

# John B Nowak

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

123  
papers

5,024  
citations

43  
h-index

68  
g-index

159  
ext. papers

5,770  
ext. citations

6.3  
avg, IF

4.57  
L-index

#	Paper	IF	Citations
123	Cold Air Outbreaks Promote New Particle Formation Off the U.S. East Coast. <i>Geophysical Research Letters</i> , <b>2022</b> , 49,	4.9	0
122	Airborne Emission Rate Measurements Validate Remote Sensing Observations and Emission Inventories of Western U.S. Wildfires.. <i>Environmental Science &amp; Technology</i> , <b>2022</b> ,	10.3	2
121	Ozone chemistry in western U.S. wildfire plumes. <i>Science Advances</i> , <b>2021</b> , 7, eabl3648	14.3	6
120	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> , <b>2021</b> , 21, 16293-16317	6.8	8
119	Novel Analysis to Quantify Plume Crosswind Heterogeneity Applied to Biomass Burning Smoke. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 15646-15657	10.3	2
118	Seasonal Variability in Local Carbon Dioxide Biomass Burning Sources Over Central and Eastern US Using Airborne In Situ Enhancement Ratios. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD034525	4.4	0
117	Rapid cloud removal of dimethyl sulfide oxidation products limits SO and cloud condensation nuclei production in the marine atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	7
116	Investigation of several proxies to estimate sulfuric acid concentration under volcanic plume conditions. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 4541-4560	6.8	1
115	Airborne Measurements of Contrail Ice Properties Dependence on Temperature and Humidity. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL092166	4.9	1
114	Validation of IASI Satellite Ammonia Observations at the Pixel Scale Using In Situ Vertical Profiles. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD033475	4.4	4
113	Chemical transport models often underestimate inorganic aerosol acidity in remote regions of the atmosphere. <i>Communications Earth &amp; Environment</i> , <b>2021</b> , 2,	6.1	7
112	Cleaner burning aviation fuels can reduce contrail cloudiness. <i>Communications Earth &amp; Environment</i> , <b>2021</b> , 2,	6.1	17
111	Fossil Versus Nonfossil CO Sources in the US: New Airborne Constraints From ACT-America and GEM. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL093361	4.9	3
110	Aircraft-based observation of meteoric material in lower-stratospheric aerosol particles between 15 and 68° N. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 989-1013	6.8	5
109	Atmospheric Carbon and Transport - America (ACT-America) Data Sets: Description, Management, and Delivery. <i>Earth and Space Science</i> , <b>2021</b> , 8, e2020EA001634	3.1	7
108	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> , <b>2021</b> , 21, 18319-18331	6.8	3
107	Size-dependent influence of NO on the growth rates of organic aerosol particles. <i>Science Advances</i> , <b>2020</b> , 6, eaay4945	14.3	28

106	Spatial heterogeneity in CO <sub>2</sub> , CH <sub>4</sub> , and energy fluxes: insights from airborne eddy covariance measurements over the Mid-Atlantic region. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 035008	6.2	6
105	Modeling air quality in the San Joaquin valley of California during the 2013 Discover-AQ field campaign. <i>Atmospheric Environment: X</i> , <b>2020</b> , 5, 100067	2.8	3
104	Multispecies Assessment of Factors Influencing Regional CO <sub>2</sub> and CH <sub>4</sub> Enhancements During the Winter 2017 ACT-America Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD031339	11.4	17
103	High Temporal Resolution Satellite Observations of Fire Radiative Power Reveal Link Between Fire Behavior and Aerosol and Gas Emissions. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL090707	4.9	11
102	Coupling an online ion conductivity measurement with the particle-into-liquid sampler: Evaluation and modeling using laboratory and field aerosol data. <i>Aerosol Science and Technology</i> , <b>2020</b> , 54, 1542-1555	3.4	1
101	Hydrocarbon Removal in Power Plant Plumes Shows Nitrogen Oxide Dependence of Hydroxyl Radicals. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 7752-7760	4.9	5
100	Evidence of New Particle Formation Within Etna and Stromboli Volcanic Plumes and Its Parameterization From Airborne In Situ Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 5650-5668	4.4	11
99	Using Short-Term CO/CO <sub>2</sub> Ratios to Assess Air Mass Differences Over the Korean Peninsula During KORUS-AQ. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 10951-10972	4.4	21
98	Chemical evolution of atmospheric organic carbon over multiple generations of oxidation. <i>Nature Chemistry</i> , <b>2018</b> , 10, 462-468	17.6	58
97	Decadal changes in summertime reactive oxidized nitrogen and surface ozone over the Southeast United States. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 2341-2361	6.8	24
96	Rapid growth of organic aerosol nanoparticles over a wide tropospheric temperature range. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 9122-9127	11.5	73
95	Modeling NHNO Over the San Joaquin Valley During the 2013 DISCOVER-AQ Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 4727-4745	4.4	15
94	The NASA Carbon Airborne Flux Experiment (CARAFE): instrumentation and methodology. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 1757-1776	4	17
93	Evaluating ammonia (NH <sub>3</sub> ) predictions in the NOAA National Air Quality Forecast Capability (NAQFC) using in-situ aircraft and satellite measurements from the CalNex2010 campaign. <i>Atmospheric Environment</i> , <b>2017</b> , 163, 65-76	5.3	27
92	Using advanced mass spectrometry techniques to fully characterize atmospheric organic carbon: current capabilities and remaining gaps. <i>Faraday Discussions</i> , <b>2017</b> , 200, 579-598	3.6	28
91	Emissions of Glyoxal and Other Carbonyl Compounds from Agricultural Biomass Burning Plumes Sampled by Aircraft. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 11761-11770	10.3	25
90	Controlled nitric oxide production via O( <sup>1</sup> D) + N <sub>2</sub> O reactions for use in oxidation flow reactor studies. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 2283-2298	4.2	35
89	Observational assessment of the role of nocturnal residual-layer chemistry in determining daytime surface particulate nitrate concentrations. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 14747-14770	6.8	25

88	Modeling the diurnal variability of agricultural ammonia in Bakersfield, California, during the CalNex campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 2721-2739	6.8	11
87	Modeling the Diurnal Variability of Agricultural Ammonia in Bakersfield, California during CalNex <b>2016</b> ,		1
86	HONO emission and production determined from airborne measurements over the Southeast U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 9237-9250	4.4	34
85	Enhanced formation of isoprene-derived organic aerosol in sulfur-rich power plant plumes during Southeast Nexus. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 11,137-11,153	4.4	38
84	Aerosol optical extinction during the Front Range Air Pollution and Photochemistry Experiment (FRAPP) 2014 summertime field campaign, Colorado, USA. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 11207-11217	6.8	10
83	Impacts of the Denver Cyclone on regional air quality and aerosol formation in the Colorado Front Range during FRAPP 2014. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 12039-12058	6.8	19
82	Interannual variability of ammonia concentrations over the United States: sources and implications. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 12305-12328	6.8	34
81	On the effectiveness of nitrogen oxide reductions as a control over ammonium nitrate aerosol. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 2575-2596	6.8	41
80	The global tropospheric ammonia distribution as seen in the 13-year AIRS measurement record. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 5467-5479	6.8	91
79	Instrumentation and Measurement Strategy for the NOAA SENEX Aircraft Campaign as Part of the Southeast Atmosphere Study 2013. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 3063-3093	4	50
78	Modeling the weekly cycle of NOx and CO emissions and their impacts on O3 in the Los Angeles-South Coast Air Basin during the CalNex 2010 field campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 1340-1360	4.4	43
77	Formation of Low Volatility Organic Compounds and Secondary Organic Aerosol from Isoprene Hydroxyhydroperoxide Low-NO Oxidation. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 10330-9	10.3	139
76	Towards validation of ammonia (NH <sub>3</sub> ) measurements from the IASI satellite. <i>Atmospheric Measurement Techniques</i> , <b>2015</b> , 8, 1575-1591	4	67
75	Airborne measurements of the atmospheric emissions from a fuel ethanol refinery. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 4385-4397	4.4	14
74	Ammonia and methane dairy emission plumes in the San Joaquin Valley of California from individual feedlot to regional scales. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 9718-9738	4.4	22
73	Validation of TES ammonia observations at the single pixel scale in the San Joaquin Valley during DISCOVER-AQ. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 5140-5154	4.4	23
72	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 6721-6744	6.8	52
71	Quantifying atmospheric methane emissions from the Haynesville, Fayetteville, and northeastern Marcellus shale gas production regions. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 21194-21199	4.4	139

70	Fine-scale simulation of ammonium and nitrate over the South Coast Air Basin and San Joaquin Valley of California during CalNex-2010. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 3600-3614	4.4	46
69	Modeling regional aerosol and aerosol precursor variability over California and its sensitivity to emissions and long-range transport during the 2010 CalNex and CARES campaigns. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 10013-10060	6.8	49
68	An investigation of ammonia and inorganic particulate matter in California during the CalNex campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 1883-1902	4.4	63
67	High levels of molecular chlorine in the Arctic atmosphere. <i>Nature Geoscience</i> , <b>2014</b> , 7, 91-94	18.3	79
66	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> , <b>2014</b> , 119, 12,928-12,952	4.4	14
65	Towards validation of ammonia (NH <sub>3</sub> ) measurements from the IASI satellite <b>2014</b> ,		6
64	WRF-Chem simulation of NO <sub>x</sub> and O <sub>3</sub> in the L.A. basin during CalNex-2010. <i>Atmospheric Environment</i> , <b>2013</b> , 81, 421-432	5.3	27
63	Top-down estimate of surface flux in the Los Angeles Basin using a mesoscale inverse modeling technique: assessing anthropogenic emissions of CO, NO <sub>x</sub> and CO <sub>2</sub> and their impacts. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 3661-3677	6.8	119
62	Inorganic and black carbon aerosols in the Los Angeles Basin during CalNex. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 1777-1803	4.4	13
61	Pollutant transport among California regions. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 6750-6763	4.4	22
60	Biomass burning in Siberia as a source of BrO to the Arctic free troposphere. <i>Atmospheric Environment</i> , <b>2012</b> , 62, 416-423	5.3	6
59	Air quality implications of the Deepwater Horizon oil spill. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 20280-5	11.5	59
58	Observations of inorganic bromine (HOBr, BrO, and Br <sub>2</sub> ) speciation at Barrow, Alaska, in spring 2009. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		58
57	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> , <b>2012</b> , 117, n/a-n/a		84
56	Observations of ozone transport from the free troposphere to the Los Angeles basin. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		33
55	Effects of NO <sub>x</sub> control and plume mixing on nighttime chemical processing of plumes from coal-fired power plants. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		19
54	Evolution of aerosol properties impacting visibility and direct climate forcing in an ammonia-rich urban environment. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		43
53	Ozone and alkyl nitrate formation from the Deepwater Horizon oil spill atmospheric emissions. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		13

52	Ammonia sources in the California South Coast Air Basin and their impact on ammonium nitrate formation. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	97
51	Characterization of soluble bromide measurements and a case study of BrO observations during ARCTAS. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 1327-1338	6.8	22
50	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> , <b>2012</b> , 12, 237-259	6.8	64
49	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> , <b>2012</b> , 12, 9909-9922	6.8	33
48	Analysis of satellite-derived Arctic tropospheric BrO columns in conjunction with aircraft measurements during ARCTAS and ARCPAC. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 1255-1285	6.8	55
47	Nucleation and growth of sulfate aerosol in coal-fired power plant plumes: sensitivity to background aerosol and meteorology. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 189-206	6.8	59
46	Observation and modeling of the evolution of Texas power plant plumes. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 455-468	6.8	29
45	Atmospheric emissions from the Deepwater Horizon spill constrain air-water partitioning, hydrocarbon fate, and leak rate. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	91
44	A comparison of Arctic BrO measurements by chemical ionization mass spectrometry and long path-differential optical absorption spectroscopy. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		93
43	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> , <b>2011</b> , 11, 2423-2453	6.8	217
42	A new interpretation of total column BrO during Arctic spring. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	102
41	Airborne observations of ammonia and ammonium nitrate formation over Houston, Texas. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		80
40	Bromine measurements in ozone depleted air over the Arctic Ocean. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 6503-6514	6.8	86
39	Relationship between photochemical ozone production and NO <sub>x</sub> oxidation in Houston, Texas. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		29
38	A chemical ionization mass spectrometry technique for airborne measurements of ammonia. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		94
37	Reactive nitrogen transport and photochemistry in urban plumes over the North Atlantic Ocean. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		70
36	Analysis of urban gas phase ammonia measurements from the 2002 Atlanta Aerosol Nucleation and Real-Time Characterization Experiment (ANARChE). <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		80
35	An investigation of the chemistry of ship emission plumes during ITCT 2002. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		79

34	A criterion for new particle formation in the sulfur-rich Atlanta atmosphere. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		167
33	CIMS measurements of HNO <sub>3</sub> and SO <sub>2</sub> at the South Pole during ISCAT 2000. <i>Atmospheric Environment</i> , <b>2004</b> , 38, 5411-5421	5.3	84
32	Particle characteristics following cloud-modified transport from Asia to North America. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		80
31	Chemical composition of air masses transported from Asia to the U.S. West Coast during ITCT 2K2: Fossil fuel combustion versus biomass-burning signatures. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		76
30	Gas-phase chemical characteristics of Asian emission plumes observed during ITCT 2K2 over the eastern North Pacific Ocean. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		71
29	Measurement of peroxy-carboxylic nitric anhydrides (PANs) during the ITCT 2K2 aircraft intensive experiment. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		54
28	Ozone production in transpacific Asian pollution plumes and implications for ozone air quality in California. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		170
27	Variability in ammonium nitrate formation and nitric acid depletion with altitude and location over California. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		72
26	Calibration and evaluation of nitric acid and ammonia permeation tubes by UV optical absorption. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 2975-81	10.3	40
25	Chemical ionization mass spectrometry technique for detection of dimethylsulfoxide and ammonia. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ACH 10-1		34
24	Measurements of pernitric acid at the South Pole during ISCAT 2000. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 7-1	4.9	45
23	Airborne observations of DMSO, DMS, and OH at marine tropical latitudes. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 2201-2204	4.9	28
22	Unexpected high levels of NO observed at South Pole. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 3625-3628	4.9	159
21	Relationship between OH measurements on two different NASA aircraft during PEM Tropics B. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 32683-32689		22
20	Measurements of OH aboard the NASA P-3 during PEM-Tropics B. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 32657-32666		30
19	An investigation of South Pole HO <sub>x</sub> chemistry: Comparison of model results with ISCAT observations. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 3633-3636	4.9	54
18	Measurements of OH, H <sub>2</sub> SO <sub>4</sub> , and MSA at the South Pole during ISCAT. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 3629-3632	4.9	88
17	Heterogeneous Interactions of HBr and HOCl with Cold Sulfuric Acid Solutions: Implications for Arctic Boundary Layer Bromine Chemistry. <i>Journal of Physical Chemistry A</i> , <b>1997</b> , 101, 2131-2137	2.8	39

16	Infrared spectroscopy of model tropospheric aerosols as a function of relative humidity: Observation of deliquescence and crystallization. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 18843-18850	178
15	High Temporal Resolution Satellite Observations of Fire Radiative Power Reveal Link Between Fire Behavior and Aerosol and Gas Emissions	3
14	Summary of the High Ice Water Content (HIWC) RADAR Flight Campaigns	4
13	Aerosol Optical Extinction during the Front Range Air Pollution and Photochemistry Experiment (FRAPP) 2014 Summertime Field Campaign, Colorado U.S.A.	2
12	Impacts of the Denver Cyclone on Regional Air Quality and Aerosol Formation in the Colorado Front Range during FRAPP 2014	2
11	Characteristics, sources, and transport of aerosols measured in spring 2008 during the aerosol, radiation, and cloud processes affecting Arctic climate (ARCPAC) project	9
10	Bromine measurements in ozone depleted air over the Arctic Ocean	6
9	Analysis of satellite-derived Arctic tropospheric BrO columns in conjunction with aircraft measurements during ARCTAS and ARCPAC	1
8	Characterization of soluble bromide measurements and a case study of BrO observations during ARCTAS	2
7	Top-down estimate of surface flux in the Los Angeles Basin using a mesoscale inverse modeling technique: assessing anthropogenic emissions of CO, NO <sub>x</sub> and CO <sub>2</sub> and their impacts	3
6	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations	10
5	Modeling regional aerosol variability over California and its sensitivity to emissions and long-range transport during the 2010 CalNex and CARES campaigns	1
4	On the effectiveness of nitrogen oxide reductions as a control over ammonium nitrate aerosol	2
3	The global tropospheric ammonia distribution as seen in the 13 year AIRS measurement record	10
2	Instrumentation and Measurement Strategy for the NOAA SENEX Aircraft Campaign as Part of the Southeast Atmosphere Study 2013	6
1	Seasonal Variability in Local Carbon Dioxide Combustion Sources over the Central and Eastern US using Airborne In-Situ Enhancement Ratios	2