D2. Journal of Chemical Physics, 1982, 77, 1261-1268.	1.2	54
83	Selected ion flow tube studies of the reactions of H3O+, NO+, and O2+ with several aromatic and aliphatic monosubstituted halocarbons. International Journal of Mass Spectrometry, 1999, 189, 213-223.	0.7	53
84	Accuracy and precision of flowing afterglow mass spectrometry for the determination of the deuterium abundance in the headspace of aqueous liquids and exhaled breath water. Rapid Communications in Mass Spectrometry, 2001, 15, 867-872.	0.7	53
85	Dissociative attachment reactions of electrons with strong acid molecules. Journal of Chemical Physics, 1986, 84, 6728-6731.	1.2	52
86	A selected ion flow tube study of the reactions of NO+and O+2ions with some organic molecules: The potential for trace gas analysis of air. Journal of Chemical Physics, 1996, 104, 1893-1899.	1.2	52
87	Maternal plasma corticotropin-releasing hormone trajectories vary depending on the cause of preterm delivery. American Journal of Obstetrics and Gynecology, 2002, 186, 257-260.	0.7	52
88	A continuous wavelet transform algorithm for peak detection. Electrophoresis, 2008, 29, 4215-4225.	1.3	52
89	A selected ion flow tube study of the reactions of the PH+n ions (n=0 to 4) with several molecular gases at 300 K. Journal of Chemical Physics, 1989, 90, 6213-6219.	1.2	51
90	Selected ion flow tube studies of the reactions of H3O+, NO+, and O2+ with some chloroalkanes and chloroalkenes. International Journal of Mass Spectrometry, 1999, 184, 175-181.	0.7	49

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91	A selected ion-flow tube study of the reactions of O+, H+ and HeH]+ with several molecular gases at 300 K. International Journal of Mass Spectrometry and Ion Processes, 1992, 117, 457-473.	1.9	47
92	Reactions of the HnS+ ions (n = 0 to 3) with several molecular gases at thermal energies. Journal of Chemical Physics, 1981, 75, 3365-3370.	1.2	46
93	Analysis of petrol and diesel vapour and vehicle engine exhaust gases using selected ion flow tube mass spectrometry. Rapid Communications in Mass Spectrometry, 2002, 16, 1124-1134.	0.7	46
94	The concentration distributions of some metabolites in the exhaled breath of young adults. Journal of Breath Research, 2007, 1, 026001.	1.5	46
95	Breath concentration of acetic acid vapour is elevated in patients with cystic fibrosis. Journal of Breath Research, 2016, 10, 021002.	1.5	46
96	Quantification of volatile metabolites in exhaled breath by selected ion flow tube mass spectrometry, SIFT-MS. Clinical Mass Spectrometry, 2020, 16, 18-24.	1.9	46
97	A brief review of interstellar ion chemistry. Journal of the Chemical Society, Faraday Transactions 2, 1989, 85, 1613.	1.1	45
98	Effects of dietary nutrients on volatile breath metabolites. Journal of Nutritional Science, 2013, 2, e34.	0.7	45
99	Development of the flowing afterglow/Langmuir probe technique for studying the neutral products of dissociative recombination using spectroscopic techniques: OH production in the HCO+2+ereaction. Journal of Chemical Physics, 1989, 91, 963-973.	1.2	44
100	Gas phase reactions of some positive ions with atomic and molecular hydrogen at 300 K. Journal of Chemical Physics, 1997, 106, 3982-3987.	1.2	44
101	Quantification of hydrogen sulphide in humid air by selected ion flow tube mass spectrometry. Rapid Communications in Mass Spectrometry, 2000, 14, 1136-1140.	0.7	44
102	Increase of acetone and ammonia in urine headspace and breath during ovulation quantified using selected ion flow tube mass spectrometry. Physiological Measurement, 2003, 24, 191-199.	1.2	44
103	Theoretical Analysis of Anion Exclusion and Diffusive Transport Through Platy-Clay Soils. Transport in Porous Media, 2004, 57, 251-277.	1.2	44
104	Analysis of the isobaric compounds propanol, acetic acid and methyl formate in humid air and breath by selected ion flow tube mass spectrometry, SIFT-MS. International Journal of Mass Spectrometry, 2009, 285, 42-48.	0.7	44
105	Combining Near-Subject Absolute and Relative Measures of Longitudinal Hydration in Hemodialysis. Clinical Journal of the American Society of Nephrology: CJASN, 2009, 4, 1791-1798.	2.2	43
106	Pentane and other volatile organic compounds, including carboxylic acids, in the exhaled breath of patients with Crohn's disease and ulcerative colitis. Journal of Breath Research, 2018, 12, 016002.	1.5	43
107	Dissociative recombination of H+3. Experiment and theory reconciled. Chemical Physics Letters, 1993, 211, 454-460.	1.2	42
108	The Selected Ion Flow Tube Method for Workplace Analyses of Trace Gases in Air and Breath: Its Scope, Validation, and Applications. Journal of Occupational and Environmental Hygiene, 1998, 13, 817-823.	0.5	42

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109	A selected ion flow tube study of the reactions of H3O+, NO+ and O2+• with some phenols, phenyl alcohols and cyclic carbonyl compounds in support of SIFT-MS and PTR-MS. International Journal of Mass Spectrometry, 2004, 239, 139-146.	0.7	42
110	Generation of volatile compounds on mouth exposure to urea and sucrose: implications for exhaled breath analysis. Physiological Measurement, 2006, 27, N7-N17.	1.2	42
111	SPME-GC-MS versus Selected Ion Flow Tube Mass Spectrometry (SIFT-MS) Analyses for the Study of Volatile Compound Generation and Oxidation Status during Dry Fermented Sausage Processing. Journal of Agricultural and Food Chemistry, 2011, 59, 1931-1938.	2.4	42
112	FALP studies of the dissociative recombination coefficients for O2+ and NO+ within the electron temperature range 300–2000 K. International Journal of Mass Spectrometry and Ion Processes, 1993, 129, 183-191.	1.9	41
113	Ion-molecule calculation of the abundance ratio of CCD to CCH in dense interstellar clouds. Astrophysical Journal, 1987, 312, 351.	1.6	41
114	Influence of weakly bound adduct ions on breath trace gas analysis by selected ion flow tube mass spectrometry (SIFT-MS). International Journal of Mass Spectrometry, 2009, 280, 128-135.	0.7	40
115	Volatile compounds in health and disease. Current Opinion in Clinical Nutrition and Metabolic Care, 2011, 14, 455-460.	1.3	40
116	Rapid measurement of deuterium content of breath following oral ingestion to determine body water. Physiological Measurement, 2001, 22, 651-659.	1.2	39
117	Ammonia release from heated â€~street' cannabis leaf and its potential toxic effects on cannabis users. Addiction, 2008, 103, 1671-1677.	1.7	39
118	Quantitative analysis of volatile metabolites released <i>in vitro</i> by bacteria of the genus <i>Stenotrophomonas</i> for identification of breath biomarkers of respiratory infection in cystic fibrosis Journal of Breath Research, 2015, 9, 027104.	1.5	39
119	Quantification of volatile compounds in the headspace of aqueous liquids using selected ion flow tube mass spectrometry. Rapid Communications in Mass Spectrometry, 2002, 16, 2148-2153.	0.7	38
120	SIFT-MS and FA-MS methods for ambient gas phase analysis: developments and applications in the UK. Analyst, The, 2015, 140, 2573-2591.	1.7	38
121	Unimolecular decomposition of a polyatomic ion in a variable-temperature selected-ion-flow-drift tube: experiment and theoretical interpretation. International Journal of Mass Spectrometry and Ion Processes, 1990, 96, 77-96.	1.9	37
122	Quantification by SIFT-MS of acetaldehyde released by lung cells in a 3D model. Analyst, The, 2013, 138, 91-95.	1.7	37
123	Acetone, butanone, pentanone, hexanone and heptanone in the headspace of aqueous solution and urine studied by selected ion flow tube mass spectrometry. Rapid Communications in Mass Spectrometry, 2009, 23, 1097-1104.	0.7	36
124	An investigation of suitable bag materials for the collection and storage of breath samples containing hydrogen cyanide. Journal of Breath Research, 2012, 6, 036004.	1.5	36
125	Association reactions. Theoretical shortcomings. Journal of the Chemical Society, Faraday Transactions 2, 1989, 85, 1655.	1.1	35
126	Selected ion flow tube, SIFT, studies of the reactions of H3O+, NO+ and O2+ with compounds released by Pseudomonas and related bacteria. International Journal of Mass Spectrometry, 2004, 233, 245-251.	0.7	35

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127	Selected Ion Flow-Drift Tube Mass Spectrometry: Quantification of Volatile Compounds in Air and Breath. Analytical Chemistry, 2015, 87, 12151-12160.	3.2	35
128	A selected ion flow tube, SIFT, study of the reactions of H3O+, NO+ and O2+ ions with several N- and O-containing heterocyclic compounds in support of SIFT-MS. International Journal of Mass Spectrometry, 2004, 237, 167-174.	0.7	34
129	Solute transport in cartilage undergoing cyclic deformation. Computer Methods in Biomechanics and Biomedical Engineering, 2007, 10, 265-278.	0.9	34
130	Timeâ€resolved selected ion flow tube mass spectrometric quantification of the volatile compounds generated by <i>E. coli</i> JM109 cultured in two different media. Rapid Communications in Mass Spectrometry, 2011, 25, 2163-2172.	0.7	33
131	Reactions of the selected ion flow tube mass spectrometry reagent ions H ₃ O ⁺ and NO ⁺ with a series of volatile aldehydes of biogenic significance. Rapid Communications in Mass Spectrometry, 2014, 28, 1917-1928.	0.7	33
132	FALP studies of electron attachment at elevated electron temperatures: the influence of attachment on electron energy distributions. International Journal of Mass Spectrometry and Ion Processes, 1993, 129, 193-203.	1.9	32
133	A selected ion flow tube, SIFT, study of the reactions of H3O+, NO+ and O2+ ions with a series of diols. International Journal of Mass Spectrometry, 2002, 218, 227-236.	0.7	32
134	Bronchoalveolar lavage examined by solid phase microextraction, gas chromatography–mass spectrometry and selected ion flow tube mass spectrometry. Journal of Microbiological Methods, 2006, 65, 76-86.	0.7	32
135	Pitfalls in the analysis of volatile breath biomarkers: suggested solutions and SIFT–MS quantification of single metabolites. Journal of Breath Research, 2015, 9, 022001.	1.5	32
136	Understanding Gas Phase Ion Chemistry Is the Key to Reliable Selected Ion Flow Tube-Mass Spectrometry Analyses. Analytical Chemistry, 2020, 92, 12750-12762.	3.2	32
137	Status of selected ion flow tube MS: accomplishments and challenges in breath analysis and other areas. Bioanalysis, 2016, 8, 1183-1201.	0.6	31
138	Comparative effects of temperature and kinetic energy change on the reaction of O2+ with CH4 and CD4. International Journal of Mass Spectrometry and Ion Processes, 1985, 67, 67-74.	1.9	30
139	Selected ion flow tube studies of the reactions of H3O+, NO+, and O2+ with eleven amine structural isomers of c5h13n. International Journal of Mass Spectrometry, 1999, 185-187, 139-147.	0.7	30
140	Comparative measurements of total body water in healthy volunteers by online breath deuterium measurement and other near-subject methods. American Journal of Clinical Nutrition, 2002, 76, 1295-1301.	2.2	30
141	What is the real utility of breath ammonia concentration measurements in medicine and physiology?. Journal of Breath Research, 2018, 12, 027102.	1.5	30
142	A SIFT study of the reactions of H2ONO+ ions with several types of organic molecules. International Journal of Mass Spectrometry, 2003, 230, 1-9.	0.7	29
143	The quantification of carbon dioxide in humid air and exhaled breath by selected ion flow tube mass spectrometry. Rapid Communications in Mass Spectrometry, 2009, 23, 1419-1425.	0.7	28
144	Human Uterine Wall Tension Trajectories and the Onset of Parturition. PLoS ONE, 2010, 5, e11037.	1.1	28

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145	Quantification by SIFT-MS of volatile compounds emitted by in vitro cultures of S. aureus, S. pneumoniae and H. influenzae isolated from patients with respiratory diseases. Analytical Methods, 2014, 6, 2460.	1.3	28
146	Determination of the proton affinities of H2O and CS2 relative to C2H4. Chemical Physics Letters, 1988, 148, 142-148.	1.2	27
147	Competitive association and charge transfer in the reactions of NO+ with some ketones: a selected ion flow drift tube study. International Journal of Mass Spectrometry, 1999, 193, 35-43.	0.7	27
148	Quantification of hydrogen cyanide and 2-aminoacetophenone in the headspace of Pseudomonas aeruginosa cultured under biofilm and planktonic conditions. Analytical Methods, 2012, 4, 3661.	1.3	27
149	Laboratory Studies of Dissociative Recombination and Mutual Neutralization and Their Relevance to Interstellar Chemistry. Astrophysics and Space Science Library, 1988, , 173-192.	1.0	27
150	On-line analysis of diesel engine exhaust gases by selected ion flow tube mass spectrometry. Rapid Communications in Mass Spectrometry, 2004, 18, 2830-2838.	0.7	26
151	Selected ion flow tube mass spectrometry of 3-hydroxybutyric acid, acetone and other ketones in the headspace of aqueous solution and urine. International Journal of Mass Spectrometry, 2008, 272, 78-85.	0.7	26
152	Quantification of volatile compounds released by roasted coffee by selected ion flow tube mass spectrometry. Rapid Communications in Mass Spectrometry, 2018, 32, 739-750.	0.7	26
153	Is interstellar acetone produced by ion-molecule chemistry?. Astrophysical Journal, 1990, 358, 468.	1.6	26
154	FALP studies of electron attachment reactions of C6F5Cl, C6F5Br and C6F5I. International Journal of Mass Spectrometry and Ion Processes, 1989, 87, 331-342.	1.9	25
155	Studies of interstellar ion reactions using the SIFT technique: isotope fractionation. Accounts of Chemical Research, 1992, 25, 414-420.	7.6	25
156	Electron attachment to and in the gas phase. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, 5199-5212.	0.6	25
157	Selected ion flow tube mass spectrometry analyses of stable isotopes in water: Isotopic composition of H3O+ and H3O+(H2O)3 ions in exchange reactions with water vapor. Journal of the American Society for Mass Spectrometry, 2000, 11, 866-875.	1.2	25
158	Modelling the Behaviour of Ligaments: A Technical Note. Computer Methods in Biomechanics and Biomedical Engineering, 2004, 7, 33-42.	0.9	25
159	A non-invasive, on-line deuterium dilution technique for the measurement of total body water in haemodialysis patients. Nephrology Dialysis Transplantation, 2008, 23, 2064-2070.	0.4	25
160	Product ion distributions for the reactions of NO+ with some physiologically significant aldehydes obtained using a SRI-TOF-MS instrument. International Journal of Mass Spectrometry, 2014, 363, 23-31.	0.7	25
161	A study of reactions of CnH+m ions (n = 4, 5, 6; m = 0 –6) with H2 and CO at 300 K and 80 K. International Journal of Mass Spectrometry and Ion Processes, 1989, 89, 303-317.	1.9	24
162	A selected ion flow tube study of the reactions of H3O+, NO+ and O2+• with seven isomers of hexanol in support of SIFT-MS. International Journal of Mass Spectrometry, 2012, 319-320, 25-30.	0.7	24

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163	Increase of methanol in exhaled breath quantified by SIFT-MS following aspartame ingestion. Journal of Breath Research, 2015, 9, 047104.	1.5	24
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