

Proton-Transfer-Reaction Mass Spectrometry: Applicat

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Diurnal Variability and Emission Pattern of Decamethylcyclopentasiloxane (D ₅) from the Application of Personal Care Products in Two North American Cities. <i>Environmental Science & Technology</i> , 2018, 52, 5610-5618.	4.6	72
3	Large unexplained suite of chemically reactive compounds present in ambient air due to biomass fires. <i>Scientific Reports</i> , 2018, 8, 626.	1.6	49
4	Non-methane organic gas emissions from biomass burning: identification, quantification, and emission factors from PTR-ToF during the FIREX 2016 laboratory experiment. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3299-3319.	1.9	233
5	Mass Spectrometry Analysis in Atmospheric Chemistry. <i>Analytical Chemistry</i> , 2018, 90, 166-189.	3.2	87
9	Long-term measurements of volatile organic compounds highlight the importance of sesquiterpenes for the atmospheric chemistry of a boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13839-13863.	1.9	79
10	High- and low-temperature pyrolysis profiles describe volatile organic compound emissions from western US wildfire fuels. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 9263-9281.	1.9	102
11	Electron Attachment Reaction Ionization of Gas-Phase Methylglyoxal. <i>Analytical Chemistry</i> , 2018, 90, 13467-13474.	3.2	3
12	The reaction of hydroxyl and methylperoxy radicals is not a major source of atmospheric methanol. <i>Nature Communications</i> , 2018, 9, 4343.	5.8	32
13	Evaluation of a New Reagent-Ion Source and Focusing Ion Molecule Reactor for Use in Proton-Transfer-Reaction Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 12011-12018.	3.2	168
14	Bidirectional Ecosystem Atmosphere Fluxes of Volatile Organic Compounds Across the Mass Spectrum: How Many Matter?. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 764-777.	1.2	39
15	Real-time quantification of emissions of volatile organic compounds from land spreading of pig slurry measured by PTR-MS and wind tunnels. <i>Science of the Total Environment</i> , 2018, 639, 1079-1087.	3.9	37
16	Pollution profiles of volatile organic compounds from different urban functional areas in Guangzhou China based on GC/MS and PTR-TOF-MS: Atmospheric environmental implications. <i>Atmospheric Environment</i> , 2019, 214, 116843.	1.9	52
17	Volatile organic compound measurements point to fog-induced biomass burning feedback to air quality in the megacity of Delhi. <i>Science of the Total Environment</i> , 2019, 689, 295-304.	3.9	27
18	Time-Resolved Intermediate-Volatility and Semivolatile Organic Compound Emissions from Household Coal Combustion in Northern China. <i>Environmental Science & Technology</i> , 2019, 53, 9269-9278.	4.6	44
19	Chemical characterization of nanoparticles and volatiles present in mainstream hookah smoke. <i>Aerosol Science and Technology</i> , 2019, 53, 1023-1039.	1.5	8
20	Characteristics of wintertime VOCs in suburban and urban Beijing: concentrations, emission ratios, and festival effects. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8021-8036.	1.9	55
21	An IBBCEAS system for atmospheric measurements of glyoxal and methylglyoxal in the presence of high NO ₂ concentrations. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 4439-4453.	1.2	25
22	Sensitive Detection of Gas-Phase Glyoxal by Electron Attachment Reaction Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 12688-12695.	3.2	5

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23	Gaseous carbonyls in China's atmosphere: Tempo-spatial distributions, sources, photochemical formation, and impact on air quality. <i>Atmospheric Environment</i> , 2019, 214, 116863.	1.9	41
24	Bulk Organic Aerosol Analysis by Proton-Transfer-Reaction Mass Spectrometry: An Improved Methodology for the Determination of Total Organic Mass, O:C and H:C Elemental Ratios, and the Average Molecular Formula. <i>Analytical Chemistry</i> , 2019, 91, 12619-12624.	3.2	11
25	Indoor Illumination of Terpenes and Bleach Emissions Leads to Particle Formation and Growth. <i>Environmental Science & Technology</i> , 2019, 53, 11792-11800.	4.6	47
26	The chemical reactions in electrosprays of water do not always correspond to those at the pristine air-water interface. <i>Chemical Science</i> , 2019, 10, 2566-2577.	3.7	43
27	Effects of elevated oxygen levels on VOC analysis by means of PTR-ToF-MS. <i>Journal of Breath Research</i> , 2019, 13, 046004.	1.5	9
28	Significant source of secondary aerosol: formation from gasoline evaporative emissions in the presence of SO ₂ and NH ₃ . <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8063-8081.	1.9	52
29	Evaluating the performance of five different chemical ionization techniques for detecting gaseous oxygenated organic species. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 2403-2421.	1.2	119
30	Heterogeneous photochemistry of dicarboxylic acids on mineral dust. <i>Atmospheric Environment</i> , 2019, 212, 262-271.	1.9	16
31	Time-Resolved Measurements of Indoor Chemical Emissions, Deposition, and Reactions in a University Art Museum. <i>Environmental Science & Technology</i> , 2019, 53, 4794-4802.	4.6	89
32	A Library of Proton-Transfer Reactions of H ₃ O ⁺ Ions Used for Trace Gas Detection. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1330-1335.	1.2	68
33	Characterizing sources and emissions of volatile organic compounds in a northern California residence using space- and time-resolved measurements. <i>Indoor Air</i> , 2019, 29, 630-644.	2.0	70
34	Electrostatic Switching and Selection of H ₃ O ⁺ , NO ⁺ , and O ₂ ⁺ Reagent Ions for Selected Ion Flow-Drift Tube Mass Spectrometric Analyses of Air and Breath. <i>Analytical Chemistry</i> , 2019, 91, 5380-5388.	3.2	17
35	Molecular Characterization of Atmospheric Organic Aerosol by Mass Spectrometry. <i>Annual Review of Analytical Chemistry</i> , 2019, 12, 247-274.	2.8	30
36	Highly efficient visible-light-driven photocatalytic degradation of VOCs by CO ₂ -assisted synthesized mesoporous carbon confined mixed-phase TiO ₂ nanocomposites derived from MOFs. <i>Applied Catalysis B: Environmental</i> , 2019, 250, 337-346.	10.8	113
37	Physicochemical uptake and release of volatile organic compounds by soil in coated-wall flow tube experiments with ambient air. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2209-2232.	1.9	12
38	Using collision-induced dissociation to constrain sensitivity of ammonia chemical ionization mass spectrometry (NH ₄ ⁺ T ₁ EQ ₁ 1 0.784314 rg BT 1861-1870.	1.2	33
39	Volatile organic compounds in a typical petrochemical industrialized valley city of northwest China based on high-resolution PTR-MS measurements: Characterization, sources and chemical effects. <i>Science of the Total Environment</i> , 2019, 671, 883-896.	3.9	64
40	V-shaped ion funnel proton transfer reaction mass spectrometry. <i>Instrumentation Science and Technology</i> , 2019, 47, 410-422.	0.9	0

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41	Exploration of sources of OVOCs in various atmospheres in southern China. <i>Environmental Pollution</i> , 2019, 249, 831-842.	3.7	36
42	OH chemistry of non-methane organic gases (NMOGs) emitted from laboratory and ambient biomass burning smoke: evaluating the influence of furans and oxygenated aromatics on ozone and secondary NMOG formation. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 14875-14899.	1.9	92
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45	Validity and limitations of simple reaction kinetics to calculate concentrations of organic compounds from ion counts in PTR-MS. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 6193-6208.	1.2	53
46	Airborne measurements of particulate organic matter by proton-transfer-reaction mass spectrometry (PTR-MS): a pilot study. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5947-5958.	1.2	9
47	Real-time monitoring and quantification of organic by-products and mechanism study of acetone decomposition in a dielectric barrier discharge reactor. <i>Environmental Science and Pollution Research</i> , 2019, 26, 6773-6781.	2.7	14
48	Ammonia-Assisted Proton Transfer Reaction Mass Spectrometry for Detecting Triacetone Triperoxide (TATP) Explosive. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 501-508.	1.2	16
49	Atmospheric Chemistry Analysis: A Review. <i>Analytical Chemistry</i> , 2020, 92, 455-472.	3.2	19
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58	Proton transfer at subkelvin temperatures. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 28165-28172.	1.3	14

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60	Biomass-burning-derived particles from a wide variety of fuels – Part 2: Effects of photochemical aging on particle optical and chemical properties. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8511-8532.	1.9	41
61	High Concentrations of Atmospheric Isocyanic Acid (HNCO) Produced from Secondary Sources in China. <i>Environmental Science & Technology</i> , 2020, 54, 11818-11826.	4.6	20
62	Effects of modular ion-funnel technology onto analysis of breath VOCs by means of real-time mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 7131-7140.	1.9	5
63	Detection of gaseous dimethylamine using vocus proton-transfer-reaction time-of-flight mass spectrometry. <i>Atmospheric Environment</i> , 2020, 243, 117875.	1.9	18
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65	Vertical profiles of biogenic volatile organic compounds as observed online at a tower in Beijing. <i>Journal of Environmental Sciences</i> , 2020, 95, 33-42.	3.2	19
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67	Terpenes and their oxidation products in the French Landes forest: insights from Vocus PTR-TOF measurements. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 1941-1959.	1.9	46
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76	Applications of Near Infrared Photoacoustic Spectroscopy for Analysis of Human Respiration: A Review. <i>Molecules</i> , 2020, 25, 1728.	1.7	43

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79	Modern mass spectrometry in atmospheric sciences: Measurement of volatile organic compounds in the troposphere using proton transfer reaction mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4619.	0.7	10
80	Real-time analysis of intermediate products from non-thermal plasma degradation of ethyl acetate in air using PTR-MS: Performance evaluation and mechanism study. <i>Chemosphere</i> , 2021, 264, 128430.	4.2	12
81	Elucidating the importance of semi-volatile organic compounds to secondary organic aerosol formation at a regional site during the EXPLORE-YRD campaign. <i>Atmospheric Environment</i> , 2021, 246, 118043.	1.9	17
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84	Emissions of Reactive Nitrogen From Western U.S. Wildfires During Summer 2018. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD032657.	1.2	41
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113	Measurement report: Molecular composition and volatility of gaseous organic compounds in a boreal forest – from volatile organic compounds to highly oxygenated organic molecules. Atmospheric Chemistry and Physics, 2021, 21, 8961-8977.	1.9	12
114	Combining of TD-GC-MS and home developed electronic nose for road traffic air monitoring. , 2021, , .		1

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115	Emissions of Trace Organic Gases From Western U.S. Wildfires Based on WEâ€CAN Aircraft Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033838.	1.2	54
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121	Effect of relative humidity on SOA formation from aromatic hydrocarbons: Implications from the evolution of gas- and particle-phase species. <i>Science of the Total Environment</i> , 2021, 773, 145015.	3.9	34
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123	Determination of trace compounds and artifacts in nitrogen background measurements by proton transfer reaction timeâ€ofâ€flight mass spectrometry under dry and humid conditions. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4777.	0.7	2
124	Reaction Rate Coefficient of OH Radicals with <i>n</i> -Butanol as a Function of Temperature. <i>ACS Omega</i> , 2021, 6, 18123-18134.	1.6	3
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134	Measurements of higher alkanes using NO_x - H_2O - H_2O_2 chemical ionization in PTR-ToF-MS: important contributions of higher alkanes to secondary organic aerosols in China. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14123-14138.	1.9	24
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140	Measurement of Diacetyl and Related Compounds in Coffee Roasteries and Breweries. <i>Annals of Work Exposures and Health</i> , 2022, 66, 618-631.	0.6	3
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