

Thomas B Ryerson

List of Publications by Year in descending order

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216
papers

17,495
citations

9756

73
h-index

22102

113
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273
all docs

273
docs citations

273
times ranked

10526
citing authors

#	ARTICLE	IF	CITATIONS
1	The NASA Atmospheric Tomography (ATom) Mission: Imaging the Chemistry of the Global Atmosphere. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E761-E790.	1.7	39
2	The <i>Fires, Asian, and Stratospheric Transport</i>“Las Vegas Ozone Study (<i>FAST</i>-LVOS). <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 1707-1737.	1.9	7
3	Photochemical evolution of the 2013 California Rim Fire: synergistic impacts of reactive hydrocarbons and enhanced oxidants. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 4253-4275.	1.9	9
4	Large hemispheric difference in nucleation mode aerosol concentrations in the lowermost stratosphere at mid- and high latitudes. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9065-9088.	1.9	8
5	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.	4.6	23
6	Impact of stratospheric air and surface emissions on tropospheric nitrous oxide during ATom. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11113-11132.	1.9	5
7	Secondary organic aerosols from anthropogenic volatile organic compounds contribute substantially to air pollution mortality. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11201-11224.	1.9	60
8	Chemical Tomography in a Fresh Wildland Fire Plume: A Large Eddy Simulation (LES) Study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035203.	1.2	16
9	Heterogeneity and chemical reactivity of the remote troposphere defined by aircraft measurements. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13729-13746.	1.9	4
10	Ambient aerosol properties in the remote atmosphere from global-scale in situ measurements. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 15023-15063.	1.9	15
11	UAS Chromatograph for Atmospheric Trace Species (UCATS) “ a versatile instrument for trace gas measurements on airborne platforms. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 6795-6819.	1.2	9
12	Nighttime and daytime dark oxidation chemistry in wildfire plumes: an observation and model analysis of FIREX-AQ aircraft data. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16293-16317.	1.9	34
13	Novel Analysis to Quantify Plume Crosswind Heterogeneity Applied to Biomass Burning Smoke. <i>Environmental Science & Technology</i> , 2021, 55, 15646-15657.	4.6	11
14	Ozone chemistry in western U.S. wildfire plumes. <i>Science Advances</i> , 2021, 7, eabl3648.	4.7	45
15	Large contribution of biomass burning emissions to ozone throughout the global remote troposphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	51
16	Formaldehyde evolution in US wildfire plumes during the Fire Influence on Regional to Global Environments and Air Quality experiment (FIREX-AQ). <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 18319-18331.	1.9	24
17	Biomass burning nitrogen dioxide emissions derived from space with TROPOMI: methodology and validation. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 7929-7957.	1.2	27
18	Exploring Oxidation in the Remote Free Troposphere: Insights From Atmospheric Tomography (ATom). <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031685.	1.2	23

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19	Global Atmospheric Budget of Acetone: Air–Sea Exchange and the Contribution to Hydroxyl Radicals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032553.	1.2	17
20	Missing OH reactivity in the global marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4013-4029.	1.9	25
21	Evidence of Nighttime Production of Organic Nitrates During SEAC 4 RS, FRAPPÅ%, and KORUSâ€AQ. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087860.	1.5	7
22	Single-photon laser-induced fluorescence detection of nitric oxide at sub-parts-per-trillion mixing ratios. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 2425-2439.	1.2	18
23	Global airborne sampling reveals a previously unobserved dimethyl sulfide oxidation mechanism in the marine atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 4505-4510.	3.3	118
24	Characterizing sources of high surface ozone events in the southwestern US with intensive field measurements and two global models. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10379-10400.	1.9	15
25	Global-scale distribution of ozone in the remote troposphere from the ATom and HIPPO airborne field missions. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10611-10635.	1.9	31
26	Constraining remote oxidation capacity with ATom observations. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7753-7781.	1.9	36
27	A cavity-enhanced ultraviolet absorption instrument for high-precision, fast-time-response ozone measurements. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6877-6887.	1.2	6
28	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.	1.9	32
29	Nighttime Chemical Transformation in Biomass Burning Plumes: A Box Model Analysis Initialized with Aircraft Observations. <i>Environmental Science & Technology</i> , 2019, 53, 2529-2538.	4.6	68
30	Hydrocarbon Removal in Power Plant Plumes Shows Nitrogen Oxide Dependence of Hydroxyl Radicals. <i>Geophysical Research Letters</i> , 2019, 46, 7752-7760.	1.5	9
31	Towards a satellite formaldehyde â€“ in situ hybrid estimate for organic aerosol abundance. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2765-2785.	1.9	15
32	Mapping hydroxyl variability throughout the global remote troposphere via synthesis of airborne and satellite formaldehyde observations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11171-11180.	3.3	58
33	Atmospheric Acetaldehyde: Importance of Air–Sea Exchange and a Missing Source in the Remote Troposphere. <i>Geophysical Research Letters</i> , 2019, 46, 5601-5613.	1.5	41
34	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.	3.3	78
35	Role of Criegee Intermediates in Secondary Sulfate Aerosol Formation in Nocturnal Power Plant Plumes in the Southeast US. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 748-759.	1.2	16
36	Simulating the Weekly Cycle of NO _x + VOC + HO _x + O ₃ Photochemical System in the South Coast of California During CalNexâ€2010 Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3532-3555.	1.2	8

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37	Inversion Estimates of Lognormally Distributed Methane Emission Rates From the Haynesville-Bossier Oil and Gas Production Region Using Airborne Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3520-3531.	1.2	18
38	An aerosol particle containing enriched uranium encountered in the remote upper troposphere. <i>Journal of Environmental Radioactivity</i> , 2018, 184-185, 95-100.	0.9	6
39	Volatile chemical products emerging as largest petrochemical source of urban organic emissions. <i>Science</i> , 2018, 359, 760-764.	6.0	716
40	Decadal changes in summertime reactive oxidized nitrogen and surface ozone over the Southeast United States. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2341-2361.	1.9	30
41	Atmospheric oxidation in the presence of clouds during the Deep Convective Clouds and Chemistry (DC3) study. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14493-14510.	1.9	18
42	Constraints on Aerosol Nitrate Photolysis as a Potential Source of HONO and NO ₂ . <i>Environmental Science & Technology</i> , 2018, 52, 13738-13746.	4.6	79
43	Methyl, Ethyl, and Propyl Nitrates: Global Distribution and Impacts on Reactive Nitrogen in Remote Marine Environments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,429.	1.2	33
44	Development of a Fuel-Based Oil and Gas Inventory of Nitrogen Oxides Emissions. <i>Environmental Science & Technology</i> , 2018, 52, 10175-10185.	4.6	19
45	Flow rate and source reservoir identification from airborne chemical sampling of the uncontrolled Elgin platform gas release. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 1725-1739.	1.2	11
46	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.	1.9	47
47	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.	1.2	74
48	Modeling Ozone in the Eastern U.S. using a Fuel-Based Mobile Source Emissions Inventory. <i>Environmental Science & Technology</i> , 2018, 52, 7360-7370.	4.6	64
49	Limited impact of sulfate-driven chemistry on black carbon aerosol aging in power plant plumes. <i>AIMS Environmental Science</i> , 2018, 5, 195-215.	0.7	1
50	Summertime tropospheric ozone enhancement associated with a cold front passage due to stratosphere-troposphere transport and biomass burning: Simultaneous ground-based lidar and airborne measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1293-1311.	1.2	17
51	Methane, Black Carbon, and Ethane Emissions from Natural Gas Flares in the Bakken Shale, North Dakota. <i>Environmental Science & Technology</i> , 2017, 51, 5317-5325.	4.6	74
52	Airborne measurements of western U.S. wildfire emissions: Comparison with prescribed burning and air quality implications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6108-6129.	1.2	184
53	Emissions of Glyoxal and Other Carbonyl Compounds from Agricultural Biomass Burning Plumes Sampled by Aircraft. <i>Environmental Science & Technology</i> , 2017, 51, 11761-11770.	4.6	38
54	Ozone Design Values in Southern California's Air Basins: Temporal Evolution and U.S. Background Contribution. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11,166.	1.2	31

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55	Lightning NO _x Emissions: Reconciling Measured and Modeled Estimates With Updated NO _x Chemistry. <i>Geophysical Research Letters</i> , 2017, 44, 9479-9488.	1.5	56
56	Transition from high- to low-NO _x control of night-time oxidation in the southeastern US. <i>Nature Geoscience</i> , 2017, 10, 490-495.	5.4	56
57	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.	1.9	33
58	On-road measurements of vehicle NO ₂ /NO _x emission ratios in Denver, Colorado, USA. <i>Atmospheric Environment</i> , 2017, 148, 182-189.	1.9	63
59	Top-down estimate of methane emissions in California using a mesoscale inverse modeling technique: The San Joaquin Valley. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3686-3699.	1.2	26
60	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.	1.9	53
61	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.	1.2	54
62	Observations of VOC emissions and photochemical products over US oil- and gas-producing regions using high-resolution H ₂ O ₃ and O ₃ CIMS (PTR-ToF-MS). <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2941-2968.	1.2	44
63	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.	1.2	58
64	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.	1.2	48
65	Modeling the weekly cycle of NO _x and CO emissions and their impacts on O ₃ in the Los Angeles-South Coast Air Basin during the CalNex 2010 field campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 1340-1360.	1.2	51
66	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.	1.5	79
67	Analysis of long-term observations of NO _x and CO in megacities and application to constraining emissions inventories. <i>Geophysical Research Letters</i> , 2016, 43, 9920-9930.	1.5	69
68	Characterization of Ammonia, Methane, and Nitrous Oxide Emissions from Concentrated Animal Feeding Operations in Northeastern Colorado. <i>Environmental Science & Technology</i> , 2016, 50, 10885-10893.	4.6	48
69	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.	1.2	86
70	Airborne quantification of upper tropospheric NO _x production from lightning in deep convective storms over the United States Great Plains. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 2002-2028.	1.2	25
71	HONO emission and production determined from airborne measurements over the Southeast U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9237-9250.	1.2	46
72	Convective transport and scavenging of peroxides by thunderstorms observed over the central U.S. during DC3. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 4272-4295.	1.2	24

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73	Sensitivity to grid resolution in the ability of a chemical transport model to simulate observed oxidant chemistry under high-isoprene conditions. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4369-4378.	1.9	60
74	Formaldehyde production from isoprene oxidation across NO_x regimes. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2597-2610.	1.9	124
75	Organic nitrate chemistry and its implications for nitrogen budgets in an isoprene- and monoterpene-rich atmosphere: constraints from aircraft (SEAC ⁴ RS) and ground-based (SOAS) observations in the Southeast US. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5969-5991.	1.9	173
76	Quantifying atmospheric methane emissions from oil and natural gas production in the Bakken shale region of North Dakota. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6101-6111.	1.2	99
77	Agricultural fires in the southeastern U.S. during SEAC ⁴ RS: Emissions of trace gases and particles and evolution of ozone, reactive nitrogen, and organic aerosol. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7383-7414.	1.2	93
78	Injection of lightning-produced NO_x , water vapor, wildfire emissions, and stratospheric air to the UT/LS as observed from DC3 measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6638-6668.	1.2	28
79	Evaluating N_2O_5 heterogeneous hydrolysis parameterizations for CalNex 2010. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 5051-5070.	1.2	33
80	Fugitive emissions from the Bakken shale illustrate role of shale production in global ethane shift. <i>Geophysical Research Letters</i> , 2016, 43, 4617-4623.	1.5	81
81	Methane emissions from the 2015 Aliso Canyon blowout in Los Angeles, CA. <i>Science</i> , 2016, 351, 1317-1320.	6.0	183
82	Observational Constraints on the Oxidation of NO_x in the Upper Troposphere. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1468-1478.	1.1	23
83	Airborne flux measurements of methane and volatile organic compounds over the Haynesville and Marcellus shale gas production regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 6271-6289.	1.2	56
84	Top-down estimate of methane emissions in California using a mesoscale inverse modeling technique: The South Coast Air Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 6698-6711.	1.2	38
85	Reassessing the ratio of glyoxal to formaldehyde as an indicator of hydrocarbon precursor speciation. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7571-7583.	1.9	55
86	A large and ubiquitous source of atmospheric formic acid. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6283-6304.	1.9	197
87	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.	1.9	1
88	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.	1.9	50
89	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1281-1309.	1.7	165
90	Airborne measurements of organosulfates over the continental U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2990-3005.	1.2	96

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91	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.	1.2	164
92	Black Carbon Emissions from the Bakken Oil and Gas Development Region. <i>Environmental Science and Technology Letters</i> , 2015, 2, 281-285.	3.9	49
93	Airborne measurements of the atmospheric emissions from a fuel ethanol refinery. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 4385-4397.	1.2	16
94	Evaluation of the airborne quantum cascade laser spectrometer (QCLS) measurements of the carbon and greenhouse gas suite "CO ₂ , CH ₄ , N ₂ O, and CO" during the CalNex and HIPPO campaigns. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 1509-1526.	1.2	75
95	Thunderstorms enhance tropospheric ozone by wrapping and shedding stratospheric air. <i>Geophysical Research Letters</i> , 2014, 41, 7785-7790.	1.5	62
96	Changes in nitrogen oxides emissions in California during 2005-2010 indicated from top-down and bottom-up emission estimates. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 12,928.	1.2	16
97	Convective transport of water vapor into the lower stratosphere observed during double-tropopause events. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 10,941-10,958.	1.2	63
98	Chlorine as a primary radical: evaluation of methods to understand its role in initiation of oxidative cycles. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3427-3440.	1.9	90
99	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.	1.9	59
100	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.	1.9	98
101	An investigation of ammonia and inorganic particulate matter in California during the CalNex campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1883-1902.	1.2	69
102	The 2010 California Research at the Nexus of Air Quality and Climate Change (CalNex) field study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5830-5866.	1.2	199
103	WRF-Chem simulation of NO _x and O ₃ in the L.A. basin during CalNex-2010. <i>Atmospheric Environment</i> , 2013, 81, 421-432.	1.9	34
104	Top-down estimate of surface flux in the Los Angeles Basin using a mesoscale inverse modeling technique: assessing anthropogenic emissions of CO, NO _x , and CO ₂ and their impacts. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3661-3677.	1.9	142
105	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.	1.9	100
106	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.	1.9	51
107	Trends in ozone, its precursors, and related secondary oxidation products in Los Angeles, California: A synthesis of measurements from 1960 to 2010. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5893-5911.	1.2	115
108	Quantifying sources of methane using light alkanes in the Los Angeles basin, California. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4974-4990.	1.2	167

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109	Emission estimates of HCFCs and HFCs in California from the 2010 CalNex study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2019-2030.	1.2	10
110	Impact of Southern California anthropogenic emissions on ozone pollution in the mountain states: Model analysis and observational evidence from space. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 12,784.	1.2	21
111	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.	3.3	258
112	Review of flow rate estimates of the <i>Deepwater Horizon</i> oil spill. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20260-20267.	3.3	458
113	Analysis of ozone and nitric acid in spring and summer Arctic pollution using aircraft, ground-based, satellite observations and MOZART-4 model: source attribution and partitioning. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 237-259.	1.9	96
114	Characteristics of tropospheric ozone depletion events in the Arctic spring: analysis of the ARCTAS, ARCPAC, and ARCIONS measurements and satellite BrO observations. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 9909-9922.	1.9	42
115	Analysis of satellite-derived Arctic tropospheric BrO columns in conjunction with aircraft measurements during ARCTAS and ARCPAC. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1255-1285.	1.9	63
116	Analysis of IASI tropospheric O<sub>3</sub> data over the Arctic during POLARCAT campaigns in 2008. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7371-7389.	1.9	29
117	Nucleation and growth of sulfate aerosol in coal-fired power plant plumes: sensitivity to background aerosol and meteorology. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 189-206.	1.9	72
118	Primary and secondary sources of formaldehyde in urban atmospheres: Houston Texas region. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3273-3288.	1.9	153
119	Observation and modeling of the evolution of Texas power plant plumes. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 455-468.	1.9	34
120	Hydrocarbon emissions characterization in the Colorado Front Range: A pilot study. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	359
121	Air quality implications of the <i>Deepwater Horizon</i> oil spill. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20280-20285.	3.3	79
122	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.	4.6	45
123	Airborne and ground-based observations of a weekend effect in ozone, precursors, and oxidation products in the California South Coast Air Basin. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	97
124	A new inversion method to calculate emission inventories without a prior at mesoscale: Application to the anthropogenic CO₂ emission from Houston, Texas. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	44
125	Observations of ozone transport from the free troposphere to the Los Angeles basin. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	38
126	Effects of NO_x control and plume mixing on nighttime chemical processing of plumes from coal-fired power plants. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	20

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127	Evolution of aerosol properties impacting visibility and direct climate forcing in an ammonia-rich urban environment. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	54
128	Ozone and alkyl nitrate formation from the Deepwater Horizon oil spill atmospheric emissions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	16
129	Ammonia sources in the California South Coast Air Basin and their impact on ammonium nitrate formation. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	110
130	Multiyear trends in volatile organic compounds in Los Angeles, California: Five decades of decreasing emissions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	183
131	Airborne observations of methane emissions from rice cultivation in the Sacramento Valley of California. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	50
132	Increasing atmospheric burden of ethanol in the United States. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	41
133	City lights and urban air. <i>Nature Geoscience</i> , 2011, 4, 730-731.	5.4	29
134	Airborne cloud condensation nuclei measurements during the 2006 Texas Air Quality Study. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	91
135	Atmospheric emissions from the Deepwater Horizon spill constrain air-water partitioning, hydrocarbon fate, and leak rate. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	107
136	Characteristics of black carbon aerosol from a surface oil burn during the Deepwater Horizon oil spill. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	34
137	Budgets for nocturnal VOC oxidation by nitrate radicals aloft during the 2006 Texas Air Quality Study. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	63
138	Organic Aerosol Formation Downwind from the Deepwater Horizon Oil Spill. <i>Science</i> , 2011, 331, 1295-1299.	6.0	162
139	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.	1.9	259
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