

# Patrik Spanel

## List of Publications by Citations

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289  
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301  
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12,810  
ext. citations

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L-index

#	Paper	IF	Citations
289	Selected ion flow tube mass spectrometry (SIFT-MS) for on-line trace gas analysis. <i>Mass Spectrometry Reviews</i> , <b>2005</b> , 24, 661-700	11	596
288	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> , <b>2006</b> , 27, 321-37	2.9	274
287	Quantitative analysis of ammonia on the breath of patients in end-stage renal failure. <i>Kidney International</i> , <b>1997</b> , 52, 223-8	9.9	265
286	Progress in SIFT-MS: breath analysis and other applications. <i>Mass Spectrometry Reviews</i> , <b>2011</b> , 30, 236-67	11	250
285	Selected ion flow tube studies of the reactions of H <sub>3</sub> O <sup>+</sup> , NO <sup>+</sup> , and O <sub>2</sub> <sup>+</sup> with several aromatic and aliphatic hydrocarbons. <i>International Journal of Mass Spectrometry</i> , <b>1998</b> , 181, 1-10	1.9	182
284	SIFT studies of the reactions of H <sub>3</sub> O <sup>+</sup> , NO <sup>+</sup> and O <sub>2</sub> <sup>+</sup> with a series of aldehydes and ketones. <i>International Journal of Mass Spectrometry and Ion Processes</i> , <b>1997</b> , 165-166, 25-37		179
283	SIFT studies of the reactions of H <sub>3</sub> O <sup>+</sup> , NO <sup>+</sup> and O <sub>2</sub> <sup>+</sup> with a series of alcohols. <i>International Journal of Mass Spectrometry and Ion Processes</i> , <b>1997</b> , 167-168, 375-388		174
282	Selected ion flow tube: a technique for quantitative trace gas analysis of air and breath. <i>Medical and Biological Engineering and Computing</i> , <b>1996</b> , 34, 409-19	3.1	173
281	Time variation of ammonia, acetone, isoprene and ethanol in breath: a quantitative SIFT-MS study over 30 days. <i>Physiological Measurement</i> , <b>2003</b> , 24, 107-19	2.9	170
280	Breath analysis: the approach towards clinical applications. <i>Mini-Reviews in Medicinal Chemistry</i> , <b>2007</b> , 7, 115-29	3.2	152
279	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> , <b>1999</b> , 13, 1354-9	2.2	147
278	Ions in the terrestrial atmosphere and in interstellar clouds. <i>Mass Spectrometry Reviews</i> , <b>1995</b> , 14, 255-278		140
277	The novel selected-ion flow tube approach to trace gas analysis of air and breath. <i>Rapid Communications in Mass Spectrometry</i> , <b>1996</b> , 10, 1183-98	2.2	136
276	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> , <b>2006</b> , 249-250, 230-239	1.9	132
275	Trace gases in breath of healthy volunteers when fasting and after a protein-calorie meal: a preliminary study. <i>Journal of Applied Physiology</i> , <b>1999</b> , 87, 1584-8	3.7	130
274	Studies of Electron Attachment at Thermal Energies Using the Flowing Afterglow-Langmuir Probe Technique. <i>Advances in Atomic, Molecular and Optical Physics</i> , <b>1994</b> , 32, 307-343	1.7	130
273	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> , <b>2006</b> , 20, 61-8	2.2	129

272	Mass spectrometry for real-time quantitative breath analysis. <i>Journal of Breath Research</i> , <b>2014</b> , 8, 027103.1	1.1	123
271	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> , <b>1996</b> , 15, 231-271	7	118
270	Quantification of acetaldehyde released by lung cancer cells in vitro using selected ion flow tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2003</b> , 17, 845-50	2.2	115
269	Detection of volatile compounds emitted by <i>Pseudomonas aeruginosa</i> using selected ion flow tube mass spectrometry. <i>Pediatric Pulmonology</i> , <b>2005</b> , 39, 452-6	3.5	115
268	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> , <b>2006</b> , 27, 637-48	2.9	111
267	SIFT studies of the reactions of H <sub>3</sub> O <sup>+</sup> , NO <sup>+</sup> and O <sub>2</sub> <sup>+</sup> with a series of volatile carboxylic acids and esters. <i>International Journal of Mass Spectrometry and Ion Processes</i> , <b>1998</b> , 172, 137-147		110
266	Analysis of breath, exhaled via the mouth and nose, and the air in the oral cavity. <i>Journal of Breath Research</i> , <b>2008</b> , 2, 037013	3.1	110
265	The challenge of breath analysis for clinical diagnosis and therapeutic monitoring. <i>Analyst, The</i> , <b>2007</b> , 132, 390-6	5	109
264	Selected ion flow tube mass spectrometry: detection and real-time monitoring of flavours released by food products. <i>Rapid Communications in Mass Spectrometry</i> , <b>1999</b> , 13, 585-596	2.2	109
263	A longitudinal study of breath isoprene in healthy volunteers using selected ion flow tube mass spectrometry (SIFT-MS). <i>Physiological Measurement</i> , <b>2006</b> , 27, 13-22	2.9	106
262	Selected ion flow tube mass spectrometry analysis of exhaled breath for volatile organic compound profiling of esophago-gastric cancer. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 6121-8	7.8	103
261	Breath acetone concentration; biological variability and the influence of diet. <i>Physiological Measurement</i> , <b>2011</b> , 32, N23-31	2.9	103
260	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> , <b>2008</b> , 2, 026002	3.1	102
259	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> , <b>2008</b> , 22, 526-32	2.2	98
258	Reactions of Hydrated Hydronium Ions and Hydrated Hydroxide Ions with Some Hydrocarbons and Oxygen-Bearing Organic Molecules. <i>The Journal of Physical Chemistry</i> , <b>1995</b> , 99, 15551-15556		98
257	Mass Spectrometric Analysis of Exhaled Breath for the Identification of Volatile Organic Compound Biomarkers in Esophageal and Gastric Adenocarcinoma. <i>Annals of Surgery</i> , <b>2015</b> , 262, 981-90	7.8	96
256	Dissociative recombination of H <sub>3</sub> <sup>+</sup> and some other interstellar ions: a controversy resolved. <i>International Journal of Mass Spectrometry and Ion Processes</i> , <b>1993</b> , 129, 163-182		93
255	Volatile metabolites in the exhaled breath of healthy volunteers: their levels and distributions. <i>Journal of Breath Research</i> , <b>2007</b> , 1, 014004	3.1	91

254	Ambient analysis of trace compounds in gaseous media by SIFT-MS. <i>Analyst, The</i> , <b>2011</b> , 136, 2009-32	5	90
253	Plasma volume, albumin, and fluid status in peritoneal dialysis patients. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , <b>2010</b> , 5, 1463-70	6.9	90
252	Direct, rapid quantitative analyses of BVOCs using SIFT-MS and PTR-MS obviating sample collection. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2011</b> , 30, 945-959	14.6	82
251	Quantification of acetonitrile in exhaled breath and urinary headspace using selected ion flow tube mass spectrometry. <i>International Journal of Mass Spectrometry</i> , <b>2003</b> , 228, 655-665	1.9	81
250	Formation and decay of C <sub>80</sub> following free electron capture by C <sub>60</sub> . <i>Journal of Chemical Physics</i> , <b>1995</b> , 102, 2516-2521	3.9	80
249	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> , <b>2008</b> , 22, 783-9	2.2	78
248	Can volatile compounds in exhaled breath be used to monitor control in diabetes mellitus?. <i>Journal of Breath Research</i> , <b>2011</b> , 5, 022001	3.1	75
247	A selected ion flow tube study of the reactions of H <sub>3</sub> O <sup>+</sup> , NO <sup>+</sup> , and O <sub>2</sub> <sup>+</sup> with saturated and unsaturated aldehydes and subsequent hydration of the product ions. <i>International Journal of Mass Spectrometry</i> , <b>2002</b> , 213, 163-176	1.9	73
246	Electron attachment to C <sub>60</sub> at low energies. <i>Chemical Physics Letters</i> , <b>1993</b> , 213, 202-206	2.5	72
245	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> , <b>2010</b> , 4, 017101	3.1	71
244	Acetone, ammonia and hydrogen cyanide in exhaled breath of several volunteers aged 4-83 years. <i>Journal of Breath Research</i> , <b>2007</b> , 1, 011001	3.1	71
243	Quantification of breath isoprene using the selected ion flow tube mass spectrometric analytical method. <i>Rapid Communications in Mass Spectrometry</i> , <b>1999</b> , 13, 1733-8	2.2	71
242	Selected ion flow tube, SIFT, studies of the reactions of H <sub>3</sub> O <sup>+</sup> , NO <sup>+</sup> and O <sub>2</sub> <sup>+</sup> with eleven C <sub>10</sub> H <sub>16</sub> monoterpenes. <i>International Journal of Mass Spectrometry</i> , <b>2003</b> , 228, 117-126	1.9	70
241	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> , <b>2001</b> , 15, 563-9	2.2	70
240	Quantification of methyl thiocyanate in the headspace of <i>Pseudomonas aeruginosa</i> cultures and in the breath of cystic fibrosis patients by selected ion flow tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2011</b> , 25, 2459-67	2.2	67
239	Variability in the concentrations of volatile metabolites emitted by genotypically different strains of <i>Pseudomonas aeruginosa</i> . <i>Journal of Applied Microbiology</i> , <b>2012</b> , 113, 701-13	4.7	66
238	Quantification of ammonia in human breath by the selected ion flow tube analytical method using H <sub>3</sub> O <sup>+</sup> and O <sub>2</sub> <sup>+</sup> precursor ions. <i>Rapid Communications in Mass Spectrometry</i> , <b>1998</b> , 12, 763-66	2.2	66
237	Selected ion flow tube studies of the reactions of H <sub>3</sub> O <sup>+</sup> , NO <sup>+</sup> , and O <sub>2</sub> <sup>+</sup> with some organosulphur molecules. <i>International Journal of Mass Spectrometry</i> , <b>1998</b> , 176, 167-176	1.9	66

236	Selected ion flow tube studies of the reactions of H <sub>3</sub> O <sup>+</sup> , NO <sup>+</sup> , and O <sub>2</sub> <sup>+</sup> with several amines and some other nitrogen-containing molecules. <i>International Journal of Mass Spectrometry</i> , <b>1998</b> , 176, 203-219	1.9	66
235	On-line, real time monitoring of exhaled trace gases by SIFT-MS in the perioperative setting: a feasibility study. <i>Analyst, The</i> , <b>2011</b> , 136, 3233-7	5	65
234	Hydrogen cyanide, a volatile biomarker of Pseudomonas aeruginosa infection. <i>Journal of Breath Research</i> , <b>2013</b> , 7, 044001	3.1	64
233	A new online method to measure increased exhaled isoprene in end-stage renal failure. <i>Nephrology Dialysis Transplantation</i> , <b>2001</b> , 16, 836-9	4.3	64
232	On-line, simultaneous quantification of ethanol, some metabolites and water vapour in breath following the ingestion of alcohol. <i>Physiological Measurement</i> , <b>2002</b> , 23, 477-89	2.9	64
231	Selected ion flow tube mass spectrometry for on-line trace gas analysis in biology and medicine. <i>European Journal of Mass Spectrometry</i> , <b>2007</b> , 13, 77-82	1.1	61
230	Concurrent use of H <sub>3</sub> O <sup>+</sup> , NO <sup>+</sup> , and O <sub>2</sub> <sup>+</sup> 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> , <b>2001</b> , 209, 81-97	1.9	59
229	The varying influences of gas and electron temperatures on the rates of electron attachment to some selected molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>1995</b> , 28, 2941-2957	7.3	59
228	A quantitative study of the influence of inhaled compounds on their concentrations in exhaled breath. <i>Journal of Breath Research</i> , <b>2013</b> , 7, 017106	3.1	58
227	Selected ion flow tube mass spectrometry analysis of volatile metabolites in urine headspace for the profiling of gastro-esophageal cancer. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 3409-16	7.8	56
226	Ionic diffusion and mass discrimination effects in the new generation of short flow tube SIFT-MS instruments. <i>International Journal of Mass Spectrometry</i> , <b>2009</b> , 281, 15-23	1.9	56
225	Concentrations of some metabolites in the breath of healthy children aged 7-18 years measured using selected ion flow tube mass spectrometry (SIFT-MS). <i>Journal of Breath Research</i> , <b>2009</b> , 3, 036001	3.1	55
224	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> , <b>2009</b> , 134, 2419-25	5	55
223	A study of sulfur-containing compounds in mouth- and nose-exhaled breath and in the oral cavity using selected ion flow tube mass spectrometry. <i>Journal of Breath Research</i> , <b>2008</b> , 2, 046004	3.1	55
222	A selected ion flow tube (SIFT), study of the reactions of H <sub>3</sub> O <sup>+</sup> , NO <sup>+</sup> and O <sub>2</sub> <sup>+</sup> ions with a series of alkenes; in support of SIFT-MS. <i>International Journal of Mass Spectrometry</i> , <b>2002</b> , 218, 87-101	1.9	55
221	Reactions of H <sub>3</sub> O <sup>+</sup> and OH <sup>+</sup> ions with some organic molecules; applications to trace gas analysis in air. <i>International Journal of Mass Spectrometry and Ion Processes</i> , <b>1995</b> , 145, 177-186		55
220	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> , <b>2013</b> , 27, 1983-92	2.2	54
219	Quantification of trace levels of the potential cancer biomarkers formaldehyde, acetaldehyde and propanol in breath by SIFT-MS. <i>Journal of Breath Research</i> , <b>2008</b> , 2, 046003	3.1	53

218	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> , <b>2001</b> , 12, 863-72	3.5	53
217	SIFT studies of the reactions of H <sub>3</sub> O <sup>+</sup> , NO <sup>+</sup> and O <sub>2</sub> <sup>+</sup> with several ethers. <i>International Journal of Mass Spectrometry and Ion Processes</i> , <b>1998</b> , 172, 239-247		52
216	Analysis of ketones by selected ion flow tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2003</b> , 17, 2655-60	2.2	52
215	Selected ion flow tube mass spectrometry of urine headspace. <i>Rapid Communications in Mass Spectrometry</i> , <b>1999</b> , 13, 724-9	2.2	52
214	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> , <b>2013</b> , 7, 026010	3.1	51
213	Breath analysis of ammonia, volatile organic compounds and deuterated water vapor in chronic kidney disease and during dialysis. <i>Bioanalysis</i> , <b>2014</b> , 6, 843-57	2.1	50
212	Advances in On-line Absolute Trace Gas Analysis by SIFT-MS. <i>Current Analytical Chemistry</i> , <b>2013</b> , 9, 525-539		50
211	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> , <b>2001</b> , 15, 867-72	2.2	49
210	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> , <b>2001</b> , 15, 25-32	2.2	49
209	Selected ion flow tube-MS analysis of headspace vapor from gastric content for the diagnosis of gastro-esophageal cancer. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 9550-7	7.8	48
208	Variation in hydrogen cyanide production between different strains of <i>Pseudomonas aeruginosa</i> . <i>European Respiratory Journal</i> , <b>2011</b> , 38, 409-14	13.6	46
207	Quantification of hydrogen cyanide in humid air by selected ion flow tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2004</b> , 18, 1869-73	2.2	46
206	Selected ion flow tube studies of the reactions of H <sub>3</sub> O <sup>+</sup> , NO <sup>+</sup> , and O <sub>2</sub> <sup>+</sup> with several aromatic and aliphatic monosubstituted halocarbons. <i>International Journal of Mass Spectrometry</i> , <b>1999</b> , 189, 213-223	1.9	44
205	A selected ion-flow tube study of the reactions of O <sup>+</sup> , H <sup>+</sup> and HeH <sup>+</sup> with several molecular gases at 300 K. <i>International Journal of Mass Spectrometry and Ion Processes</i> , <b>1992</b> , 117, 457-473		44
204	A selected ion flow tube study of the reactions of NO <sup>+</sup> and O <sub>2</sub> <sup>+</sup> ions with some organic molecules: The potential for trace gas analysis of air. <i>Journal of Chemical Physics</i> , <b>1996</b> , 104, 1893-1899	3.9	43
203	Laser ablation of FOX-7: proposed mechanism of decomposition. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 1069-77	7.8	42
202	An on-line Langmuir probe technique for the study of afterglow plasmas. <i>International Journal of Mass Spectrometry and Ion Processes</i> , <b>1995</b> , 149-150, 299-310		42
201	Quantification of hydrogen sulphide in humid air by selected ion flow tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2000</b> , 14, 1136-40	2.2	41

200	Dissociative recombination of H <sub>3</sub> . Experiment and theory reconciled. <i>Chemical Physics Letters</i> , <b>1993</b> , 211, 454-460	2.5	41
199	Quantification of methane in humid air and exhaled breath using selected ion flow tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2010</b> , 24, 1296-304	2.2	40
198	A study of thermal decomposition and combustion products of disposable polyethylene terephthalate (PET) plastic using high resolution fourier transform infrared spectroscopy, selected ion flow tube mass spectrometry and gas chromatography mass spectrometry. <i>Molecular Physics</i> , <b>2008</b> , 106, 1205-1214	1.7	40
197	The concentration distributions of some metabolites in the exhaled breath of young adults. <i>Journal of Breath Research</i> , <b>2007</b> , 1, 026001	3.1	40
196	Analysis of volatile emissions from porcine faeces and urine using selected ion flow tube mass spectrometry. <i>Bioresource Technology</i> , <b>2000</b> , 75, 27-33	11	40
195	FALP studies of the dissociative recombination coefficients for O <sub>2</sub> <sup>+</sup> and NO <sup>+</sup> within the electron temperature range 300-2000 K. <i>International Journal of Mass Spectrometry and Ion Processes</i> , <b>1993</b> , 129, 183-191		40
194	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> , <b>2009</b> , 285, 42-48	1.9	39
193	Increase of acetone and ammonia in urine headspace and breath during ovulation quantified using selected ion flow tube mass spectrometry. <i>Physiological Measurement</i> , <b>2003</b> , 24, 191-9	2.9	39
192	Selected ion flow tube studies of the reactions of H <sub>3</sub> O <sup>+</sup> , NO <sup>+</sup> , and O <sub>2</sub> <sup>+</sup> with some chloroalkanes and chloroalkenes. <i>International Journal of Mass Spectrometry</i> , <b>1999</b> , 184, 175-181	1.9	39
191	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> , <b>2009</b> , 280, 128-135	1.9	38
190	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> , <b>2002</b> , 16, 1124-34	2.2	38
189	Selected ion flow tube-mass spectrometry for absolute quantification of aroma compounds in the headspace of dry fermented sausages. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 5819-29	7.8	37
188	A study of the composition of the products of laser-induced breakdown of hexogen, octogen, pentrite and trinitrotoluene using selected ion flow tube mass spectrometry and UV-Vis spectrometry. <i>Analyst, The</i> , <b>2010</b> , 135, 1106-14	5	37
187	Gas phase reactions of some positive ions with atomic and molecular hydrogen at 300 K. <i>Journal of Chemical Physics</i> , <b>1997</b> , 106, 3982-3987	3.9	37
186	Generation of volatile compounds on mouth exposure to urea and sucrose: implications for exhaled breath analysis. <i>Physiological Measurement</i> , <b>2006</b> , 27, N7-17	2.9	37
185	A selected ion flow tube study of the reactions of H <sub>3</sub> O <sup>+</sup> , NO <sup>+</sup> and O <sub>2</sub> <sup>+</sup> with some phenols, phenyl alcohols and cyclic carbonyl compounds in support of SIFT-MS and PTR-MS. <i>International Journal of Mass Spectrometry</i> , <b>2004</b> , 239, 139-146	1.9	37
184	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> , <b>1998</b> , 13, 817-823		36
183	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> , <b>2011</b> , 59, 1931-8	5.7	35

182	Combining near-subject absolute and relative measures of longitudinal hydration in hemodialysis. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , <b>2009</b> , 4, 1791-8	6.9	35
181	Quantification of volatile compounds in the headspace of aqueous liquids using selected ion flow tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2002</b> , 16, 2148-53	2.2	35
180	Breath concentration of acetic acid vapour is elevated in patients with cystic fibrosis. <i>Journal of Breath Research</i> , <b>2016</b> , 10, 021002	3.1	35
179	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> , <b>2009</b> , 23, 1097-104	2.2	34
178	Quantification by SIFT-MS of acetaldehyde released by lung cells in a 3D model. <i>Analyst, The</i> , <b>2013</b> , 138, 91-5	5	33
177	Effects of dietary nutrients on volatile breath metabolites. <i>Journal of Nutritional Science</i> , <b>2013</b> , 2, e34	2.7	33
176	Volatile compounds in health and disease. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2011</b> , 14, 455-60	3.8	33
175	Selected ion flow tube, SIFT, studies of the reactions of H <sub>3</sub> O <sup>+</sup> , NO <sup>+</sup> and O <sub>2</sub> <sup>+</sup> with compounds released by Pseudomonas and related bacteria. <i>International Journal of Mass Spectrometry</i> , <b>2004</b> , 233, 245-251	1.9	33
174	Rapid measurement of deuterium content of breath following oral ingestion to determine body water. <i>Physiological Measurement</i> , <b>2001</b> , 22, 651-9	2.9	33
173	Formation of SF <sub>5</sub> <sup>-</sup> electron attachment to SF <sub>6</sub> ; swarm and beam results reconciled. <i>Chemical Physics Letters</i> , <b>1995</b> , 240, 481-488	2.5	33
172	Quantitative analysis of volatile metabolites released in vitro by bacteria of the genus Stenotrophomonas for identification of breath biomarkers of respiratory infection in cystic fibrosis. <i>Journal of Breath Research</i> , <b>2015</b> , 9, 027104	3.1	32
171	SIFT-MS and FA-MS methods for ambient gas phase analysis: developments and applications in the UK. <i>Analyst, The</i> , <b>2015</b> , 140, 2573-91	5	32
170	Selected Ion Flow-Drift Tube Mass Spectrometry: Quantification of Volatile Compounds in Air and Breath. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 12151-60	7.8	32
169	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> , <b>1993</b> , 129, 193-203		32
168	An investigation of suitable bag materials for the collection and storage of breath samples containing hydrogen cyanide. <i>Journal of Breath Research</i> , <b>2012</b> , 6, 036004	3.1	31
167	Ammonia release from heated street cannabis leaf and its potential toxic effects on cannabis users. <i>Addiction</i> , <b>2008</b> , 103, 1671-7	4.6	31
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49	Addition of fast gas chromatography to selected ion flow tube mass spectrometry for analysis of individual monoterpenes in mixtures. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 4965-4982	4	5
48	DETECTION OF H. PYLORI INFECTION BY BREATH AMMONIA FOLLOWING UREA INGESTION <b>2005</b> ,		5
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45	Reagent and analyte ion hydrates in secondary electrospray ionization mass spectrometry (SESI-MS), their equilibrium distributions and dehydration in an ion transfer capillary: Modelling and experiments. <i>Rapid Communications in Mass Spectrometry</i> , <b>2021</b> , 35, e9047	2.2	5
44	Counting cell number in situ by quantification of dimethyl sulphide in culture headspace. <i>Analyst, The</i> , <b>2014</b> , 139, 4903-7	5	4
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41	APPLICATIONS OF SELECTED ION FLOW TUBE MASS SPECTROMETRY, SIFT-MS, IN ADDICTION RESEARCH <b>2005</b> ,		4
40	Selected Ion Flow Tube Mass Spectrometry (SIFT-MS) and Flowing Afterglow Mass Spectrometry (FA-MS) for the Determination of the Deuterium Abundance in Water Vapour <b>2004</b> , 88-102		4
39	Time-integrated thermal desorption for quantitative SIFT-MS analyses of atmospheric monoterpenes. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 2997-3007	4.4	3

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36	The influences of gas and electron temperatures on electron attachment in gas electrical discharges. <i>European Physical Journal D</i> , <b>1998</b> , 48, 1119-1134		3
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34	THE COMBINED USE OF SIFT-MS AND FA-MS TO INVESTIGATE FIRST-PASS METABOLISM OF ETHANOL <b>2005</b> ,		3
33	Editorial (Hot-Topic: Selected Ion Flow Tube Mass Spectrometry, SIFT-MS). <i>Current Analytical Chemistry</i> , <b>2013</b> , 9, 523-524	1.7	3
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16	Quantification of hydrogen sulphide in humid air by selected ion flow tube mass spectrometry <b>2000</b> , 14, 1136		2
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5	Relative influence of helium and nitrogen carrier gases on analyte ion branching ratios in SIFT-MS. <i>International Journal of Mass Spectrometry</i> , <b>2022</b> , 476, 116835	1.9	0
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