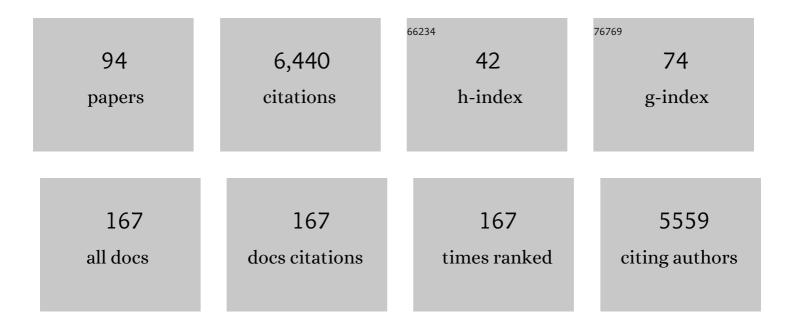
Patrick R Veres

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	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
2	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
3	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
4	High winter ozone pollution from carbonyl photolysis in an oil and gas basin. Nature, 2014, 514, 351-354.	13.7	265
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	Formaldehyde production from isoprene oxidation acrossÂNO _{<i>x</i>} Âregimes. Atmospheric Chemistry and Physics, 2016, 16, 2597-2610.	1.9	124
16	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
17	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
18	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

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19	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
20	Heterogeneous N ₂ O ₅ 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
21	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
22	Evidence of rapid production of organic acids in an urban air mass. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	89
23	An MCM modeling study of nitryl chloride (ClNO ₂) impacts on oxidation, ozone production and nitrogen oxide partitioning in polluted continental outflow. Atmospheric Chemistry and Physics, 2014, 14, 3789-3800.	1.9	87
24	Measurements of hydroxyl and hydroperoxy radicals during CalNex‣A: Model comparisons and radical budgets. Journal of Geophysical Research D: Atmospheres, 2016, 121, 4211-4232.	1.2	81
25	Airborne formaldehyde measurements using PTR-MS: calibration, humidity dependence, inter-comparison and initial results. Atmospheric Measurement Techniques, 2011, 4, 2345-2358.	1.2	80
26	An Odd Oxygen Framework for Wintertime Ammonium Nitrate Aerosol Pollution in Urban Areas: NO _x and VOC Control as Mitigation Strategies. Geophysical Research Letters, 2019, 46, 4971-4979.	1.5	80
27	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
28	A Measurement of Total Reactive Nitrogen, NO _{<i>y</i>} , together with NO ₂ , NO, and O ₃ via Cavity Ring-down Spectroscopy. Environmental Science & Technology, 2014, 48, 9609-9615.	4.6	75
29	Diurnal Variability and Emission Pattern of Decamethylcyclopentasiloxane (D ₅) from the Application of Personal Care Products in Two North American Cities. Environmental Science & Technology, 2018, 52, 5610-5618.	4.6	72
30	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
31	Heterogeneous formation of nitryl chloride and its role as a nocturnal NO <i>_x</i> reservoir species during CalNexâ€LA 2010. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,638.	1.2	65
32	Anthropogenic sources of VOC in a football stadium: Assessing human emissions in the atmosphere. Atmospheric Environment, 2013, 77, 1052-1059.	1.9	62
33	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
34	Dimethyl sulfide in the Amazon rain forest. Global Biogeochemical Cycles, 2015, 29, 19-32.	1.9	58
35	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
36	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

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37	Global tropospheric halogen (Cl, Br, I) chemistry and its impact on oxidants. Atmospheric Chemistry and Physics, 2021, 21, 13973-13996.	1.9	57
38	Transition from high- to low-NOx control of night-time oxidation in the southeastern US. Nature Geoscience, 2017, 10, 490-495.	5.4	56
39	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
40	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
41	Evaluation of NO ⁺ reagent ion chemistry for online measurements of atmospheric volatile organic compounds. Atmospheric Measurement Techniques, 2016, 9, 2909-2925.	1.2	48
42	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
43	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
44	Effects of gas–wall interactions on measurements of semivolatile compounds and small polar molecules. Atmospheric Measurement Techniques, 2019, 12, 3137-3149.	1.2	45
45	Ozone chemistry in western U.S. wildfire plumes. Science Advances, 2021, 7, eabl3648.	4.7	45
46	Observations of VOC emissions and photochemical products over US oil- and gas-producing regions using high-resolution H ₃ O ⁺ CIMS (PTR-ToF-MS). Atmospheric Measurement Techniques, 2017, 10, 2941-2968.	1.2	44
47	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
48	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
49	Using total OH reactivity to assess isoprene photooxidation via measurement and model. Atmospheric Environment, 2014, 89, 453-463.	1.9	40
50	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
51	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
52	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
53	WRF-Chem simulation of NOx and O3 in the L.A. basin during CalNex-2010. Atmospheric Environment, 2013, 81, 421-432.	1.9	34
54	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

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55	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
56	Peroxynitric acid (HO ₂ NO ₂) 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
57	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
58	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
59	Exploring dimethyl sulfide (DMS) oxidation and implications for global aerosol radiative forcing. Atmospheric Chemistry and Physics, 2022, 22, 1549-1573.	1.9	33
60	Investigating diesel engines as an atmospheric source of isocyanic acid in urban areas. Atmospheric Chemistry and Physics, 2017, 17, 8959-8970.	1.9	32
61	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
62	ClNO ₂ 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
63	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
64	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
65	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
66	Anthropogenic Control Over Wintertime Oxidation of Atmospheric Pollutants. Geophysical Research Letters, 2019, 46, 14826-14835.	1.5	28
67	Rapid cloud removal of dimethyl sulfide oxidation products limits SO ₂ 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
68	Measurements of hydrogen sulfide (H ₂ 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
69	An Atmospheric Constraint on the NO ₂ Dependence of Daytime Near-Surface Nitrous Acid (HONO). Environmental Science & amp; Technology, 2015, 49, 12774-12781.	4.6	26
70	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
71	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
72	Reactive nitrogen partitioning and its relationship to winter ozone events in Utah. Atmospheric Chemistry and Physics, 2016, 16, 573-583.	1.9	24

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73	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
74	Exploring Oxidation in the Remote Free Troposphere: Insights From Atmospheric Tomography (ATom). Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031685.	1.2	23
75	Characterisation of NO production and consumption: new insights by an improved laboratory dynamic chamber technique. Biogeosciences, 2014, 11, 5463-5492.	1.3	22
76	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
77	Multi-satellite sensor study on precipitation-induced emission pulses of NO _{<i>x</i>} from soils in semi-arid ecosystems. Atmospheric Chemistry and Physics, 2016, 16, 9457-9487.	1.9	17
78	Airborne measurements of the atmospheric emissions from a fuel ethanol refinery. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4385-4397.	1.2	16
79	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
80	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
81	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
82	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
83	A portable, robust, stable, and tunable calibration source for gas-phase nitrous acid (HONO). Atmospheric Measurement Techniques, 2020, 13, 5873-5890.	1.2	14
84	HCOOH in the Remote Atmosphere: Constraints from Atmospheric Tomography (ATom) Airborne Observations. ACS Earth and Space Chemistry, 2021, 5, 1436-1454.	1.2	13
85	Novel Analysis to Quantify Plume Crosswind Heterogeneity Applied to Biomass Burning Smoke. Environmental Science & Technology, 2021, 55, 15646-15657.	4.6	11
86	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
87	Hydrocarbon Removal in Power Plant Plumes Shows Nitrogen Oxide Dependence of Hydroxyl Radicals. Geophysical Research Letters, 2019, 46, 7752-7760.	1.5	9
88	Validation of a new cavity ring-down spectrometer for measuring tropospheric gaseous hydrogen chloride. Atmospheric Measurement Techniques, 2021, 14, 5859-5871.	1.2	7
89	A versatile vacuum ultraviolet ion source for reduced pressure bipolar chemical ionization mass spectrometry. Atmospheric Measurement Techniques, 2022, 15, 1159-1169.	1.2	7
90	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

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91	Development of a photochemical source for the production and calibration of acyl peroxynitrate compounds. Atmospheric Measurement Techniques, 2015, 8, 2225-2231.	1.2	6
92	Atmospheric chemistry, sources and sinks of carbon suboxide, C ₃ O ₂ . Atmospheric Chemistry and Physics, 2017, 17, 8789-8804.	1.9	6
93	Measurements of Total OH Reactivity During CalNex‣A. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD032988.	1.2	5
94	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