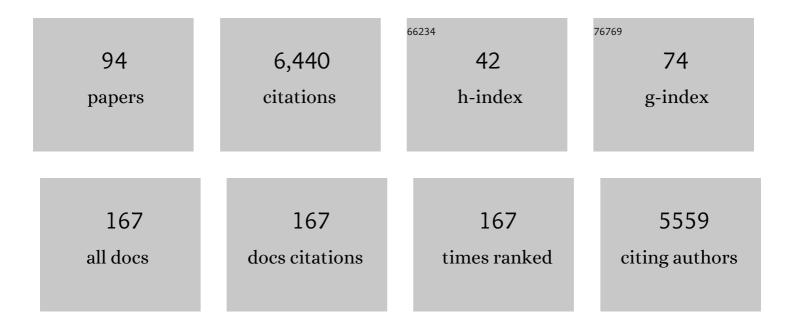
## Patrick R Veres

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The NASA Atmospheric Tomography (ATom) Mission: Imaging the Chemistry of the Global Atmosphere. Bulletin of the American Meteorological Society, 2022, 103, E761-E790.	1.7	39
2	Exploring dimethyl sulfide (DMS) oxidation and implications for global aerosol radiative forcing. Atmospheric Chemistry and Physics, 2022, 22, 1549-1573.	1.9	33
3	A versatile vacuum ultraviolet ion source for reduced pressure bipolar chemical ionization mass spectrometry. Atmospheric Measurement Techniques, 2022, 15, 1159-1169.	1.2	7
4	Hydrogen chloride (HCl) at ground sites during CalNex 2010 and insight into its thermodynamic properties. Journal of Geophysical Research D: Atmospheres, 2022, 127, 1-16.	1.2	1
5	Airborne Emission Rate Measurements Validate Remote Sensing Observations and Emission Inventories of Western U.S. Wildfires. Environmental Science & amp; Technology, 2022, 56, 7564-7577.	4.6	15
6	HCOOH in the Remote Atmosphere: Constraints from Atmospheric Tomography (ATom) Airborne Observations. ACS Earth and Space Chemistry, 2021, 5, 1436-1454.	1.2	13
7	Quantifying Nitrous Acid Formation Mechanisms Using Measured Vertical Profiles During the CalNex 2010 Campaign and 1D Column Modeling. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034689.	1.2	10
8	Measurements of Total OH Reactivity During CalNex‣A. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD032988.	1.2	5
9	Validation of a new cavity ring-down spectrometer for measuring tropospheric gaseous hydrogen chloride. Atmospheric Measurement Techniques, 2021, 14, 5859-5871.	1.2	7
10	Global tropospheric halogen (Cl, Br, I) chemistry and its impact on oxidants. Atmospheric Chemistry and Physics, 2021, 21, 13973-13996.	1.9	57
11	Chemical Tomography in a Fresh Wildland Fire Plume: A Large Eddy Simulation (LES) Study. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035203.	1.2	16
12	Rapid cloud removal of dimethyl sulfide oxidation products limits SO <sub>2</sub> and cloud condensation nuclei production in the marine atmosphere. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	28
13	Nighttime and daytime dark oxidation chemistry in wildfire plumes: an observation and model analysis of FIREX-AQ aircraft data. Atmospheric Chemistry and Physics, 2021, 21, 16293-16317.	1.9	34
14	Novel Analysis to Quantify Plume Crosswind Heterogeneity Applied to Biomass Burning Smoke. Environmental Science & Technology, 2021, 55, 15646-15657.	4.6	11
15	Ozone chemistry in western U.S. wildfire plumes. Science Advances, 2021, 7, eabl3648.	4.7	45
16	Formaldehyde evolution in US wildfire plumes during the Fire Influence on Regional to Global Environments and Air Quality experiment (FIREX-AQ). Atmospheric Chemistry and Physics, 2021, 21, 18319-18331.	1.9	24
17	Exploring Oxidation in the Remote Free Troposphere: Insights From Atmospheric Tomography (ATom). Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031685.	1.2	23
18	Global airborne sampling reveals a previously unobserved dimethyl sulfide oxidation mechanism in the marine atmosphere. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4505-4510.	3.3	118

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19	AÂvacuum ultraviolet ion source (VUV-IS) for iodide–chemical ionization mass spectrometry: a substitute for radioactive ion sources. Atmospheric Measurement Techniques, 2020, 13, 3683-3696.	1.2	14
20	A portable, robust, stable, and tunable calibration source for gas-phase nitrous acid (HONO). Atmospheric Measurement Techniques, 2020, 13, 5873-5890.	1.2	14
21	Effects of gas–wall interactions on measurements of semivolatile compounds and small polar molecules. Atmospheric Measurement Techniques, 2019, 12, 3137-3149.	1.2	45
22	On the sources and sinks of atmospheric VOCs: an integrated analysis of recent aircraft campaigns over North America. Atmospheric Chemistry and Physics, 2019, 19, 9097-9123.	1.9	32
23	Nighttime Chemical Transformation in Biomass Burning Plumes: A Box Model Analysis Initialized with Aircraft Observations. Environmental Science & Technology, 2019, 53, 2529-2538.	4.6	68
24	Hydrocarbon Removal in Power Plant Plumes Shows Nitrogen Oxide Dependence of Hydroxyl Radicals. Geophysical Research Letters, 2019, 46, 7752-7760.	1.5	9
25	An Odd Oxygen Framework for Wintertime Ammonium Nitrate Aerosol Pollution in Urban Areas: NO <sub>x</sub> and VOC Control as Mitigation Strategies. Geophysical Research Letters, 2019, 46, 4971-4979.	1.5	80
26	Anthropogenic Control Over Wintertime Oxidation of Atmospheric Pollutants. Geophysical Research Letters, 2019, 46, 14826-14835.	1.5	28
27	Diurnal Variability and Emission Pattern of Decamethylcyclopentasiloxane (D <sub>5</sub> ) from the Application of Personal Care Products in Two North American Cities. Environmental Science & Technology, 2018, 52, 5610-5618.	4.6	72
28	Heterogeneous N <sub>2</sub> O <sub>5</sub> Uptake During Winter: Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of Current Parameterizations. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4345-4372.	1.2	103
29	Chemistry of Volatile Organic Compounds in the Los Angeles Basin: Formation of Oxygenated Compounds and Determination of Emission Ratios. Journal of Geophysical Research D: Atmospheres, 2018, 123, 2298-2319.	1.2	43
30	Decadal changes in summertime reactive oxidized nitrogen and surface ozone over the Southeast United States. Atmospheric Chemistry and Physics, 2018, 18, 2341-2361.	1.9	30
31	CINO <sub>2</sub> Yields From Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of the Current Parameterization. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,994.	1.2	31
32	Nitrogen Oxides Emissions, Chemistry, Deposition, and Export Over the Northeast United States During the WINTER Aircraft Campaign. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,368.	1.2	49
33	Airborne Observations of Reactive Inorganic Chlorine and Bromine Species in the Exhaust of Coalâ€Fired Power Plants. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11225-11237.	1.2	33
34	Flight Deployment of a Highâ€Resolution Timeâ€ofâ€Flight Chemical Ionization Mass Spectrometer: Observations of Reactive Halogen and Nitrogen Oxide Species. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7670-7686.	1.2	39
35	A dualâ€chamber method for quantifying the effects of atmospheric perturbations on secondary organic aerosol formation from biomass burning emissions. Journal of Geophysical Research D: Atmospheres, 2017, 122, 6043-6058.	1.2	41
36	Transition from high- to low-NOx control of night-time oxidation in the southeastern US. Nature Geoscience, 2017, 10, 490-495.	5.4	56

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37	Impact of evolving isoprene mechanisms on simulated formaldehyde: An inter-comparison supported by in situ observations from SENEX. Atmospheric Environment, 2017, 164, 325-336.	1.9	33
38	Multi-instrument comparison and compilation of non-methane organic gas emissions from biomass burning and implications for smoke-derived secondary organic aerosol precursors. Atmospheric Chemistry and Physics, 2017, 17, 1471-1489.	1.9	119
39	Investigating diesel engines as an atmospheric source of isocyanic acid in urban areas. Atmospheric Chemistry and Physics, 2017, 17, 8959-8970.	1.9	32
40	Fine particle pH and gas–particle phase partitioning of inorganic species in Pasadena, California, during the 2010 CalNex campaign. Atmospheric Chemistry and Physics, 2017, 17, 5703-5719.	1.9	168
41	Atmospheric chemistry, sources and sinks of carbon suboxide, C <sub>3</sub> O <sub>2</sub> . Atmospheric Chemistry and Physics, 2017, 17, 8789-8804.	1.9	6
42	Observations of VOC emissions and photochemical products over US oil- and gas-producing regions using high-resolution H <sub>3</sub> O <sup>+</sup> CIMS (PTR-ToF-MS). Atmospheric Measurement Techniques, 2017, 10, 2941-2968.	1.2	44
43	Evaluation of the accuracy of thermal dissociation CRDS and LIF techniques for atmospheric measurement of reactive nitrogen species. Atmospheric Measurement Techniques, 2017, 10, 1911-1926.	1.2	18
44	Instrumentation and measurement strategy for the NOAA SENEX aircraft campaign as part of the Southeast Atmosphere Study 2013. Atmospheric Measurement Techniques, 2016, 9, 3063-3093.	1.2	58
45	Evaluation of NO <sup>+</sup> reagent ion chemistry for online measurements of atmospheric volatile organic compounds. Atmospheric Measurement Techniques, 2016, 9, 2909-2925.	1.2	48
46	Photochemical processing of diesel fuel emissions as a large secondary source of isocyanic acid (HNCO). Geophysical Research Letters, 2016, 43, 4033-4041.	1.5	29
47	Measurements of hydroxyl and hydroperoxy radicals during CalNexâ€LA: Model comparisons and radical budgets. Journal of Geophysical Research D: Atmospheres, 2016, 121, 4211-4232.	1.2	81
48	Emissions of nitrogenâ€containing organic compounds from the burning of herbaceous and arboraceous biomass: Fuel composition dependence and the variability of commonly used nitrile tracers. Geophysical Research Letters, 2016, 43, 9903-9912.	1.5	79
49	HONO emission and production determined from airborne measurements over the Southeast U.S Journal of Geophysical Research D: Atmospheres, 2016, 121, 9237-9250.	1.2	46
50	Reactive nitrogen partitioning and its relationship to winter ozone events in Utah. Atmospheric Chemistry and Physics, 2016, 16, 573-583.	1.9	24
51	Formaldehyde production from isoprene oxidation acrossÂNO <sub><i>x</i></sub> Âregimes. Atmospheric Chemistry and Physics, 2016, 16, 2597-2610.	1.9	124
52	Multi-satellite sensor study on precipitation-induced emission pulses of NO <sub><i>x</i></sub> from soils in semi-arid ecosystems. Atmospheric Chemistry and Physics, 2016, 16, 9457-9487.	1.9	17
53	Dimethyl sulfide in the Amazon rain forest. Global Biogeochemical Cycles, 2015, 29, 19-32.	1.9	58
54	Understanding high wintertime ozone pollution events in an oil- and natural gas-producing region of the western US. Atmospheric Chemistry and Physics, 2015, 15, 411-429.	1.9	154

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55	Biomass burning emissions and potential air quality impacts of volatile organic compounds and other trace gases from fuels common in the US. Atmospheric Chemistry and Physics, 2015, 15, 13915-13938.	1.9	177
56	Investigation of secondary formation of formic acid: urban environment vs. oil and gas producing region. Atmospheric Chemistry and Physics, 2015, 15, 1975-1993.	1.9	57
57	Peroxynitric acid (HO <sub>2</sub> NO <sub>2</sub> ) measurements during the UBWOS 2013 and 2014 studies using iodide ion chemical ionization mass spectrometry. Atmospheric Chemistry and Physics. 2015. 15. 8101-8114.	1.9	33
58	Characterization of biomass burning emissions from cooking fires, peat, crop residue, and other fuels with high-resolution proton-transfer-reaction time-of-flight mass spectrometry. Atmospheric Chemistry and Physics, 2015, 15, 845-865.	1.9	266
59	Development of a photochemical source for the production and calibration of acyl peroxynitrate compounds. Atmospheric Measurement Techniques, 2015, 8, 2225-2231.	1.2	6
60	PTR-QMS versus PTR-TOF comparison in a region with oil and natural gas extraction industry in the Uintah Basin in 2013. Atmospheric Measurement Techniques, 2015, 8, 411-420.	1.2	29
61	Airborne measurements of the atmospheric emissions from a fuel ethanol refinery. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4385-4397.	1.2	16
62	An Atmospheric Constraint on the NO <sub>2</sub> Dependence of Daytime Near-Surface Nitrous Acid (HONO). Environmental Science & amp; Technology, 2015, 49, 12774-12781.	4.6	26
63	Characterisation of NO production and consumption: new insights by an improved laboratory dynamic chamber technique. Biogeosciences, 2014, 11, 5463-5492.	1.3	22
64	Measurements of hydrogen sulfide (H <sub>2</sub> S) using PTR-MS: calibration, humidity dependence, inter-comparison and results from field studies in an oil and gas production region. Atmospheric Measurement Techniques, 2014, 7, 3597-3610.	1.2	26
65	New insights into atmospheric sources and sinks of isocyanic acid, HNCO, from recent urban and regional observations. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1060-1072.	1.2	34
66	Using total OH reactivity to assess isoprene photooxidation via measurement and model. Atmospheric Environment, 2014, 89, 453-463.	1.9	40
67	High winter ozone pollution from carbonyl photolysis in an oil and gas basin. Nature, 2014, 514, 351-354.	13.7	265
68	A Measurement of Total Reactive Nitrogen, NO <sub><i>y</i></sub> , together with NO <sub>2</sub> , NO, and O <sub>3</sub> via Cavity Ring-down Spectroscopy. Environmental Science & Technology, 2014, 48, 9609-9615.	4.6	75
69	Fine-scale simulation of ammonium and nitrate over the South Coast Air Basin and San Joaquin Valley of California during CalNex-2010. Journal of Geophysical Research D: Atmospheres, 2014, 119, 3600-3614.	1.2	51
70	Chlorine as a primary radical: evaluation of methods to understand its role in initiation of oxidative cycles. Atmospheric Chemistry and Physics, 2014, 14, 3427-3440.	1.9	90
71	An MCM modeling study of nitryl chloride (ClNO <sub>2</sub> ) impacts on oxidation, ozone production and nitrogen oxide partitioning in polluted continental outflow. Atmospheric Chemistry and Physics, 2014, 14, 3789-3800.	1.9	87
72	Anthropogenic sources of aerosol particles in a football stadium: Real-time characterization of emissions from cigarette smoking, cooking, hand flares, and color smoke bombs by high-resolution aerosol mass spectrometry. Atmospheric Environment, 2013, 77, 1043-1051.	1.9	25

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73	Anthropogenic sources of VOC in a football stadium: Assessing human emissions in the atmosphere. Atmospheric Environment, 2013, 77, 1052-1059.	1.9	62
74	WRF-Chem simulation of NOx and O3 in the L.A. basin during CalNex-2010. Atmospheric Environment, 2013, 81, 421-432.	1.9	34
75	Coupling field and laboratory measurements to estimate the emission factors of identified and unidentified trace gases for prescribed fires. Atmospheric Chemistry and Physics, 2013, 13, 89-116.	1.9	266
76	Heterogeneous formation of nitryl chloride and its role as a nocturnal NO <i><sub>x</sub></i> reservoir species during CalNex‣A 2010. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,638.	1.2	65
77	Inorganic and black carbon aerosols in the Los Angeles Basin during CalNex. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1777-1803.	1.2	15
78	Vertically Resolved Measurements of Nighttime Radical Reservoirs in Los Angeles and Their Contribution to the Urban Radical Budget. Environmental Science & Technology, 2012, 46, 10965-10973.	4.6	127
79	Isocyanic acid in a global chemistry transport model: Tropospheric distribution, budget, and identification of regions with potential health impacts. Journal of Geophysical Research, 2012, 117, .	3.3	24
80	On the gasâ€particle partitioning of soluble organic aerosol in two urban atmospheres with contrasting emissions: 2. Gas and particle phase formic acid. Journal of Geophysical Research, 2012, 117, .	3.3	47
81	Evidence of rapid production of organic acids in an urban air mass. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	89
82	Characteristics, sources, and transport of aerosols measured in spring 2008 during the aerosol, radiation, and cloud processes affecting Arctic Climate (ARCPAC) Project. Atmospheric Chemistry and Physics, 2011, 11, 2423-2453.	1.9	259
83	VOC identification and inter-comparison from laboratory biomass burning using PTR-MS and PIT-MS. International Journal of Mass Spectrometry, 2011, 303, 6-14.	0.7	123
84	lsocyanic acid in the atmosphere and its possible link to smoke-related health effects. Proceedings of the United States of America, 2011, 108, 8966-8971.	3.3	166
85	Correction for Roberts et al., Isocyanic acid in the atmosphere and its possible link to smoke-related health effects. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17234-17234.	3.3	6
86	Airborne formaldehyde measurements using PTR-MS: calibration, humidity dependence, inter-comparison and initial results. Atmospheric Measurement Techniques, 2011, 4, 2345-2358.	1.2	80
87	Laboratory measurements of trace gas emissions from biomass burning of fuel types from the southeastern and southwestern United States. Atmospheric Chemistry and Physics, 2010, 10, 11115-11130.	1.9	218
88	Measurement of HONO, HNCO, and other inorganic acids by negative-ion proton-transfer chemical-ionization mass spectrometry (NI-PT-CIMS): application to biomass burning emissions. Atmospheric Measurement Techniques, 2010, 3, 981-990.	1.2	152
89	Development and validation of a portable gas phase standard generation and calibration system for volatile organic compounds. Atmospheric Measurement Techniques, 2010, 3, 683-691.	1.2	61
90	Measurements of gasâ€phase inorganic and organic acids from biomass fires by negativeâ€ion protonâ€transfer chemicalâ€ionization mass spectrometry. Journal of Geophysical Research, 2010, 115, .	3.3	161

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91	Biomass burning in Siberia and Kazakhstan as an important source for haze over the Alaskan Arctic in April 2008. Geophysical Research Letters, 2009, 36, .	1.5	289
92	Development of negative-ion proton-transfer chemical-ionization mass spectrometry (NI-PT-CIMS) for the measurement of gas-phase organic acids in the atmosphere. International Journal of Mass Spectrometry, 2008, 274, 48-55.	0.7	193
93	Volatile organic compounds in northern New England marine and continental environments during the ICARTT 2004 campaign. Journal of Geophysical Research, 2008, 113, .	3.3	38
94	lsoprene emission from terrestrial ecosystems in response to global change: minding the gap between models and observations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 1677-1695.	1.6	121