

Joost de Gouw

List of PR Articles by Year in descending order

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210

PR articles

16,432

PR citations

5577

72

PR h-index

10611

124

g-index

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17303

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6658

75

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11972

citing authors

#	ARTICLE	IF	PR CITATIONS
1	Physical Health Symptoms and Perceptions of Air Quality among Residents of Smoke-Damaged Homes from a Wildland Urban Interface Fire. , 2025, 2, 13-23.		13
2	Volatile Organic Compounds Inside Homes Impacted by Smoke from the Marshall Fire. , 2025, 2, 4-12.		11
3	Air Pollution Inequality in the Denver Metroplex and its Relationship to Historical Redlining. Environmental Science & Technology, 2024, 58, 4226-4236.	11.3	10
4	Absorption of volatile organic compounds (VOCs) by polymer tubing: implications for indoor air and use as a simple gas-phase volatility separation technique. Atmospheric Measurement Techniques, 2024, 17, 1545-1559.	2.9	8
5	Effects of 222 nm Germicidal Ultraviolet Light on Aerosol and VOC Formation from Limonene. , 2024, 1, 725-733.		16
6	Secondary Organic Aerosol Formation from the OH Oxidation of Phenol, Catechol, Styrene, Furfural, and Methyl Furfural. ACS Earth and Space Chemistry, 2024, 8, 1179-1192.	3.2	3
7	Significant Biogenic Source of Oxygenated Volatile Organic Compounds and the Impacts on Photochemistry at a Regional Background Site in South China. Environmental Science & Technology, 2024, 58, 20081-20090.	11.3	18
8	Widespread Frequent Methane Emissions From the Oil and Gas Industry in the Permian Basin. Journal of Geophysical Research D: Atmospheres, 2023, 128, .	3.1	14
9	Investigation of Gas-Phase Products from the NO ₃ Radical Oxidation of Î³-Carene. ACS Earth and Space Chemistry, 2023, 7, 1097-1106.	3.2	4
10	Residual impacts of a wildland urban interface fire on urban particulate matter and dust: a study from the Marshall Fire. Air Quality, Atmosphere and Health, 2023, 16, 1839-1850.	2.7	23
11	COVID-19 Impact on the Oil and Gas Industry NO ₂ Emissions: A Case Study of the Permian Basin. Journal of Geophysical Research D: Atmospheres, 2023, 128, .	3.1	2
12	Evolution of organic carbon in the laboratory oxidation of biomass-burning emissions. Atmospheric Chemistry and Physics, 2023, 23, 7887-7899.	4.6	5
13	Significant Production of Ozone from Germicidal UV Lights at 222 nm. Environmental Science and Technology Letters, 2023, 10, 668-674.	9.1	44
14	SO ₂ /TROPOMI-Derived NO _x Emissions From Copper/Cobalt Mining and Other Industrial Activities in the Copperbelt (Democratic Republic of Congo and Zambia). Geophysical Research Letters, 2023, 50, .	4.2	6
15	Measurements of volatile organic compounds in ambient air by gas-chromatography and real-time Vocus PTR-TOF-MS: calibrations, instrument background corrections, and introducing a PTR Data Toolkit. Atmospheric Measurement Techniques, 2023, 16, 5261-5285.	2.9	18
16	Sources of Formaldehyde in U.S. Oil and Gas Production Regions. ACS Earth and Space Chemistry, 2023, 7, 2444-2457.	3.2	8
17	Analyzing the Impact of Evolving Combustion Conditions on the Composition of Wildfire Emissions Using Satellite Data. Geophysical Research Letters, 2023, 50, .	4.2	9
18	Quantifying NO _x Emissions from U.S. Oil and Gas Production Regions Using TROPOMI NO ₂ . ACS Earth and Space Chemistry, 2022, 6, 403-414.	3.2	34

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19	Teaching Instrumental Analysis during the Pandemic: Application of Handheld CO ₂ Monitors to Explore COVID-19 Transmission Risks. <i>Journal of Chemical Education</i> , 2022, 99, 1794-1801.	2.9	7
20	Next-Generation Isoprene Measurements From Space: Detecting Daily Variability at High Resolution. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.1	38
21	Insights into the significant increase in ozone during COVID-19 in a typical urban city of China. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 4853-4866.	4.6	52
22	Hydrogen chloride (HCl) at ground sites during CalNex 2010 and insight into its thermodynamic properties. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, , .	3.1	1
23	Reactive Chlorine Emissions from Cleaning and Reactive Nitrogen Chemistry in an Indoor Athletic Facility. <i>Environmental Science & Technology</i> , 2022, 56, 15408-15416.	11.3	17
24	GLOVOCS - Master compound assignment guide for proton transfer reaction mass spectrometry users. <i>Atmospheric Environment</i> , 2021, 244, 117929.	3.8	47
25	An in situ gas chromatograph with automatic detector switching between PTR- and EI-TOF-MS: isomer-resolved measurements of indoor air. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 133-152.	2.9	69
26	Revisiting Acetonitrile as Tracer of Biomass Burning in Anthropogenic-Influenced Environments. <i>Geophysical Research Letters</i> , 2021, 48, .	4.2	43
27	Quantifying Methane and Ozone Precursor Emissions from Oil and Gas Production Regions across the Contiguous US. <i>Environmental Science & Technology</i> , 2021, 55, 9129-9139.	11.3	46
28	Measurements of Total OH Reactivity During CalNex-2010. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, .	3.1	17
29	Secondary organic aerosols from anthropogenic volatile organic compounds contribute substantially to air pollution mortality. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11201-11224.	4.6	114
30	Sources of Gas-Phase Species in an Art Museum from Comprehensive Real-Time Measurements. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2252-2267.	3.2	16
31	Measurements of Volatile Organic Compounds During the COVID-19 Lockdown in Changzhou, China. <i>Geophysical Research Letters</i> , 2021, 48, .	4.2	23
32	Assessment of Updated Fuel-Based Emissions Inventories Over the Contiguous United States Using TROPOMI NO ₂ Retrievals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, .	3.1	34
33	Societal shifts due to COVID-19 reveal large-scale complexities and feedbacks between atmospheric chemistry and climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.8	81
34	In the Footsteps of My Countrymen: Atmospheric Chemistry in New England, Los Angeles, and the Southeast United States. <i>Perspectives of Earth and Space Scientists</i> , 2021, 2, .	0.2	1
35	Contrasting Reactive Organic Carbon Observations in the Southeast United States (SOAS) and Southern California (CalNex). <i>Environmental Science & Technology</i> , 2020, 54, 14923-14935.	11.3	26
36	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.	4.6	67

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37	Satellite isoprene retrievals constrain emissions and atmospheric oxidation. <i>Nature</i> , 2020, 585, 225-233.	39.5	89
38	Oxygenated Aromatic Compounds are Important Precursors of Secondary Organic Aerosol in Biomass-Burning Emissions. <i>Environmental Science & Technology</i> , 2020, 54, 8568-8579.	11.3	123
39	Daily Satellite Observations of Methane from Oil and Gas Production Regions in the United States. <i>Scientific Reports</i> , 2020, 10, .	3.5	101
40	Estimation of Secondary Organic Aerosol Formation During a Photochemical Smog Episode in Shanghai, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, .	3.1	28
41	Drivers of cloud droplet number variability in the summertime in the southeastern United States. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12163-12176.	4.6	15
42	The nitrogen budget of laboratory-simulated western US wildfires during the FIREX 2016 Fire Lab study. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8807-8826.	4.6	60
43	Black carbon lofts wildfire smoke high into the stratosphere to form a persistent plume. <i>Science</i> , 2019, 365, 587-590.	37.0	238
44	Effects of gas-wall interactions on measurements of semivolatile compounds and small polar molecules. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 3137-3149.	2.9	59
45	Measurements of delays of gas-phase compounds in a wide variety of tubing materials due to gas-wall interactions. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 3453-3461.	2.9	84
46	Secondary organic aerosol formation from the laboratory oxidation of biomass burning emissions. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12797-12809.	4.6	96
47	Budgets of Organic Carbon Composition and Oxidation in Indoor Air. <i>Environmental Science & Technology</i> , 2019, 53, 13053-13063.	11.3	48
48	On the sources and sinks of atmospheric VOCs: an integrated analysis of recent aircraft campaigns over North America. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9097-9123.	4.6	43
49	Nighttime Chemical Transformation in Biomass Burning Plumes: A Box Model Analysis Initialized with Aircraft Observations. <i>Environmental Science & Technology</i> , 2019, 53, 2529-2538.	11.3	106
50	Products and Secondary Organic Aerosol Yields from the OH and NO ₃ Radical-Initiated Oxidation of Resorcinol. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1248-1259.	3.2	24
51	Hydrocarbon Removal in Power Plant Plumes Shows Nitrogen Oxide Dependence of Hydroxyl Radicals. <i>Geophysical Research Letters</i> , 2019, 46, 7752-7760.	4.2	12
52	Time-Resolved Measurements of Indoor Chemical Emissions, Deposition, and Reactions in a University Art Museum. <i>Environmental Science & Technology</i> , 2019, 53, 4794-4802.	11.3	113
53	Anthropogenic enhancements to production of highly oxygenated molecules from autoxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6641-6646.	7.8	102
54	An Odd Oxygen Framework for Wintertime Ammonium Nitrate Aerosol Pollution in Urban Areas: NO _x and VOC Control as Mitigation Strategies. <i>Geophysical Research Letters</i> , 2019, 46, 4971-4979.	4.2	104

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55	Importance of biogenic volatile organic compounds to acyl peroxy nitrates (APN) production in the southeastern US during SOAS 2013. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1867-1880.	4.6	12
56	Simulating the Weekly Cycle of NO _x + VOC + HO ₂ + O ₃ Photochemical System in the South Coast of California During CalNex 2010 Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3532-3555.	3.1	13
57	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.	4.6	111
58	Effects of temperature-dependent NO _x emissions on continental ozone production. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2601-2614.	4.6	96
59	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.	11.3	111
60	Monoterpenes are the largest source of summertime organic aerosol in the southeastern United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2038-2043.	7.8	243
61	Volatile chemical products emerging as largest petrochemical source of urban organic emissions. <i>Science</i> , 2018, 359, 760-764.	37.0	1,018
62	Chemistry of Volatile Organic Compounds in the Los Angeles Basin: Formation of Oxygenated Compounds and Determination of Emission Ratios. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2298-2319.	3.1	68
63	Identification and Quantification of 4-Nitrocatechol Formed from OH and NO ₃ Radical-Initiated Reactions of Catechol in Air in the Presence of NO _x : Implications for Secondary Organic Aerosol Formation from Biomass Burning. <i>Environmental Science & Technology</i> , 2018, 52, 1981-1989.	11.3	165
64	Nitrous acid formation in a snow-free wintertime polluted rural area. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1977-1996.	4.6	29
65	Southeast Atmosphere Studies: learning from model-observation syntheses. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2615-2651.	4.6	40
66	Aerosol optical properties and trace gas emissions by PAX and OP-FTIR for laboratory-simulated western US wildfires during FIREX. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2929-2948.	4.6	128
67	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.	4.6	310
68	Laboratory investigations of Titan haze formation: In situ measurement of gas and particle composition. <i>Icarus</i> , 2018, 301, 136-151.	2.9	47
69	Primary emissions of glyoxal and methylglyoxal from laboratory measurements of open biomass burning. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15451-15470.	4.6	41
70	Secondary organic aerosol production from local emissions dominates the organic aerosol budget over Seoul, South Korea, during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17769-17800.	4.6	131
71	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.	4.6	139
72	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.	6.6	285

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73	Development of a Fuel-Based Oil and Gas Inventory of Nitrogen Oxides Emissions. <i>Environmental Science & Technology</i> , 2018, 52, 10175-10185.	11.3	29
74	Impact of high-resolution a priori profiles on satellite-based formaldehyde retrievals. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7639-7655.	4.6	3
75	Secondary organic aerosol (SOA) yields from NO ₂ radical + isoprene based on nighttime aircraft power plant plume transects. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11663-11682.	4.6	63
76	Quantifying Methane and Ethane Emissions to the Atmosphere From Central and Western U.S. Oil and Natural Gas Production Regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 7725-7740.	3.1	97
77	Modeling Ozone in the Eastern U.S. using a Fuel-Based Mobile Source Emissions Inventory. <i>Environmental Science & Technology</i> , 2018, 52, 7360-7370.	11.3	86
78	Summertime tropospheric ozone enhancement associated with a cold front passage due to stratosphere-to-troposphere transport and biomass burning: Simultaneous ground-based lidar and airborne measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1293-1311.	3.1	20
79	Proton-Transfer-Reaction Mass Spectrometry: Applications in Atmospheric Sciences. <i>Chemical Reviews</i> , 2017, 117, 13187-13229.	52.3	411
80	Automated single-ion peak fitting as an efficient approach for analyzing complex chromatographic data. <i>Journal of Chromatography A</i> , 2017, 1529, 81-92.	3.8	46
81	Gasoline cars produce more carbonaceous particulate matter than modern filter-equipped diesel cars. <i>Scientific Reports</i> , 2017, 7, .	3.5	162
82	Emissions of volatile organic compounds (VOCs) from concentrated animal feeding operations (CAFOs): chemical compositions and separation of sources. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4945-4956.	4.6	62
83	Investigating diesel engines as an atmospheric source of isocyanic acid in urban areas. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8959-8970.	4.6	35
84	Chemistry of Volatile Organic Compounds in the Los Angeles basin: Nighttime Removal of Alkenes and Determination of Emission Ratios. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, .	3.1	58
85	Qualitative and quantitative analysis of atmospheric organosulfates in Centreville, Alabama. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 1343-1359.	4.6	94
86	Ethene, propene, butene and isoprene emissions from a ponderosa pine forest measured by relaxed eddy accumulation. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13417-13438.	4.6	42
87	An improved, automated whole air sampler and gas chromatography mass spectrometry analysis system for volatile organic compounds in the atmosphere. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 291-313.	2.9	68
88	Observations of VOC emissions and photochemical products over US oil- and gas-producing regions using high-resolution H ₂ O ⁺ CIMS (PTR-ToF-MS). <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2941-2968.	2.9	49
89	Effects of gas-wall partitioning in Teflon tubing and instrumentation on time-resolved measurements of gas-phase organic compounds. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 4687-4696.	2.9	118
90	A high-resolution time-of-flight chemical ionization mass spectrometer utilizing hydronium ions (H ₃ O ⁺ ToF-CIMS) for measurements of volatile organic compounds in the atmosphere. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2735-2752.	2.9	92

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91	Instrumentation and measurement strategy for the NOAA SENEX aircraft campaign as part of the Southeast Atmosphere Study 2013. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 3063-3093.	2.9	62
92	Evaluation of NO ₂ ⁺ reagent ion chemistry for online measurements of atmospheric volatile organic compounds. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2909-2925.	2.9	57
93	Isoprene suppression of new particle formation: Potential mechanisms and implications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, .	3.1	45
94	Correction to "Modeling the Radical Chemistry in an Oxidation Flow Reactor: Radical Formation and Recycling, Sensitivities, and the OH Exposure Estimation Equation". <i>Journal of Physical Chemistry A</i> , 2016, 120, 9886-9886.	2.7	1
95	Secondary formation of nitrated phenols: insights from observations during the Uintah Basin Winter Ozone Study (UBWOS) 2014. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2139-2153.	4.6	110
96	Reactive nitrogen partitioning and its relationship to winter ozone events in Utah. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 573-583.	4.6	27
97	Volatility and lifetime against OH heterogeneous reaction of ambient isoprene-epoxydiols-derived secondary organic aerosol (IEPOX-SOA). <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11563-11580.	4.6	97
98	Formaldehyde production from isoprene oxidation across NO ₂ regimes. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2597-2610.	4.6	166
99	Real-time measurements of secondary organic aerosol formation and aging from ambient air in an oxidation flow reactor in the Los Angeles area. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7411-7433.	4.6	159
100	The lifetime of nitrogen oxides in an isoprene-dominated forest. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7623-7637.	4.6	84
101	Speciation of OH reactivity above the canopy of an isoprene-dominated forest. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9349-9359.	4.6	62
102	Correction to "Modeling the Radical Chemistry in an Oxidation Flow Reactor: Radical Formation and Recycling, Sensitivities, and the OH Exposure Estimation Equation". <i>Journal of Physical Chemistry A</i> , 2016, 120, 2605-2605.	2.7	1
103	Atmospheric fates of Criegee intermediates in the ozonolysis of isoprene. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10241-10254.	2.8	201
104	Highly functionalized organic nitrates in the southeast United States: Contribution to secondary organic aerosol and reactive nitrogen budgets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1516-1521.	7.8	320
105	Continued emissions of carbon tetrachloride from the United States nearly two decades after its phaseout for dispersive uses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2880-2885.	7.8	40
106	Understanding high wintertime ozone pollution events in an oil- and natural gas-producing region of the western US. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 411-429.	4.6	160
107	Modeling the formation and aging of secondary organic aerosols in Los Angeles during CalNex 2010. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5773-5801.	4.6	156
108	Reassessing the ratio of glyoxal to formaldehyde as an indicator of hydrocarbon precursor speciation. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7571-7583.	4.6	70

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109	Biomass burning emissions and potential air quality impacts of volatile organic compounds and other trace gases from fuels common in the US. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13915-13938.	4.6	215
110	Investigation of secondary formation of formic acid: urban environment vs. oil and gas producing region. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1975-1993.	4.6	63
111	A large and ubiquitous source of atmospheric formic acid. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6283-6304.	4.6	241
112	Peroxyoxynitric acid (HO ₂ NO ₂) measurements during the UBWOS 2013 and 2014 studies using iodide ion chemical ionization mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8101-8114.	4.6	45
113	Corrigendum to "In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC ⁴ RS: observations of a modest aerosol enhancement aloft" published in <i>Atmos. Chem. Phys.</i> , 15, 7085-7102. 2015. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8455-8455.	4.6	1
114	Particulate organic nitrates observed in an oil and natural gas production region during wintertime. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 9313-9325.	4.6	16
115	VOC species and emission inventory from vehicles and their SOA formation potentials estimation in Shanghai, China. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11081-11096.	4.6	88
116	Observation of isoprene hydroxynitrates in the southeastern United States and implications for the fate of NO _x . <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11257-11272.	4.6	81
117	Organic nitrate aerosol formation via NO ₃ + biogenic volatile organic compounds in the southeastern United States. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13377-13392.	4.6	136
118	Photochemical aging of volatile organic compounds associated with oil and natural gas extraction in the Uintah Basin, UT, during a wintertime ozone formation event. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5727-5741.	4.6	35
119	In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC ⁴ RS: observations of a modest aerosol enhancement aloft. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7085-7102.	4.6	53
120	Gas and aerosol carbon in California: comparison of measurements and model predictions in Pasadena and Bakersfield. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5243-5258.	4.6	53
121	Effects of anthropogenic emissions on aerosol formation from isoprene and monoterpenes in the southeastern United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 37-42.	7.8	569
122	PTR-QMS versus PTR-TOF comparison in a region with oil and natural gas extraction industry in the Uintah Basin in 2013. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 411-420.	2.9	31
123	Modeling the Radical Chemistry in an Oxidation Flow Reactor: Radical Formation and Recycling, Sensitivities, and the OH Exposure Estimation Equation. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4418-4432.	2.7	161
124	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. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3597-3610.	2.9	28
125	Intermediate-Volatility Organic Compounds: A Large Source of Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2014, 48, 13743-13750.	11.3	283
126	A portable and inexpensive method for quantifying ambient intermediate volatility organic compounds. <i>Atmospheric Environment</i> , 2014, 94, 126-133.	3.8	7

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127	Interpretation of volatile organic compound measurements by proton-transfer-reaction mass spectrometry over the deepwater horizon oil spill. <i>International Journal of Mass Spectrometry</i> , 2014, 358, 43-48.	1.6	44
128	The role of benzene photolysis in Titan haze formation. <i>Icarus</i> , 2014, 233, 233-241.	2.9	44
129	Volatile and intermediate volatility organic compounds in suburban Paris: variability, origin and importance for SOA formation. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10439-10464.	4.6	119
130	Atmospheric amines and ammonia measured with a chemical ionization mass spectrometer (CIMS). <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12181-12194.	4.6	146
131	Low temperatures enhance organic nitrate formation: evidence from observations in the 2012 Uintah Basin Winter Ozone Study. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12441-12454.	4.6	42
132	Emission factor ratios, SOA mass yields, and the impact of vehicular emissions on SOA formation. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2383-2397.	4.6	91
133	Quantifying global terrestrial methanol emissions using observations from the TES satellite sensor. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2555-2570.	4.6	42
134	Emissions of organic carbon and methane from petroleum and dairy operations in California's San Joaquin Valley. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4955-4978.	4.6	61
135	Volatile organic compound emissions from the oil and natural gas industry in the Uintah Basin, Utah: oil and gas well pad emissions compared to ambient air composition. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10977-10988.	4.6	110
136	Laboratory Studies on Secondary Organic Aerosol Formation from Crude Oil Vapors. <i>Environmental Science & Technology</i> , 2013, 47, 12566-12574.	11.3	41
137	Source Signature of Volatile Organic Compounds from Oil and Natural Gas Operations in Northeastern Colorado. <i>Environmental Science & Technology</i> , 2013, 47, 1297-1305.	11.3	351
138	Coupling field and laboratory measurements to estimate the emission factors of identified and unidentified trace gases for prescribed fires. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 89-116.	4.6	299
139	Ozone photochemistry in an oil and natural gas extraction region during winter: simulations of a snow-free season in the Uintah Basin, Utah. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8955-8971.	4.6	109
140	Biogenic VOC oxidation and organic aerosol formation in an urban nocturnal boundary layer: aircraft vertical profiles in Houston, TX. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 11317-11337.	4.6	57
141	Secondary organic aerosol formation and primary organic aerosol oxidation from biomass-burning smoke in a flow reactor during FLAME-3. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 11551-11571.	4.6	250
142	Modelled and measured concentrations of peroxy radicals and nitrate radical in the U.S. Gulf Coast region during TexAQS 2006. <i>Journal of Atmospheric Chemistry</i> , 2012, 68, 331-362.	1.6	11
143	Chemical data quantify <i>Deepwater Horizon</i> hydrocarbon flow rate and environmental distribution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> . 2012, 109, 20246-20253.	7.8	270
144	Tropospheric methanol observations from space: retrieval evaluation and constraints on the seasonality of biogenic emissions. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 5897-5912.	4.6	41

#	ARTICLE	IF	PR CITATIONS
145	Primary and secondary sources of formaldehyde in urban atmospheres: Houston Texas region. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3273-3288.	4.6	185
146	Air quality implications of the Deepwater Horizon oil spill. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20280-20285.	7.8	91
147	Mass Spectral Analysis of Organic Aerosol Formed Downwind of the Deepwater Horizon Oil Spill: Field Studies and Laboratory Confirmations. <i>Environmental Science & Technology</i> , 2012, 46, 8025-8034.	11.3	48
148	Organic Aerosol Formation Downwind from the Deepwater Horizon Oil Spill. <i>Science</i> , 2011, 331, 1295-1299.	37.0	172
149	Measurements of volatile organic compounds at a suburban ground site (T1) in Mexico City during the MILAGRO 2006 campaign: measurement comparison, emission ratios, and source attribution. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2399-2421.	4.6	138
150	Characteristics, sources, and transport of aerosols measured in spring 2008 during the aerosol, radiation, and cloud processes affecting Arctic Climate (ARCPAC) Project. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2423-2453.	4.6	270
151	Ozone production in remote oceanic and industrial areas derived from ship based measurements of peroxy radicals during TexAQS 2006. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2471-2485.	4.6	13
152	Origins and composition of fine atmospheric carbonaceous aerosol in the Sierra Nevada Mountains, California. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10219-10241.	4.6	86
153	The Chemistry of Atmosphere-Forest Exchange (CAFE) Model – Part 2: Application to BEARPEX-2007 observations. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1269-1294.	4.6	86
154	Absorbing aerosol in the troposphere of the Western Arctic during the 2008 ARCTAS/ARCPAC airborne field campaigns. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7561-7582.	4.6	74
155	Chemical and physical transformations of organic aerosol from the photo-oxidation of open biomass burning emissions in an environmental chamber. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7669-7686.	4.6	349
156	Emissions and photochemistry of oxygenated VOCs in urban plumes in the Northeastern United States. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7081-7096.	4.6	48
157	Photochemical modeling of glyoxal at a rural site: observations and analysis from BEARPEX 2007. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8883-8897.	4.6	43
158	Volatile organic compound emissions from switchgrass cultivars used as biofuel crops. <i>Atmospheric Environment</i> , 2011, 45, 3333-3337.	3.8	31
159	VOC identification and inter-comparison from laboratory biomass burning using PTR-MS and PIT-MS. <i>International Journal of Mass Spectrometry</i> , 2011, 303, 6-14.	1.6	136
160	Isocyanic acid in the atmosphere and its possible link to smoke-related health effects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8966-8971.	7.8	182
161	Airborne formaldehyde measurements using PTR-MS: calibration, humidity dependence, inter-comparison and initial results. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 2345-2358.	2.9	87
162	Laboratory measurements of trace gas emissions from biomass burning of fuel types from the southeastern and southwestern United States. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11115-11130.	4.6	245

#	ARTICLE	IF	PR CITATIONS
163	Global atmospheric budget of acetaldehyde: 3-D model analysis and constraints from in-situ and satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3405-3425.	4.6	300
164	Observational constraints on the global atmospheric budget of ethanol. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5361-5370.	4.6	60
165	Chemical evolution of volatile organic compounds in the outflow of the Mexico City Metropolitan area. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2353-2375.	4.6	138
166	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. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 981-990.	2.9	169
167	Development and validation of a portable gas phase standard generation and calibration system for volatile organic compounds. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 683-691.	2.9	67
168	Comparison of air pollutant emissions among mega-cities. <i>Atmospheric Environment</i> , 2009, 43, 6435-6441.	3.8	133
169	Source Identification of Reactive Hydrocarbons and Oxygenated VOCs in the Summertime in Beijing. <i>Environmental Science & Technology</i> , 2009, 43, 75-81.	11.3	105
170	Airborne Measurements of Ethene from Industrial Sources Using Laser Photo-Acoustic Spectroscopy. <i>Environmental Science & Technology</i> , 2009, 43, 2437-2442.	11.3	58
171	Emission and chemistry of organic carbon in the gas and aerosol phase at a sub-urban site near Mexico City in March 2006 during the MILAGRO study. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3425-3442.	4.6	117
172	Methyl chavicol: characterization of its biogenic emission rate, abundance, and oxidation products in the atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 2061-2074.	4.6	53
173	Nocturnal isoprene oxidation over the Northeast United States in summer and its impact on reactive nitrogen partitioning and secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3027-3042.	4.6	138
174	Radicals in the marine boundary layer during NEAQS 2004: a model study of day-time and night-time sources and sinks. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3075-3093.	4.6	33
175	In-situ ambient quantification of monoterpenes, sesquiterpenes, and related oxygenated compounds during BEARPEX 2007: implications for gas- and particle-phase chemistry. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 5505-5518.	4.6	182
176	Closing the peroxy acetyl nitrate budget: observations of acyl peroxy nitrates (PAN, PPN, and MPAN) during BEARPEX 2007. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 7623-7641.	4.6	118
177	A study of organic nitrates formation in an urban plume using a Master Chemical Mechanism. <i>Atmospheric Environment</i> , 2008, 42, 5771-5786.	3.8	34
178	New constraints on terrestrial and oceanic sources of atmospheric methanol. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6887-6905.	4.6	183
179	Lagrangian analysis of low altitude anthropogenic plume processing across the North Atlantic. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 7737-7754.	4.6	49
180	Fine aerosol bulk composition measured on WP-3D research aircraft in vicinity of the Northeastern United States – results from NEAQS. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 3231-3247.	4.6	49

#	ARTICLE	IF	PR CITATIONS
181	Mixing between a stratospheric intrusion and a biomass burning plume. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4229-4235.	4.6	43
182	Cluster Analysis of the Organic Peaks in Bulk Mass Spectra Obtained During the 2002 New England Air Quality Study with an Aerodyne Aerosol Mass Spectrometer. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 5649-5666.	4.6	40
183	Aircraft observations of daytime NO ₃ and N ₂ O ₅ and their implications for tropospheric chemistry. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 176, 270-278.	4.3	75
184	Development of proton-transfer ion trap-mass spectrometry: on-line detection and identification of volatile organic compounds in air. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 1316-1324.	2.7	88
185	Inter-comparison of Laser Photoacoustic Spectroscopy and Gas Chromatography Techniques for Measurements of Ethene in the Atmosphere. <i>Environmental Science & Technology</i> , 2005, 39, 4581-4585.	11.3	8
186	Online Volatile Organic Compound Measurements Using a Newly Developed Proton-Transfer Ion-Trap Mass Spectrometry Instrument during New England Air Quality Study/Intercontinental Transport and Chemical Transformation 2004: A Performance, Intercomparison, and Compound Identification. <i>Environmental Science & Technology</i> , 2005, 39, 5390-5397.	11.3	60
187	Proton-Transfer-Reaction Mass Spectrometry as a New Tool for Real Time Analysis of Root-Secreted Volatile Organic Compounds in Arabidopsis. <i>Plant Physiology</i> , 2004, 135, 47-58.	5.5	218
188	Evaluation of the role of heterogeneous oxidation of alkenes in the detection of atmospheric acetaldehyde. <i>Atmospheric Environment</i> , 2004, 38, 6017-6028.	3.8	49
189	Validation of Atmospheric VOC Measurements by Proton-Transfer- Reaction Mass Spectrometry Using a Gas-Chromatographic Preseparation Method. <i>Environmental Science & Technology</i> , 2003, 37, 2494-2501.	11.3	265
190	Chemical characteristics assigned to trajectory clusters during the MINOS campaign. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 459-468.	4.6	62
191	The impact of monsoon outflow from India and Southeast Asia in the upper troposphere over the eastern Mediterranean. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 1589-1608.	4.6	88
192	On the relationship between acetone and carbon monoxide in different air masses. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 1709-1723.	4.6	32
193	Deep convective injection of boundary layer air into the lowermost stratosphere at midlatitudes. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 739-745.	4.6	87
194	Formaldehyde over the eastern Mediterranean during MINOS: Comparison of airborne in-situ measurements with 3D-model results. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 851-861.	4.6	56
195	The Indian Ocean Experiment: Widespread Air Pollution from South and Southeast Asia. <i>Science</i> , 2001, 291, 1031-1036.	37.0	714
196	Proton-Transfer Chemical-Ionization Mass Spectrometry Allows Real-Time Analysis of Volatile Organic Compounds Released from Cutting and Drying of Crops. <i>Environmental Science & Technology</i> , 2000, 34, 2640-2648.	11.3	96
197	Direct Measurement of the Rate Coefficient for the CH ₂ C(CH ₃)C(O)O ₂ + NO Reaction Using Chemical Ionization Mass Spectrometry. <i>Journal of Physical Chemistry A</i> , 1997, 101, 8662-8667.	2.7	15
198	Measured and calculated mobilities of cluster ions drifting in helium and in nitrogen. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 167-168, 281-289.	1.6	17

#	ARTICLE	IF	PR CITATIONS
199	Charge-transfer rate constants for $N_2^+(\hat{I}_{1/2} = 0 \hat{\epsilon}^4)$ with Ar at thermal energies. Chemical Physics Letters, 1996, 256, 305-311.	2.8	33
200	Mobilities of Aromatic Ions Drifting in Helium. The Journal of Physical Chemistry, 1996, 100, 14908-14913.	3.1	26
201	Vibrational energy dependence of the reaction $N_2^+(v) + H_2 \hat{\rightarrow} N_2H^+ + H$ at thermal energies. Chemical Physics Letters, 1995, 240, 362-368.	2.8	17
202	Resonant Auger spectra of the $2p-1n_l$ states of argon. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, 2127-2141.	1.8	33
203	Threshold effects in the Auger decay of argon photoexcited below the $2p_{3/2}$ threshold. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, 1761-1775.	1.8	13
204	Resonances in the photoionization of argon and krypton in the region of the inner-shell excited states. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 3915-3926.	1.8	5
205	Observation of coherence between the photoionization of different inner-shell vacancy states of argon and krypton. Physical Review A, 1994, 50, 4013-4024.	2.8	12
206	Coherence between the photoionization of different inner-shell vacancy states of argon. Physical Review Letters, 1993, 71, 2875-2878.	8.3	19
207	Coherence between the excitation of states with different energies. European Physical Journal Special Topics, 1993, 03, C6-207-C6-216.	0.4	0
208	Cross sections and coherences for energy pooling reactions between two $Na^*(3p)$ atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 1992, 25, 2841-2861.	1.8	19
209	Threshold effects in Auger spectra of photoionized argon. Journal of Physics B: Atomic, Molecular and Optical Physics, 1992, 25, 2007-2015.	1.8	21
210	Polarization dependence of energy pooling reactions between two $Na^*(3p)$ atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 1990, 23, L553-L557.	1.8	9