

Kseniya Dryahina

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9215049/publications.pdf>

Version: 2024-02-01

51
papers

1,827
citations

236833

25
h-index

265120

42
g-index

51
all docs

51
docs citations

51
times ranked

1620
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	0.7	148
2	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.	1.5	133
3	Breath acetone concentration; biological variability and the influence of diet. <i>Physiological Measurement</i> , 2011, 32, N23-N31.	1.2	119
4	Acetone, ammonia and hydrogen cyanide in exhaled breath of several volunteers aged 4â€“83 years. <i>Journal of Breath Research</i> , 2007, 1, 011001.	1.5	83
5	Variability in the concentrations of volatile metabolites emitted by genotypically different strains of <i>Pseudomonas aeruginosa</i> . <i>Journal of Applied Microbiology</i> , 2012, 113, 701-713.	1.4	81
6	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> , 2011, 25, 2459-2467.	0.7	80
7	A quantitative study of the influence of inhaled compounds on their concentrations in exhaled breath. <i>Journal of Breath Research</i> , 2013, 7, 017106.	1.5	68
8	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.	0.7	62
9	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> , 2008, 106, 1205-1214.	0.8	50
10	Laser Ablation of FOX-7: Proposed Mechanism of Decomposition. <i>Analytical Chemistry</i> , 2011, 83, 1069-1077.	3.2	50
11	Quantification of methane in humid air and exhaled breath using selected ion flow tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 1296-1304.	0.7	49
12	The concentration distributions of some metabolites in the exhaled breath of young adults. <i>Journal of Breath Research</i> , 2007, 1, 026001.	1.5	46
13	Breath concentration of acetic acid vapour is elevated in patients with cystic fibrosis. <i>Journal of Breath Research</i> , 2016, 10, 021002.	1.5	46
14	Pentane and other volatile organic compounds, including carboxylic acids, in the exhaled breath of patients with Crohnâ€™s disease and ulcerative colitis. <i>Journal of Breath Research</i> , 2018, 12, 016002.	1.5	43
15	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.	2.4	42
16	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</i> , 2010, 135, 1106.	1.7	41
17	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.	3.2	40
18	Exhaled breath concentrations of acetic acid vapour in gastro-esophageal reflux disease. <i>Journal of Breath Research</i> , 2014, 8, 037109.	1.5	40

#	ARTICLE	IF	CITATIONS
19	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
20	Rapid detection of lipid oxidation in beef muscle packed under modified atmosphere by measuring volatile organic compounds using SIFT-MS. Food Chemistry, 2012, 135, 1801-1808.	4.2	38
21	Selected ion flow tube mass spectrometry of exhaled breath condensate headspace. Rapid Communications in Mass Spectrometry, 2008, 22, 2844-2850.	0.7	35
22	HNC/HCN Ratio in Acetonitrile, Formamide, and BrCN Discharge. Journal of Physical Chemistry A, 2011, 115, 1885-1899.	1.1	35
23	Selected ion flow tube (SIFT) studies of the reactions of H ₃ O ⁺ , NO ⁺ and O ₂ ⁺ with six volatile phytogetic esters. International Journal of Mass Spectrometry, 2011, 300, 31-38.	0.7	34
24	Differentiation of pulmonary bacterial pathogens in cystic fibrosis by volatile metabolites emitted by their <i>in vitro</i> cultures: <i>Pseudomonas aeruginosa</i> , <i>Staphylococcus aureus</i> , <i>Stenotrophomonas maltophilia</i> and the <i>Burkholderia cepacia</i> complex. Journal of Breath Research, 2016, 10, 037102.	1.5	33
25	A convenient method for calculation of ionic diffusion coefficients for accurate selected ion flow tube mass spectrometry, SIFT-MS. International Journal of Mass Spectrometry, 2005, 244, 148-154.	0.7	28
26	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
27	Increase of methanol in exhaled breath quantified by SIFT-MS following aspartame ingestion. Journal of Breath Research, 2015, 9, 047104.	1.5	24
28	Do linear logistic model analyses of volatile biomarkers in exhaled breath of cystic fibrosis patients reliably indicate <i>Pseudomonas aeruginosa</i> infection?. Journal of Breath Research, 2016, 10, 036013.	1.5	22
29	A selected ion flow tube, SIFT, study of the ion chemistry of H ₃ O ⁺ , NO ⁺ and O ₂ ⁺ ions with several nitroalkanes in the presence of water vapour. International Journal of Mass Spectrometry, 2004, 239, 57-65.	0.7	21
30	Combined use of gas chromatography and selected ion flow tube mass spectrometry for absolute trace gas quantification. Rapid Communications in Mass Spectrometry, 2006, 20, 563-567.	0.7	21
31	Real Time Detection of Aroma Compounds in Meat and Meat Products by SIFT-MS and Comparison to Conventional Techniques (SPME-GC-MS). Current Analytical Chemistry, 2013, 9, 622-630.	0.6	21
32	SIFT-MS Analysis of Nose-Exhaled Breath; Mouth Contamination and the Influence of Exercise. Current Analytical Chemistry, 2013, 9, 565-575.	0.6	21
33	Microwave plasma ion sources for selected ion flow tube mass spectrometry: Optimizing their performance and detection limits for trace gas analysis. International Journal of Mass Spectrometry, 2007, 267, 117-124.	0.7	20
34	Quantification of methylamine in the headspace of ethanol of agricultural origin by selected ion flow tube mass spectrometry. International Journal of Mass Spectrometry, 2009, 286, 1-6.	0.7	20
35	Direct detection and quantification of malondialdehyde vapour in humid air using selected ion flow tube mass spectrometry supported by gas chromatography/mass spectrometry. Rapid Communications in Mass Spectrometry, 2015, 29, 1069-1079.	0.7	17
36	SIFT-MS quantification of several breath biomarkers of inflammatory bowel disease, IBD: A detailed study of the ion chemistry. International Journal of Mass Spectrometry, 2016, 396, 35-41.	0.7	17

#	ARTICLE	IF	CITATIONS
37	H ₃ O ⁺ , NO ⁺ and O ₂ ⁺ reactions with saturated and unsaturated monoketones and diones; focus on hydration of product ions. <i>International Journal of Mass Spectrometry</i> , 2019, 435, 173-180.	0.7	17
38	Comparative SIFT-MS, GC-MS and FTIR analysis of methane fuel produced in biogas stations and in artificial photosynthesis over acidic anatase TiO ₂ and montmorillonite. <i>Journal of Molecular Spectroscopy</i> , 2018, 348, 152-160.	0.4	14
39	Sensitivity of secondary electrospray ionization mass spectrometry to a range of volatile organic compounds: Ligand switching ion chemistry and the influence of Z-spray, guiding electric fields. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e9187.	0.7	13
40	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> , 2021, 35, e9047.	0.7	12
41	Spectroscopic investigations of high-energy-density plasma transformations in a simulated early reducing atmosphere containing methane, nitrogen and water. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27317-27325.	1.3	11
42	Selected ion flow tube mass spectrometry analyses of laser decomposition products of a range of explosives and ballistic propellants. <i>Analytical Methods</i> , 2016, 8, 1145-1150.	1.3	11
43	Volatile compounds released by Nalophan; implications for selected ion flow tube mass spectrometry and other chemical ionisation mass spectrometry analytical methods. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8602.	0.7	11
44	Selected Ion Flow Tube Study of Ion-Molecule Reactions of N ⁺ (³ P) and Kr ⁺ with C ₃ Hydrocarbons Propane, Propene, and Propyne. <i>Journal of Physical Chemistry A</i> , 2011, 115, 7310-7315.	1.1	10
45	Acetic acid is elevated in the exhaled breath of cystic fibrosis patients. <i>Journal of Cystic Fibrosis</i> , 2017, 16, e17-e18.	0.3	10
46	Characterization of spoilage-related volatile organic compounds in packaged leaf salads. <i>Flavour and Fragrance Journal</i> , 2020, 35, 24-33.	1.2	8
47	Kinetics of reactions of NH ₄ ⁺ with some biogenic organic molecules and monoterpenes in helium and nitrogen carrier gases: A potential reagent ion for selected ion flow tube mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2022, 36, .	0.7	8
48	Parallel secondary electrospray ionisation mass spectrometry and selected ion flow tube mass spectrometry quantification of trace amounts of volatile ketones. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e8981.	0.7	4
49	A detailed study of the ion chemistry of alkenes focusing on heptenes aimed at their SIFT-MS quantification. <i>International Journal of Mass Spectrometry</i> , 2018, 425, 16-21.	0.7	3
50	Terahertz (THz), Mid Infrared (MIR) and Near Infrared (NIR) Technologies for Protection of Critical Infrastructures Against Explosives and CBRN. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2021, , .	0.2	2
51	P224 Exhaled pentane may identify disease activity in patients with inflammatory bowel diseases. <i>Journal of Crohn's and Colitis</i> , 2014, 8, S156.	0.6	0