

David Smith

List of Publications by Year in descending order

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255
papers

14,100
citations

16451

64
h-index

30087

103
g-index

257
all docs

257
docs citations

257
times ranked

5897
citing authors

#	ARTICLE	IF	CITATIONS
1	Selected ion flow tube mass spectrometry (SIFT-MS) for on-line trace gas analysis. <i>Mass Spectrometry Reviews</i> , 2005, 24, 661-700.	5.4	683
2	The ion chemistry of interstellar clouds. <i>Chemical Reviews</i> , 1992, 92, 1473-1485.	47.7	348
3	Quantitative analysis of ammonia on the breath of patients in end-stage renal failure. <i>Kidney International</i> , 1997, 52, 223-228.	5.2	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. <i>Physiological Measurement</i> , 2006, 27, 321-337.	2.1	323
5	Progress in SIFT-MS: Breath analysis and other applications. <i>Mass Spectrometry Reviews</i> , 2011, 30, 236-267.	5.4	289
6	Time variation of ammonia, acetone, isoprene and ethanol in breath: a quantitative SIFT-MS study over 30 days. <i>Physiological Measurement</i> , 2003, 24, 107-119.	2.1	210
7	Selected ion flow tube studies of the reactions of H ₃ O ⁺ , NO ⁺ , and O ₂ ⁺ with several aromatic and aliphatic hydrocarbons. <i>International Journal of Mass Spectrometry</i> , 1998, 181, 1-10.	1.5	205
8	SIFT studies of the reactions of H ₃ O ⁺ , NO ⁺ and O ₂ ⁺ with a series of alcohols. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 167-168, 375-388.	1.8	196
9	Kinetic energy, temperature, and derived rotational temperature dependences for the reactions of Kr ⁺ (2P _{3/2}) and Ar ⁺ with HCl. <i>Journal of Chemical Physics</i> , 1990, 93, 1149-1157.	3.0	195
10	SIFT studies of the reactions of H ₃ O ⁺ , NO ⁺ and O ₂ ⁺ with a series of aldehydes and ketones. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 165-166, 25-37.	1.8	194
11	Ions in the terrestrial atmosphere and in interstellar clouds. <i>Mass Spectrometry Reviews</i> , 1995, 14, 255-278.	5.4	166
12	Analysis of formaldehyde in the headspace of urine from bladder and prostate cancer patients using selected ion flow tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1999, 13, 1354-1359.	1.5	166
13	Breath Analysis: The Approach Towards Clinical Applications. <i>Mini-Reviews in Medicinal Chemistry</i> , 2007, 7, 115-129.	2.4	166
14	Trace gases in breath of healthy volunteers when fasting and after a protein-calorie meal: a preliminary study. <i>Journal of Applied Physiology</i> , 1999, 87, 1584-1588.	2.5	160
15	The Novel Selected-ion Flow Tube Approach to Trace Gas Analysis of Air and Breath. , 1996, 10, 1183-1198.		154
16	A longitudinal study of ethanol and acetaldehyde in the exhaled breath of healthy volunteers using selected-ion flow-tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 61-68.	1.5	148
17	A general method for the calculation of absolute trace gas concentrations in air and breath from selected ion flow tube mass spectrometry data. <i>International Journal of Mass Spectrometry</i> , 2006, 249-250, 230-239.	1.5	148
18	Mass spectrometry for real-time quantitative breath analysis. <i>Journal of Breath Research</i> , 2014, 8, 027101.	3.0	147

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19	An experimental survey of the reactions of NH_n^+ ions ($n=0$ to 4) with several diatomic and polyatomic molecules at 300 K. <i>Journal of Chemical Physics</i> , 1980, 72, 288-297.	3.0	143
20	Mass Spectrometric Analysis of Exhaled Breath for the Identification of Volatile Organic Compound Biomarkers in Esophageal and Gastric Adenocarcinoma. <i>Annals of Surgery</i> , 2015, 262, 981-990.	4.2	138
21	Quantification of acetaldehyde released by lung cancer cells using selected ion flow tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 845-850.	1.5	137
22	Hydrogen cyanide as a biomarker for <i>Pseudomonas aeruginosa</i> in the breath of children with cystic fibrosis. <i>Pediatric Pulmonology</i> , 2009, 44, 142-147.	2.0	135
23	Selected Ion Flow Tube Mass Spectrometry Analysis of Exhaled Breath for Volatile Organic Compound Profiling of Esophago-Gastric Cancer. <i>Analytical Chemistry</i> , 2013, 85, 6121-6128.	6.5	135
24	Studies of Electron Attachment at Thermal Energies Using the Flowing Afterglow Langmuir Probe Technique. <i>Advances in Atomic, Molecular and Optical Physics</i> , 1994, 32, 307-343.	2.3	134
25	Analysis of breath, exhaled via the mouth and nose, and the air in the oral cavity. <i>Journal of Breath Research</i> , 2008, 2, 037013.	3.0	133
26	A longitudinal study of breath isoprene in healthy volunteers using selected ion flow tube mass spectrometry (SIFT-MS). <i>Physiological Measurement</i> , 2006, 27, 13-22.	2.1	131
27	Application of ion chemistry and the SIFT technique to the quantitative analysis of trace gases in air and on breath. <i>International Reviews in Physical Chemistry</i> , 1996, 15, 231-271.	2.3	130
28	Detection of volatile compounds emitted by <i>Pseudomonas aeruginosa</i> using selected ion flow tube mass spectrometry. <i>Pediatric Pulmonology</i> , 2005, 39, 452-456.	2.0	130
29	The challenge of breath analysis for clinical diagnosis and therapeutic monitoring. <i>Analyst</i> , 2007, 132, 390-396.	3.5	125
30	A longitudinal study of methanol in the exhaled breath of 30 healthy volunteers using selected ion flow tube mass spectrometry, SIFT-MS. <i>Physiological Measurement</i> , 2006, 27, 637-648.	2.1	122
31	Selected ion flow tube - mass spectrometry: detection and real-time monitoring of flavours released by food products. <i>Rapid Communications in Mass Spectrometry</i> , 1999, 13, 585-596.	1.5	120
32	Compounds enhanced in a mass spectrometric profile of smokers' exhaled breath versus non-smokers as determined in a pilot study using PTR-MS. <i>Journal of Breath Research</i> , 2008, 2, 026002.	3.0	119
33	Breath acetone concentration; biological variability and the influence of diet. <i>Physiological Measurement</i> , 2011, 32, N23-N31.	2.1	119
34	SIFT studies of the reactions of H_3O^+ , NO^+ and O_2^+ with a series of volatile carboxylic acids and esters. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1998, 172, 137-147.	1.8	118
35	Formation of C_6O^+ and C_7O^+ by free electron capture. Activation energy and effect of the internal energy on lifetime. <i>Chemical Physics Letters</i> , 1994, 226, 213-218.	2.6	117
36	An exploratory comparative study of volatile compounds in exhaled breath and emitted by skin using selected ion flow tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 526-532.	1.5	116

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37	Reactions of Hydrated Hydronium Ions and Hydrated Hydroxide Ions with Some Hydrocarbons and Oxygen-Bearing Organic Molecules. <i>The Journal of Physical Chemistry</i> , 1995, 99, 15551-15556.	2.9	111
38	Volatile metabolites in the exhaled breath of healthy volunteers: their levels and distributions. <i>Journal of Breath Research</i> , 2007, 1, 014004.	3.0	110
39	Plasma Volume, Albumin, and Fluid Status in Peritoneal Dialysis Patients. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2010, 5, 1463-1470.	4.5	106
40	Ambient analysis of trace compounds in gaseous media by SIFT-MS. <i>Analyst</i> , The, 2011, 136, 2009.	3.5	104
41	Direct, rapid quantitative analyses of BVOCs using SIFT-MS and PTR-MS obviating sample collection. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 945-959.	11.4	98
42	Quantification of acetonitrile in exhaled breath and urinary headspace using selected ion flow tube mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2003, 228, 655-665.	1.5	96
43	Dissociative recombination of H ₃ ⁺ and some other interstellar ions: a controversy resolved. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1993, 129, 163-182.	1.8	93
44	Can volatile compounds in exhaled breath be used to monitor control in diabetes mellitus?. <i>Journal of Breath Research</i> , 2011, 5, 022001.	3.0	91
45	Isoprene levels in the exhaled breath of 200 healthy pupils within the age range 7-18 years studied using SIFT-MS. <i>Journal of Breath Research</i> , 2010, 4, 017101.	3.0	90
46	A selected ion flow tube mass spectrometry study of ammonia in mouth- and nose-exhaled breath and in the oral cavity. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 783-789.	1.5	88
47	Formation and decay of C ₆₀ ⁻ following free electron capture by C ₆₀ . <i>Journal of Chemical Physics</i> , 1995, 102, 2516-2521.	3.0	85
48	Acetone, ammonia and hydrogen cyanide in exhaled breath of several volunteers aged 4-83 years. <i>Journal of Breath Research</i> , 2007, 1, 011001.	3.0	83
49	Quantification of breath isoprene using the selected ion flow tube mass spectrometric analytical method. , 1999, 13, 1733-1738.		81
50	A selected ion flow tube study of the reactions of H ₃ O ⁺ , NO ⁺ , and O ₂ ⁺ with saturated and unsaturated aldehydes and subsequent hydration of the product ions. <i>International Journal of Mass Spectrometry</i> , 2002, 213, 163-176.	1.5	80
51	On-line measurement of the absolute humidity of air, breath and liquid headspace samples by selected ion flow tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 563-569.	1.5	78
52	On-line, simultaneous quantification of ethanol, some metabolites and water vapour in breath following the ingestion of alcohol. <i>Physiological Measurement</i> , 2002, 23, 477-489.	2.1	78
53	Selected ion flow tube, SIFT, studies of the reactions of H ₃ O ⁺ , NO ⁺ and O ₂ ⁺ with eleven C ₁₀ H ₁₆ monoterpenes. <i>International Journal of Mass Spectrometry</i> , 2003, 228, 117-126.	1.5	78
54	OH production in the dissociative recombination of H ₃ O ⁽⁺⁾ , HCO ₂ ⁽⁺⁾ , and N ₂ OH ⁽⁺⁾ - Comparison with theory and interstellar implications. <i>Astrophysical Journal</i> , 1990, 349, 388.	4.5	78

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55	Selected ion flow tube studies of the reactions of H ₃ O ⁺ , NO ⁺ , and O ₂ ⁺ with several amines and some other nitrogen-containing molecules. <i>International Journal of Mass Spectrometry</i> , 1998, 176, 203-211.	1.5	76
56	Hydrogen cyanide, a volatile biomarker of <i>Pseudomonas aeruginosa</i> infection. <i>Journal of Breath Research</i> , 2013, 7, 044001.	3.0	76
57	A new "online" method to measure increased exhaled isoprene in end-stage renal failure. <i>Nephrology Dialysis Transplantation</i> , 2001, 16, 836-839.	0.7	75
58	On-line, real time monitoring of exhaled trace gases by SIFT-MS in the perioperative setting: a feasibility study. <i>Analyst</i> , 2011, 136, 3233.	3.5	75
59	Quantification of ammonia in human breath by the selected ion flow tube analytical method using H ₃ O ⁺ and O ₂ ⁺ precursor ions. , 1998, 12, 763-766.		74
60	Electron attachment to C ₆₀ at low energies. <i>Chemical Physics Letters</i> , 1993, 213, 202-206.	2.6	73
61	Selected Ion Flow Tube Mass Spectrometry Analysis of Volatile Metabolites in Urine Headspace for the Profiling of Gastro-Esophageal Cancer. <i>Analytical Chemistry</i> , 2013, 85, 3409-3416.	6.5	72
62	Selected ion flow tube studies of the reactions of H ₃ O ⁺ , NO ⁺ , and O ₂ ⁺ with some organosulphur molecules. <i>International Journal of Mass Spectrometry</i> , 1998, 176, 167-176.	1.5	71
63	Influence of water vapour on selected ion flow tube mass spectrometric analyses of trace gases in humid air and breath. <i>Rapid Communications in Mass Spectrometry</i> , 2000, 14, 1898-1906.	1.5	70
64	Measurements of the dissociative recombination coefficients for several polyatomic ion species at 300 K. <i>Chemical Physics Letters</i> , 1988, 144, 11-14.	2.6	69
65	A quantitative study of the influence of inhaled compounds on their concentrations in exhaled breath. <i>Journal of Breath Research</i> , 2013, 7, 017106.	3.0	68
66	On the synthesis of c-C ₃ H ₂ in interstellar clouds. <i>Astrophysical Journal</i> , 1987, 317, L25.	4.5	67
67	Concurrent use of H ₃ O ⁺ , NO ⁺ , and O ₂ ⁺ 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. <i>International Journal of Mass Spectrometry</i> , 2001, 209, 81-97.	1.5	66
68	Breath analysis of ammonia, volatile organic compounds and deuterated water vapor in chronic kidney disease and during dialysis. <i>Bioanalysis</i> , 2014, 6, 843-857.	1.5	65
69	Mutual neutralization of simple and clustered positive and negative ions. <i>Journal of Chemical Physics</i> , 1978, 68, 1224-1229.	3.0	64
70	Elementary plasma reactions of environmental interest. <i>Topics in Current Chemistry</i> , 1980, , 1-43.	4.0	64
71	Hydrogen cyanide concentrations in the breath of adult cystic fibrosis patients with and without <i>Pseudomonas aeruginosa</i> infection. <i>Journal of Breath Research</i> , 2013, 7, 026010.	3.0	63
72	Reactions of H ₃ O ⁺ and OH [•] ions with some organic molecules; applications to trace gas analysis in air. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995, 145, 177-186.	1.8	62

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73	Quantification of pentane in exhaled breath, a potential biomarker of bowel disease, using selected ion flow tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 1983-1992.	1.5	62
74	Analysis of ketones by selected ion flow tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2655-2660.	1.5	61
75	Quantification of trace levels of the potential cancer biomarkers formaldehyde, acetaldehyde and propanol in breath by SIFT-MS. <i>Journal of Breath Research</i> , 2008, 2, 046003.	3.0	61
76	Ionic diffusion and mass discrimination effects in the new generation of short flow tube SIFT-MS instruments. <i>International Journal of Mass Spectrometry</i> , 2009, 281, 15-23.	1.5	61
77	Selected ion flow tube mass spectrometry of urine headspace. , 1999, 13, 724-729.		60
78	Quantitative selected ion flow tube mass spectrometry: The influence of ionic diffusion and mass discrimination. <i>Journal of the American Society for Mass Spectrometry</i> , 2001, 12, 863-872.	2.8	60
79	Quantification of acetaldehyde and carbon dioxide in the headspace of malignant and non-malignant lung cells in vitro by SIFT-MS. <i>Analyst, The</i> , 2009, 134, 2419.	3.5	60
80	A selected ion flow tube (SIFT), study of the reactions of H ₃ O ⁺ , NO ⁺ and O ₂ ⁺ ions with a series of alkenes; in support of SIFT-MS. <i>International Journal of Mass Spectrometry</i> , 2002, 218, 87-101.	1.5	59
81	Advances in On-line Absolute Trace Gas Analysis by SIFT-MS. <i>Current Analytical Chemistry</i> , 2013, 9, 525-539.	1.2	59
82	SIFT studies of the reactions of H ₃ O ⁺ , NO ⁺ and O ₂ ⁺ with several ethers. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1998, 172, 239-247.	1.8	58
83	On-line determination of the deuterium abundance in breath water vapour by flowing afterglow mass spectrometry with applications to measurements of total body water. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 25-32.	1.5	57
84	Selected Ion Flow Tube-MS Analysis of Headspace Vapor from Gastric Content for the Diagnosis of Gastro-Esophageal Cancer. <i>Analytical Chemistry</i> , 2012, 84, 9550-9557.	6.5	57
85	Quantification of hydrogen cyanide in humid air by selected ion flow tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 1869-1873.	1.5	56
86	Isotope exchange and collisional association in the reactions of CH ₃ ⁺ and its deuterated analogs with H ₂ , HD, and D ₂ . <i>Journal of Chemical Physics</i> , 1982, 77, 1261-1268.	3.0	54
87	Selected ion flow tube studies of the reactions of H ₃ O ⁺ , NO ⁺ , and O ₂ ⁺ with several aromatic and aliphatic monosubstituted halocarbons. <i>International Journal of Mass Spectrometry</i> , 1999, 189, 213-223.	1.5	53
88	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. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 867-872.	1.5	53
89	Dissociative attachment reactions of electrons with strong acid molecules. <i>Journal of Chemical Physics</i> , 1986, 84, 6728-6731.	3.0	52
90	A selected ion flow tube study of the reactions of NO ⁺ and O ₂ ⁺ ions with some organic molecules: The potential for trace gas analysis of air. <i>Journal of Chemical Physics</i> , 1996, 104, 1893-1899.	3.0	52

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91	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. <i>Journal of Chemical Physics</i> , 1989, 90, 6213-6219.	3.0	51
92	Selected ion flow tube studies of the reactions of H ₃ O ⁺ , NO ⁺ , and O ₂ ⁺ with some chloroalkanes and chloroalkenes. <i>International Journal of Mass Spectrometry</i> , 1999, 184, 175-181.	1.5	49
93	A selected ion-flow tube study of the reactions of O ⁺ , H ⁺ and HeH ⁺ with several molecular gases at 300 K. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1992, 117, 457-473.	1.8	47
94	Reactions of the HnS ⁺ ions (n = 0 to 3) with several molecular gases at thermal energies. <i>Journal of Chemical Physics</i> , 1981, 75, 3365-3370.	3.0	46
95	Analysis of petrol and diesel vapour and vehicle engine exhaust gases using selected ion flow tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 1124-1134.	1.5	46
96	The concentration distributions of some metabolites in the exhaled breath of young adults. <i>Journal of Breath Research</i> , 2007, 1, 026001.	3.0	46
97	Breath concentration of acetic acid vapour is elevated in patients with cystic fibrosis. <i>Journal of Breath Research</i> , 2016, 10, 021002.	3.0	46
98	Quantification of volatile metabolites in exhaled breath by selected ion flow tube mass spectrometry, SIFT-MS. <i>Clinical Mass Spectrometry</i> , 2020, 16, 18-24.	1.9	46
99	A brief review of interstellar ion chemistry. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1989, 85, 1613.	1.1	45
100	Effects of dietary nutrients on volatile breath metabolites. <i>Journal of Nutritional Science</i> , 2013, 2, e34.	1.9	45
101	Development of the flowing afterglow/Langmuir probe technique for studying the neutral products of dissociative recombination using spectroscopic techniques: OH production in the HCO ⁺ +e ⁻ reaction. <i>Journal of Chemical Physics</i> , 1989, 91, 963-973.	3.0	44
102	Gas phase reactions of some positive ions with atomic and molecular hydrogen at 300 K. <i>Journal of Chemical Physics</i> , 1997, 106, 3982-3987.	3.0	44
103	Quantification of hydrogen sulphide in humid air by selected ion flow tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2000, 14, 1136-1140.	1.5	44
104	Increase of acetone and ammonia in urine headspace and breath during ovulation quantified using selected ion flow tube mass spectrometry. <i>Physiological Measurement</i> , 2003, 24, 191-199.	2.1	44
105	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. <i>International Journal of Mass Spectrometry</i> , 2009, 285, 42-48.	1.5	44
106	Combining Near-Subject Absolute and Relative Measures of Longitudinal Hydration in Hemodialysis. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2009, 4, 1791-1798.	4.5	43
107	Pentane and other volatile organic compounds, including carboxylic acids, in the exhaled breath of patients with Crohn's disease and ulcerative colitis. <i>Journal of Breath Research</i> , 2018, 12, 016002.	3.0	43
108	Dissociative recombination of H ₃ ⁺ . Experiment and theory reconciled. <i>Chemical Physics Letters</i> , 1993, 211, 454-460.	2.6	42

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109	The Selected Ion Flow Tube Method for Workplace Analyses of Trace Gases in Air and Breath: Its Scope, Validation, and Applications. <i>Journal of Occupational and Environmental Hygiene</i> , 1998, 13, 817-823.	0.4	42
110	A selected ion flow tube study of the reactions of H ₃ O ⁺ , NO ⁺ and O ₂ ⁺ with some phenols, phenyl alcohols and cyclic carbonyl compounds in support of SIFT-MS and PTR-MS. <i>International Journal of Mass Spectrometry</i> , 2004, 239, 139-146.	1.5	42
111	Generation of volatile compounds on mouth exposure to urea and sucrose: implications for exhaled breath analysis. <i>Physiological Measurement</i> , 2006, 27, N7-N17.	2.1	42
112	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. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 1931-1938.	5.2	42
113	FALP studies of the dissociative recombination coefficients for O ₂ ⁺ and NO ⁺ within the electron temperature range 300–2000 K. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1993, 129, 183-191.	1.8	41
114	Ion-molecule calculation of the abundance ratio of CCD to CCH in dense interstellar clouds. <i>Astrophysical Journal</i> , 1987, 312, 351.	4.5	41
115	Influence of weakly bound adduct ions on breath trace gas analysis by selected ion flow tube mass spectrometry (SIFT-MS). <i>International Journal of Mass Spectrometry</i> , 2009, 280, 128-135.	1.5	40
116	Selected Ion Flow Tube-Mass Spectrometry for Absolute Quantification of Aroma Compounds in the Headspace of Dry Fermented Sausages. <i>Analytical Chemistry</i> , 2010, 82, 5819-5829.	6.5	40
117	Volatile compounds in health and disease. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2011, 14, 455-460.	2.5	40
118	Exhaled breath hydrogen cyanide as a marker of early <i>Pseudomonas aeruginosa</i> infection in children with cystic fibrosis. <i>ERJ Open Research</i> , 2015, 1, 00044-2015.	2.6	40
119	Rapid measurement of deuterium content of breath following oral ingestion to determine body water. <i>Physiological Measurement</i> , 2001, 22, 651-659.	2.1	39
120	Ammonia release from heated "street" cannabis leaf and its potential toxic effects on cannabis users. <i>Addiction</i> , 2008, 103, 1671-1677.	3.3	39
121	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. <i>Journal of Breath Research</i> , 2015, 9, 027104.	3.0	39
122	Quantification of volatile compounds in the headspace of aqueous liquids using selected ion flow tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 2148-2153.	1.5	38
123	SIFT-MS and FA-MS methods for ambient gas phase analysis: developments and applications in the UK. <i>Analyst</i> , 2015, 140, 2573-2591.	3.5	38
124	Unimolecular decomposition of a polyatomic ion in a variable-temperature selected-ion-flow-drift tube: experiment and theoretical interpretation. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1990, 96, 77-96.	1.8	37
125	Quantification by SIFT-MS of acetaldehyde released by lung cells in a 3D model. <i>Analyst</i> , 2013, 138, 91-95.	3.5	37
126	Acetone, butanone, pentanone, hexanone and heptanone in the headspace of aqueous solution and urine studied by selected ion flow tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 1097-1104.	1.5	36

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127	An investigation of suitable bag materials for the collection and storage of breath samples containing hydrogen cyanide. <i>Journal of Breath Research</i> , 2012, 6, 036004.	3.0	36
128	Selected ion flow tube, SIFT, studies of the reactions of H ₃ O ⁺ , NO ⁺ and O ₂ ⁺ with compounds released by <i>Pseudomonas</i> and related bacteria. <i>International Journal of Mass Spectrometry</i> , 2004, 233, 245-251.	1.5	35
129	Selected Ion Flow-Drift Tube Mass Spectrometry: Quantification of Volatile Compounds in Air and Breath. <i>Analytical Chemistry</i> , 2015, 87, 12151-12160.	6.5	35
130	A selected ion flow tube, SIFT, study of the reactions of H ₃ O ⁺ , NO ⁺ and O ₂ ⁺ ions with several N- and O-containing heterocyclic compounds in support of SIFT-MS. <i>International Journal of Mass Spectrometry</i> , 2004, 237, 167-174.	1.5	34
131	Time-resolved selected ion flow tube mass spectrometric quantification of the volatile compounds generated by <i>E. coli</i> JM109 cultured in two different media. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 2163-2172.	1.5	33
132	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. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 1917-1928.	1.5	33
133	FALP studies of electron attachment at elevated electron temperatures: the influence of attachment on electron energy distributions. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1993, 129, 193-203.	1.8	32
134	A selected ion flow tube, SIFT, study of the reactions of H ₃ O ⁺ , NO ⁺ and O ₂ ⁺ ions with a series of diols. <i>International Journal of Mass Spectrometry</i> , 2002, 218, 227-236.	1.5	32
135	Bronchoalveolar lavage examined by solid phase microextraction, gas chromatography-mass spectrometry and selected ion flow tube mass spectrometry. <i>Journal of Microbiological Methods</i> , 2006, 65, 76-86.	1.6	32
136	Pitfalls in the analysis of volatile breath biomarkers: suggested solutions and SIFT-MS quantification of single metabolites. <i>Journal of Breath Research</i> , 2015, 9, 022001.	3.0	32
137	Understanding Gas Phase Ion Chemistry Is the Key to Reliable Selected Ion Flow Tube-Mass Spectrometry Analyses. <i>Analytical Chemistry</i> , 2020, 92, 12750-12762.	6.5	32
138	Status of selected ion flow tube MS: accomplishments and challenges in breath analysis and other areas. <i>Bioanalysis</i> , 2016, 8, 1183-1201.	1.5	31
139	Comparative effects of temperature and kinetic energy change on the reaction of O ₂ ⁺ with CH ₄ and CD ₄ . <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1985, 67, 67-74.	1.8	30
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