

Joost de Gouw

List of Publications by Year in descending order

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333
papers

32,080
citations

2975

93
h-index

7950

149
g-index

484
all docs

484
docs citations

484
times ranked

14045
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.7	15
2	Teaching Instrumental Analysis during the Pandemic: Application of Handheld CO ₂ Monitors to Explore COVID-19 Transmission Risks. Journal of Chemical Education, 2022, 99, 1794-1801.	2.3	5
3	Next-Generation Isoprene Measurements From Space: Detecting Daily Variability at High Resolution. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	11
4	Insights into the significant increase in ozone during COVID-19 in a typical urban city of China. Atmospheric Chemistry and Physics, 2022, 22, 4853-4866.	4.9	25
5	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.	3.3	1
6	Quantification and source characterization of volatile organic compounds from exercising and application of chlorine-based cleaning products in a university athletic center. Indoor Air, 2021, 31, 1323-1339.	4.3	32
7	GLOVOCS - Master compound assignment guide for proton transfer reaction mass spectrometry users. Atmospheric Environment, 2021, 244, 117929.	4.1	26
8	An in situ gas chromatograph with automatic detector switching between PTR- and EI-TOF-MS: isomer-resolved measurements of indoor air. Atmospheric Measurement Techniques, 2021, 14, 133-152.	3.1	31
9	Cloud droplets aid the production of formic acid in the atmosphere. Nature, 2021, 593, 198-199.	27.8	12
10	Coupled Air Quality and Boundary-Layer Meteorology in Western U.S. Basins during Winter: Design and Rationale for a Comprehensive Study. Bulletin of the American Meteorological Society, 2021, 102, E2012-E2033.	3.3	14
11	Revisiting Acetonitrile as Tracer of Biomass Burning in Anthropogenic-Influenced Environments. Geophysical Research Letters, 2021, 48, e2020GL092322.	4.0	21
12	Quantifying Methane and Ozone Precursor Emissions from Oil and Gas Production Regions across the Contiguous US. Environmental Science & Technology, 2021, 55, 9129-9139.	10.0	23
13	Measurements of Total OH Reactivity During CalNex-1A. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD032988.	3.3	5
14	Secondary organic aerosols from anthropogenic volatile organic compounds contribute substantially to air pollution mortality. Atmospheric Chemistry and Physics, 2021, 21, 11201-11224.	4.9	60
15	Sources of Gas-Phase Species in an Art Museum from Comprehensive Real-Time Measurements. ACS Earth and Space Chemistry, 2021, 5, 2252-2267.	2.7	7
16	Measurements of Volatile Organic Compounds During the COVID-19 Lockdown in Changzhou, China. Geophysical Research Letters, 2021, 48, e2021GL095560.	4.0	12
17	Assessment of Updated Fuel-Based Emissions Inventories Over the Contiguous United States Using TROPOMI NO ₂ Retrievals. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035484.	3.3	18
18	Societal shifts due to COVID-19 reveal large-scale complexities and feedbacks between atmospheric chemistry and climate change. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	42

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19	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, .	0.3	0
20	Nitrogen Oxide Emissions from U.S. Oil and Gas Production: Recent Trends and Source Attribution. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085866.	4.0	31
21	Contrasting Reactive Organic Carbon Observations in the Southeast United States (SOAS) and Southern California (CalNex). <i>Environmental Science & Technology</i> , 2020, 54, 14923-14935.	10.0	15
22	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.	4.9	41
23	Satellite isoprene retrievals constrain emissions and atmospheric oxidation. <i>Nature</i> , 2020, 585, 225-233.	27.8	53
24	Oxygenated Aromatic Compounds are Important Precursors of Secondary Organic Aerosol in Biomass-Burning Emissions. <i>Environmental Science & Technology</i> , 2020, 54, 8568-8579.	10.0	72
25	Daily Satellite Observations of Methane from Oil and Gas Production Regions in the United States. <i>Scientific Reports</i> , 2020, 10, 1379.	3.3	76
26	Measurements and modeling of absorptive partitioning of volatile organic compounds to painted surfaces. <i>Indoor Air</i> , 2020, 30, 745-756.	4.3	27
27	Estimation of Secondary Organic Aerosol Formation During a Photochemical Smog Episode in Shanghai, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032033.	3.3	21
28	Drivers of cloud droplet number variability in the summertime in the southeastern United States. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12163-12176.	4.9	12
29	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.	4.9	45
30	Black carbon lofts wildfire smoke high into the stratosphere to form a persistent plume. <i>Science</i> , 2019, 365, 587-590.	12.6	159
31	Effects of gas–wall interactions on measurements of semivolatile compounds and small polar molecules. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 3137-3149.	3.1	45
32	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.	3.1	64
33	Secondary organic aerosol formation from the laboratory oxidation of biomass burning emissions. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12797-12809.	4.9	67
34	Budgets of Organic Carbon Composition and Oxidation in Indoor Air. <i>Environmental Science & Technology</i> , 2019, 53, 13053-13063.	10.0	37
35	Autoxidation of Limonene Emitted in a University Art Museum. <i>Environmental Science and Technology Letters</i> , 2019, 6, 520-524.	8.7	21
36	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.	4.9	32

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37	Nighttime Chemical Transformation in Biomass Burning Plumes: A Box Model Analysis Initialized with Aircraft Observations. <i>Environmental Science & Technology</i> , 2019, 53, 2529-2538.	10.0	68
38	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.	2.7	20
39	Hydrocarbon Removal in Power Plant Plumes Shows Nitrogen Oxide Dependence of Hydroxyl Radicals. <i>Geophysical Research Letters</i> , 2019, 46, 7752-7760.	4.0	9
40	Time-Resolved Measurements of Indoor Chemical Emissions, Deposition, and Reactions in a University Art Museum. <i>Environmental Science & Technology</i> , 2019, 53, 4794-4802.	10.0	89
41	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.	2.8	68
42	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.	7.1	78
43	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.	4.0	80
44	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.	4.9	10
45	Simulating the Weekly Cycle of NO _x + VOC + HO 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.	3.3	8
46	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.	4.9	92
47	Effects of temperature-dependent NO _x emissions on continental ozone production. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2601-2614.	4.9	62
48	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.	10.0	72
49	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.	7.1	186
50	Volatile chemical products emerging as largest petrochemical source of urban organic emissions. <i>Science</i> , 2018, 359, 760-764.	12.6	716
51	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.	3.3	43
52	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.	10.0	116
53	Synthesis of the Southeast Atmosphere Studies: Investigating Fundamental Atmospheric Chemistry Questions. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 547-567.	3.3	62
54	Nitrous acid formation in a snow-free wintertime polluted rural area. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1977-1996.	4.9	22

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55	Southeast Atmosphere Studies: learning from model-observation syntheses. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2615-2651.	4.9	36
56	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.	4.9	103
57	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.	4.9	233
58	Laboratory investigations of Titan haze formation: In situ measurement of gas and particle composition. <i>Icarus</i> , 2018, 301, 136-151.	2.5	37
59	Intercomparison of OH and OH reactivity measurements in a high isoprene and low NO environment during the Southern Oxidant and Aerosol Study (SOAS). <i>Atmospheric Environment</i> , 2018, 174, 227-236.	4.1	22
60	Primary emissions of glyoxal and methylglyoxal from laboratory measurements of open biomass burning. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15451-15470.	4.9	28
61	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.	4.9	105
62	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.	4.9	102
63	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.	6.5	168
64	Development of a Fuel-Based Oil and Gas Inventory of Nitrogen Oxides Emissions. <i>Environmental Science & Technology</i> , 2018, 52, 10175-10185.	10.0	19
65	Impact of high-resolution a priori profiles on satellite-based formaldehyde retrievals. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7639-7655.	4.9	2
66	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.	4.9	47
67	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.	3.3	74
68	Modeling Ozone in the Eastern U.S. using a Fuel-Based Mobile Source Emissions Inventory. <i>Environmental Science & Technology</i> , 2018, 52, 7360-7370.	10.0	64
69	Limited impact of sulfate-driven chemistry on black carbon aerosol aging in power plant plumes. <i>AIMS Environmental Science</i> , 2018, 5, 195-215.	1.4	1
70	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.	3.3	17
71	Calculation of the sensitivity of proton-transfer-reaction mass spectrometry (PTR-MS) for organic trace gases using molecular properties. <i>International Journal of Mass Spectrometry</i> , 2017, 421, 71-94.	1.5	101
72	Biological cycling of volatile organic carbon by phytoplankton and bacterioplankton. <i>Limnology and Oceanography</i> , 2017, 62, 2650-2661.	3.1	52

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73	Review of Urban Secondary Organic Aerosol Formation from Gasoline and Diesel Motor Vehicle Emissions. <i>Environmental Science & Technology</i> , 2017, 51, 1074-1093.	10.0	348
74	Proton-Transfer-Reaction Mass Spectrometry: Applications in Atmospheric Sciences. <i>Chemical Reviews</i> , 2017, 117, 13187-13229.	47.7	282
75	Automated single-ion peak fitting as an efficient approach for analyzing complex chromatographic data. <i>Journal of Chromatography A</i> , 2017, 1529, 81-92.	3.7	35
76	Transition from high- to low-NO _x control of night-time oxidation in the southeastern US. <i>Nature Geoscience</i> , 2017, 10, 490-495.	12.9	56
77	Gasoline cars produce more carbonaceous particulate matter than modern filter-equipped diesel cars. <i>Scientific Reports</i> , 2017, 7, 4926.	3.3	133
78	Impact of evolving isoprene mechanisms on simulated formaldehyde: An inter-comparison supported by in situ observations from SENEX. <i>Atmospheric Environment</i> , 2017, 164, 325-336.	4.1	33
79	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.	4.9	53
80	Investigating diesel engines as an atmospheric source of isocyanic acid in urban areas. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8959-8970.	4.9	32
81	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, 11,843.	3.3	37
82	Qualitative and quantitative analysis of atmospheric organosulfates in Centreville, Alabama. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 1343-1359.	4.9	75
83	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.	4.9	30
84	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.	3.1	54
85	Analysis of local-scale background concentrations of methane and other gas-phase species in the Marcellus Shale. <i>Elementa</i> , 2017, 5, .	3.2	25
86	Observations of VOC emissions and photochemical products over US oil- and gas-producing regions using high-resolution H ₃ O ⁺ -ToF-CIMS (PTR-ToF-MS). <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2941-2968.	3.1	44
87	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.	3.1	100
88	Influence of Long-Range Transport of Siberian Biomass Burning at the Mt. Bachelor Observatory during the Spring of 2015. <i>Aerosol and Air Quality Research</i> , 2017, 17, 2751-2761.	2.1	6
89	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.	3.1	79
90	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.	3.1	58

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91	Evaluation of NO _x reagent ion chemistry for online measurements of atmospheric volatile organic compounds. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2909-2925.	3.1	48
92	Contribution of human-related sources to indoor volatile organic compounds in a university classroom. <i>Indoor Air</i> , 2016, 26, 925-938.	4.3	91
93	Observational constraints on glyoxal production from isoprene oxidation and its contribution to organic aerosol over the Southeast United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9849-9861.	3.3	48
94	Isoprene suppression of new particle formation: Potential mechanisms and implications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 14,621.	3.3	37
95	Measurements of hydroxyl and hydroperoxy radicals during CalNex: Model comparisons and radical budgets. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 4211-4232.	3.3	81
96	Testing Atmospheric Oxidation in an Alabama Forest. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 4699-4710.	1.7	54
97	Emissions of nitrogen-containing organic compounds from the burning of herbaceous and arboraceous biomass: Fuel composition dependence and the variability of commonly used nitrile tracers. <i>Geophysical Research Letters</i> , 2016, 43, 9903-9912.	4.0	79
98	Influence of oil and gas emissions on summertime ozone in the Colorado Northern Front Range. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 8712-8729.	3.3	86
99	Enhanced formation of isoprene-derived organic aerosol in sulfur-rich power plant plumes during Southeast Nexus. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,137.	3.3	50
100	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.	4.9	85
101	Reactive nitrogen partitioning and its relationship to winter ozone events in Utah. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 573-583.	4.9	24
102	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.	4.9	82
103	Formaldehyde production from isoprene oxidation across NO _x regimes. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2597-2610.	4.9	124
104	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.	4.9	137
105	The lifetime of nitrogen oxides in an isoprene-dominated forest. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7623-7637.	4.9	75
106	Speciation of OH reactivity above the canopy of an isoprene-dominated forest. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9349-9359.	4.9	59
107	Atmospheric fates of Criegee intermediates in the ozonolysis of isoprene. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10241-10254.	2.8	179
108	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.	7.1	269

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109	Continued emissions of carbon tetrachloride from the United States nearly two decades after its phaseout for dispersive uses. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2880-2885.	7.1	32
110	Airborne flux measurements of methane and volatile organic compounds over the Haynesville and Marcellus shale gas production regions. Journal of Geophysical Research D: Atmospheres, 2015, 120, 6271-6289.	3.3	56
111	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.	4.9	154
112	Modeling the formation and aging of secondary organic aerosols in Los Angeles during CalNex 2010. Atmospheric Chemistry and Physics, 2015, 15, 5773-5801.	4.9	139
113	Reassessing the ratio of glyoxal to formaldehyde as an indicator of hydrocarbon precursor speciation. Atmospheric Chemistry and Physics, 2015, 15, 7571-7583.	4.9	55
114	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.	4.9	177
115	Investigation of secondary formation of formic acid: urban environment vs. oil and gas producing region. Atmospheric Chemistry and Physics, 2015, 15, 1975-1993.	4.9	57
116	A large and ubiquitous source of atmospheric formic acid. Atmospheric Chemistry and Physics, 2015, 15, 6283-6304.	4.9	197
117	Peroxyoxynitric 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.	4.9	33
118	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 Atmos. Chem. Phys., 15, 7085-7102, 2015. Atmospheric Chemistry and Physics, 2015, 15, 8455-8455.	4.9	1
119	Particulate organic nitrates observed in an oil and natural gas production region during wintertime. Atmospheric Chemistry and Physics, 2015, 15, 9313-9325.	4.9	14
120	Chemistry-turbulence interactions and mesoscale variability influence the cleansing efficiency of the atmosphere. Geophysical Research Letters, 2015, 42, 10,894.	4.0	30
121	VOC species and emission inventory from vehicles and their SOA formation potentials estimation in Shanghai, China. Atmospheric Chemistry and Physics, 2015, 15, 11081-11096.	4.9	77
122	Observation of isoprene hydroxynitrates in the southeastern United States and implications for the fate of NO _x . Atmospheric Chemistry and Physics, 2015, 15, 11257-11272.	4.9	75
123	Characterization of a real-time tracer for isoprene epoxydiols-derived secondary organic aerosol (IEPOX-SOA) from aerosol mass spectrometer measurements. Atmospheric Chemistry and Physics, 2015, 15, 11807-11833.	4.9	185
124	Organic nitrate aerosol formation via NO ₃ + biogenic volatile organic compounds in the southeastern United States. Atmospheric Chemistry and Physics, 2015, 15, 13377-13392.	4.9	124
125	Photochemical aging of volatile organic compounds associated with oil and natural gas extraction in the Uintah Basin, UT, during a wintertime ozone formation event. Atmospheric Chemistry and Physics, 2015, 15, 5727-5741.	4.9	33
126	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. Atmospheric Chemistry and Physics, 2015, 15, 7085-7102.	4.9	50

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127	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.	4.9	48
128	Quantifying atmospheric methane emissions from the Haynesville, Fayetteville, and northeastern Marcellus shale gas production regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2119-2139.	3.3	164
129	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.	7.1	496
130	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.	3.1	29
131	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.	2.5	126
132	Airborne measurements of the atmospheric emissions from a fuel ethanol refinery. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 4385-4397.	3.3	16
133	Emissions of C ₆ -C ₈ aromatic compounds in the United States: Constraints from tall tower and aircraft measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 826-842.	3.3	44
134	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.	3.1	26
135	Reduced emissions of CO ₂ , NO _x , and SO ₂ from U.S. power plants owing to switch from coal to natural gas with combined cycle technology. <i>Earth's Future</i> , 2014, 2, 75-82.	6.3	219
136	New insights into atmospheric sources and sinks of isocyanic acid, HNCO, from recent urban and regional observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1060-1072.	3.3	34
137	Nocturnal loss of NO _x during the 2010 CalNex-LA study in the Los Angeles Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 13,004.	3.3	26
138	Intermediate-Volatility Organic Compounds: A Large Source of Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2014, 48, 13743-13750.	10.0	221
139	A portable and inexpensive method for quantifying ambient intermediate volatility organic compounds. <i>Atmospheric Environment</i> , 2014, 94, 126-133.	4.1	7
140	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.	1.5	42
141	High winter ozone pollution from carbonyl photolysis in an oil and gas basin. <i>Nature</i> , 2014, 514, 351-354.	27.8	265
142	The role of benzene photolysis in Titan haze formation. <i>Icarus</i> , 2014, 233, 233-241.	2.5	40
143	Conversion of hydroperoxides to carbonyls in field and laboratory instrumentation: Observational bias in diagnosing pristine versus anthropogenically controlled atmospheric chemistry. <i>Geophysical Research Letters</i> , 2014, 41, 8645-8651.	4.0	99
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