William H Brune

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13,862 67 109 245 h-index g-index citations papers 6.8 5.88 301 15,534 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
245	Effects of aging on organic aerosol from open biomass burning smoke in aircraft and laboratory studies. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 12049-12064	6.8	418
244	Missing OH reactivity in a forest: evidence for unknown reactive biogenic VOCs. <i>Science</i> , 2004 , 304, 722	-5 3.3	384
243	Free Radicals Within the Antarctic Vortex: The Role of CFCs in Antarctic Ozone Loss. <i>Science</i> , 1991 , 251, 39-46	33.3	344
242	Air quality in North America's most populous city Everview of the MCMA-2003 campaign. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 2447-2473	6.8	257
241	OH and HO2 Chemistry in the urban atmosphere of New York City. <i>Atmospheric Environment</i> , 2003 , 37, 3639-3651	5.3	249
240	Laboratory studies of the chemical composition and cloud condensation nuclei (CCN) activity of secondary organic aerosol (SOA) and oxidized primary organic aerosol (OPOA). <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 8913-8928	6.8	247
239	Characterization of aerosol photooxidation flow reactors: heterogeneous oxidation, secondary organic aerosol formation and cloud condensation nuclei activity measurements. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 445-461	4	233
238	Relationship between aerosol oxidation level and hygroscopic properties of laboratory generated secondary organic aerosol (SOA) particles. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	227
237	Airborne measurement of OH reactivity during INTEX-B. Atmospheric Chemistry and Physics, 2009, 9, 163	3 <i>6</i> 183	225
236	Relationship between oxidation level and optical properties of secondary organic aerosol. <i>Environmental Science & Environmental Science & Environment</i>	10.3	222
235	Introducing the concept of Potential Aerosol Mass (PAM). <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 5727-5744	6.8	221
234	Overview of the summer 2004 Intercontinental Chemical Transport Experiment North America (INTEX-A). <i>Journal of Geophysical Research</i> , 2006 , 111,		209
233	Chemistry and transport of pollution over the Gulf of Mexico and the Pacific: spring 2006 INTEX-B campaign overview and first results. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 2301-2318	6.8	206
232	Chemistry of HOx radicals in the upper troposphere. <i>Atmospheric Environment</i> , 2001 , 35, 469-489	5.3	195
231	DOAS measurement of glyoxal as an indicator for fast VOC chemistry in urban air. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	189
230	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	6.8	186
229	Kinetics of O3 destruction by ClO and BrO within the Antarctic vortex: An analysis based on in situ ER-2 data. <i>Journal of Geophysical Research</i> , 1989 , 94, 11480		186

228	Chemistry of hydrogen oxide radicals (HO_x) in the Arctic troposphere in spring. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 5823-5838	6.8	184
227	Atmospheric oxidation in the Mexico City Metropolitan Area (MCMA) during April 2003. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 2753-2765	6.8	183
226	Ozone production rates as a function of NOx abundances and HOx production rates in the Nashville urban plume. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 7-1		178
225	Insights into hydroxyl measurements and atmospheric oxidation in a California forest. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 8009-8020	6.8	175
224	Atmospheric oxidation capacity in the summer of Houston 2006: Comparison with summer measurements in other metropolitan studies. <i>Atmospheric Environment</i> , 2010 , 44, 4107-4115	5.3	168
223	Emissions of black carbon, organic, and inorganic aerosols from biomass burning in North America and Asia in 2008. <i>Journal of Geophysical Research</i> , 2011 , 116,		166
222	Ozone destruction by chlorine radicals within the Antarctic vortex: The spatial and temporal evolution of ClO-O3 anticorrelation based on in situ ER-2 data. <i>Journal of Geophysical Research</i> , 1989 , 94, 11465		153
221	OH and HO2 concentrations, sources, and loss rates during the Southern Oxidants Study in Nashville, Tennessee, summer 1999. <i>Journal of Geophysical Research</i> , 2003 , 108,		152
220	Transitions from functionalization to fragmentation reactions of laboratory secondary organic aerosol (SOA) generated from the OH oxidation of alkane precursors. <i>Environmental Science & Technology</i> , 2012 , 46, 5430-7	10.3	147
219	Photochemistry of HO x in the upper troposphere at northern midlatitudes. <i>Journal of Geophysical Research</i> , 2000 , 105, 3877-3892		145
218	A Laser-induced Fluorescence Instrument for Detecting Tropospheric OH and HO2: Characteristics and Calibration. <i>Journal of Atmospheric Chemistry</i> , 2004 , 47, 139-167	3.2	144
217	HOx chemistry during INTEX-A 2004: Observation, model calculation, and comparison with previous studies. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		142
216	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 1281-1309	6.1	140
215	Formation of Low Volatility Organic Compounds and Secondary Organic Aerosol from Isoprene Hydroxyhydroperoxide Low-NO Oxidation. <i>Environmental Science & Environmental Scienc</i>	10.3	139
214	Effect of oxidant concentration, exposure time, and seed particles on secondary organic aerosol chemical composition and yield. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 3063-3075	6.8	134
213	Behavior of OH and HO2 in the winter atmosphere in New York City. <i>Atmospheric Environment</i> , 2006 , 40, 252-263	5.3	132
212	Atmospheric fates of Criegee intermediates in the ozonolysis of isoprene. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 10241-54	3.6	130
211	Measurement of tropospheric OH and HO2 by laser-induced fluorescence at low pressure. <i>Journal of Geophysical Research</i> , 1994 , 99, 3543		108

210	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	3- 32 8	104
209	Daytime HONO vertical gradients during SHARP 2009 in Houston, TX. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 635-652	6.8	103
208	Large upper tropospheric ozone enhancements above midlatitude North America during summer: In situ evidence from the IONS and MOZAIC ozone measurement network. <i>Journal of Geophysical Research</i> , 2006 , 111,		102
207	Hydroxyl radicals from secondary organic aerosol decomposition in water. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 1761-1771	6.8	101
206	Atmospheric amines and ammonia measured with a chemical ionization mass spectrometer (CIMS). <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 12181-12194	6.8	99
205	Total OH Loss Rate Measurement. <i>Journal of Atmospheric Chemistry</i> , 2001 , 39, 105-122	3.2	99
204	In situ observations of ClO in the Arctic stratosphere: ER-2 aircraft results from 59th TO 80th latitude. <i>Geophysical Research Letters</i> , 1990 , 17, 505-508	4.9	99
203	In situ secondary organic aerosol formation from ambient pine forest air using an oxidation flow reactor. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 2943-2970	6.8	98
202	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	6.8	97
201	Ultraviolet and visible complex refractive indices of secondary organic material produced by photooxidation of the aromatic compounds toluene and <i>m</i>-xylene. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 1435-1446	6.8	94
200	HO_x radical chemistry in oxidation flow reactors with low-pressure mercury lamps systematically examined by modeling. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 4863-4890	4	93
199	Impacts of Combustion Conditions and Photochemical Processing on the Light Absorption of Biomass Combustion Aerosol. <i>Environmental Science & Environmental Science & Environm</i>	10.3	92
198	Non-OH chemistry in oxidation flow reactors for the study of atmospheric chemistry systematically examined by modeling. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 4283-4305	6.8	90
197	Inter-comparison of laboratory smog chamber and flow reactor systems on organic aerosol yield and composition. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 2315-2332	4	90
196	Dependence of SOA oxidation on organic aerosol mass concentration and OH exposure: experimental PAM chamber studies. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 1837-1852	6.8	90
195	The potential for ozone depletion in the arctic polar stratosphere. <i>Science</i> , 1991 , 252, 1260-6	33.3	90
194	Sources of HOx and production of ozone in the upper troposphere over the United States. <i>Geophysical Research Letters</i> , 1998 , 25, 1709-1712	4.9	88
193	Airborne in-situ OH and HO2 observations in the cloud-free troposphere and lower stratosphere during SUCCESS. <i>Geophysical Research Letters</i> . 1998 , 25, 1701-1704	4.9	88

(2006-2003)

192	Direct measurements of urban OH reactivity during Nashville SOS in summer 1999. <i>Journal of Environmental Monitoring</i> , 2003 , 5, 68-74		87
191	In situ observations of ClO in the Antarctic: ER-2 aircraft results from 54°LS to 72°LS latitude. <i>Journal of Geophysical Research</i> , 1989 , 94, 16649		82
190	Isoprene and its oxidation products, methacrolein and methylvinyl ketone, at an urban forested site during the 1999 Southern Oxidants Study. <i>Journal of Geophysical Research</i> , 2001 , 106, 8035-8046		81
189	Airborne observations of total RONO₂: new constraints on the yield and lifetime of isoprene nitrates. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1451-1463	6.8	80
188	OH, HO2, and OH reactivity during the PMTACSNY Whiteface Mountain 2002 campaign: Observations and model comparison. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		79
187	Oxygenated volatile organic chemicals in the oceans: Inferences and implications based on atmospheric observations and air-sea exchange models. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	77
186	Deep convection as a source of new particles in the midlatitude upper troposphere. <i>Journal of Geophysical Research</i> , 2002 , 107, AAC 6-1-AAC 6-10		77
185	HO2/OH and RO2/HO2 ratios during the Tropospheric OH Photochemistry Experiment: Measurement and theory. <i>Journal of Geophysical Research</i> , 1997 , 102, 6379-6391		76
184	Laser magnetic resonance, resonance fluorescence, resonance absorption studies of the reaction kinetics of atomic oxygen + hydroxyl .fwdarw. atomic hydrogen + molecular oxygen, atomic oxygen + perhydroxyl .fwdarw. hydroxyl + molecular oxygen, atomic nitrogen + hydroxyl .fwdarw. atomic		75
183	hydrogen + nitric oxide, atomic nitrogen + perhydroxyl .fwdarw. products at 300 K between 1 and 5 In situ observations of BrO over Antarctica: ER-2 aircraft results From 54LS to 72LS latitude. <i>Journal of Geophysical Research</i> , 1989 , 94, 16639		72
182	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	6.8	71
181	Characterization of Wintertime Reactive Oxygen Species Concentrations in Flushing, New York. <i>Aerosol Science and Technology</i> , 2007 , 41, 97-111	3.4	70
180	Influence of lateral and top boundary conditions on regional air quality prediction: A multiscale study coupling regional and global chemical transport models. <i>Journal of Geophysical Research</i> , 2007 , 112,		68
179	Atmospheric oxidation chemistry and ozone production: Results from SHARP 2009 in Houston, Texas. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5770-5780	4.4	67
178	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	6.8	67
177	Kinetic and mechanistic investigations of fluorine atom + water/water-d2 and fluorine atom + hydrogen/deuterium over the temperature range 240-373 K. <i>The Journal of Physical Chemistry</i> , 1989 , 93, 4068-4079		67
176	In situ measurements of BrO in the Arctic stratosphere. <i>Geophysical Research Letters</i> , 1990 , 17, 513-516	4.9	64
175	A reevaluation of airborne HOx observations from NASA field campaigns. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		63

174	Observations of HO x and its relationship with NO x in the upper troposphere during SONEX. <i>Journal of Geophysical Research</i> , 2000 , 105, 3771-3783		63
173	OH and HO2 chemistry in the North Atlantic free troposphere. <i>Geophysical Research Letters</i> , 1999 , 26, 3077-3080	4.9	63
172	Observation of isoprene hydroxynitrates in the southeastern United States and implications for the fate of NO_{<i>x</i>}. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 112	:57-112	72 ²
171	On the temperature dependence of organic reactivity, nitrogen oxides, ozone production, and the impact of emission controls in San Joaquin Valley, California. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 3373-3395	6.8	61
170	OH and HO2 measurements using laser-induced fluorescence. <i>Journal of Geophysical Research</i> , 1997 , 102, 6427-6436		61
169	Peroxy radicals from photostationary state deviations and steady state calculations during the Tropospheric OH Photochemistry Experiment at Idaho Hill, Colorado, 1993. <i>Journal of Geophysical Research</i> , 1997 , 102, 6369-6378		61
168	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	11.5	61
167	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	6.8	60
166	Measurement of HO2NO2 in the free troposphere during the Intercontinental Chemical Transport Experiment Morth America 2004. <i>Journal of Geophysical Research</i> , 2007 , 112,		60
165	Seasonal differences in the photochemistry of the South Pacific: A comparison of observations and model results from PEM-Tropics A and B. <i>Journal of Geophysical Research</i> , 2001 , 106, 32749-32766		59
164	Kinetics of mercapto (SH) with nitrogen dioxide, ozone, molecular oxygen, and hydrogen peroxide. <i>The Journal of Physical Chemistry</i> , 1985 , 89, 5505-5510		59
163	Time-resolved characterization of primary particle emissions and secondary particle formation from a modern gasoline passenger car. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 8559-8570	6.8	58
162	Observations of total RONO₂ over the boreal forest: NO_x sinks and HNO₃ sources. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 4543-4562	6.8	57
161	Deciphering the role of radical precursors during the Second Texas Air Quality Study. <i>Journal of the Air and Waste Management Association</i> , 2009 , 59, 1258-77	2.4	57
160	Measuring OH and HO2in the Troposphere by Laser-Induced Fluorescence at Low Pressure. Journals of the Atmospheric Sciences, 1995 , 52, 3328-3336	2.1	57
159	Exposure of Lung Epithelial Cells to Photochemically Aged Secondary Organic Aerosol Shows Increased Toxic Effects. <i>Environmental Science and Technology Letters</i> , 2018 , 5, 424-430	11	55
158	Evidence for a nitrous acid (HONO) reservoir at the ground surface in Bakersfield, CA, during CalNex 2010. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 9093-9106	4.4	54
157	A comparison of chemical mechanisms based on TRAMP-2006 field data. <i>Atmospheric Environment</i> , 2010 , 44, 4116-4125	5.3	54

(2011-2017)

156	Comparison of OH reactivity measurements in the atmospheric simulation chamber SAPHIR. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 4023-4053	4	52	
155	Hydroxyl and Peroxy Radical Chemistry in a Rural Area of Central Pennsylvania: Observations and Model Comparisons. <i>Journal of Atmospheric Chemistry</i> , 2005 , 52, 231-257	3.2	51	
154	Overview of the Focused Isoprene eXperiment at the California Institute of Technology (FIXCIT): mechanistic chamber studies on the oxidation of biogenic compounds. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 13531-13549	6.8	50	
153	Testing fast photochemical theory during TRACE-P based on measurements of OH, HO2, and CH2O. Journal of Geophysical Research, 2004 , 109,		50	
152	The lifetime of nitrogen oxides in an isoprene-dominated forest. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 7623-7637	6.8	49	
151	Interference Testing for Atmospheric HOx Measurements by Laser-induced Fluorescence. <i>Journal of Atmospheric Chemistry</i> , 2004 , 47, 169-190	3.2	49	
150	Calculations of ozone destruction during the 1988/89 Arctic winter. <i>Geophysical Research Letters</i> , 1990 , 17, 553-556	4.9	48	
149	Speciation of OH reactivity above the canopy of an isoprene-dominated forest. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 9349-9359	6.8	47	
148	On the flux of oxygenated volatile organic compounds from organic aerosol oxidation. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	47	
147	In situ observations of midlatitude stratospheric ClO and BrO. <i>Geophysical Research Letters</i> , 1986 , 13, 1391-1394	4.9	45	
146	Observations of elevated formaldehyde over a forest canopy suggest missing sources from rapid oxidation of arboreal hydrocarbons. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 8761-8781	6.8	44	
145	Constraints on Aerosol Nitrate Photolysis as a Potential Source of HONO and NO. <i>Environmental Science & Environmental Science</i>	10.3	43	
144	Reactive Oxygen Species Formed by Secondary Organic Aerosols in Water and Surrogate Lung Fluid. <i>Environmental Science & Environmental Science & Envir</i>	10.3	43	
143	Large-scale ozone and aerosol distributions, air mass characteristics, and ozone fluxes over the western Pacific Ocean in late winter/early spring. <i>Journal of Geophysical Research</i> , 2003 , 108,		42	
142	Ozone production in the upper troposphere and the influence of aircraft during SONEX: approach of NOx-saturated conditions. <i>Geophysical Research Letters</i> , 1999 , 26, 3081-3084	4.9	42	
141	Testing Atmospheric Oxidation in an Alabama Forest. <i>Journals of the Atmospheric Sciences</i> , 2016 , 73, 4699-4710	2.1	42	
140	Large-scale air mass characteristics observed over the remote tropical Pacific Ocean during March-April 1999: Results from PEM-Tropics B field experiment. <i>Journal of Geophysical Research</i> , 2001 , 106, 32481-32501		41	
139	Photochemical modeling of glyoxal at a rural site: observations and analysis from BEARPEX 2007. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 8883-8897	6.8	39	

138	Peroxy radical behavior during the Transport and Chemical Evolution over the Pacific (TRACE-P) campaign as measured aboard the NASA P-3B aircraft. <i>Journal of Geophysical Research</i> , 2003 , 108,		39	
137	Nighttime isoprene trends at an urban forested site during the 1999 Southern Oxidant Study. Journal of Geophysical Research, 2002 , 107, ACH 7-1		39	
136	Influence of fuel ethanol content on primary emissions and secondary aerosol formation potential for a modern flex-fuel gasoline vehicle. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 5311-5329	6.8	38	
135	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	6.8	37	
134	A regional scale modeling analysis of aerosol and trace gas distributions over the eastern Pacific during the INTEX-B field campaign. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 2091-2115	6.8	37	
133	Experimental evidence for the importance of convected methylhydroperoxide as a source of hydrogen oxide (HOx) radicals in the tropical upper troposphere. <i>Journal of Geophysical Research</i> , 2001 , 106, 32709-32716		37	
132	In Situ Northern Mid-Latitude Observations of ClO, O3, and BrO in the Wintertime Lower Stratosphere. <i>Science</i> , 1988 , 242, 558-62	33.3	37	
131	Ozone production chemistry in the presence of urban plumes. <i>Faraday Discussions</i> , 2016 , 189, 169-89	3.6	37	
130	Anthropogenic Sulfur Perturbations on Biogenic Oxidation: SO2 Additions Impact Gas-Phase OH Oxidation Products of \exists and \boxdot nene. <i>Environmental Science & Technology, 2016</i> , 50, 1269-79	10.3	36	
129	Laboratory studies on secondary organic aerosol formation from crude oil vapors. <i>Environmental Science & Environmental Scienc</i>	10.3	36	
128	Reactive oxygen species formed in aqueous mixtures of secondary organic aerosols and mineral dust influencing cloud chemistry and public health in the Anthropocene. <i>Faraday Discussions</i> , 2017 , 200, 251-270	3.6	35	
127	Controlled nitric oxide production via O(¹D) + N₂O reactions for use in oxidation flow reactor studies. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 228	3 ⁴ 2298	₃ 35	
126	Factors controlling tropospheric O3, OH, NO x and SO2 over the tropical Pacific during PEM-Tropics B. <i>Journal of Geophysical Research</i> , 2001 , 106, 32733-32747		35	
125	Kinetics and mechanism of $X + ClNO$.fwdarw. $XCl + NO$ ($X = Cl, F, Br, OH, O, N$) from 220 K to 450 K. Correlation of reactivity and activation energy with electron affinity of X . The Journal of Physical Chemistry, 1989 , 93, 1022-1029		35	
124	Balloon-borne in situ measurements of CLO and ozone: Implications for heterogeneous chemistry and mid-latitude ozone loss. <i>Geophysical Research Letters</i> , 1993 , 20, 1795-1798	4.9	34	
123	Secondary organic aerosol from VOC mixtures in an oxidation flow reactor. <i>Atmospheric Environment</i> , 2017 , 161, 210-220	5-3	33	
122	Effects of temperature-dependent NO_{<i>x</i>} emissions on continental ozone production. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 2601-2614	6.8	33	
121	In situ measurements of midlatitude ClO in winter. <i>Geophysical Research Letters</i> , 1991 , 18, 21-24	4.9	33	

120	Detailed comparisons of airborne formaldehyde measurements with box models during the 2006 INTEX-B and MILAGRO campaigns: potential evidence for significant impacts of unmeasured and multi-generation volatile organic carbon compounds. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 118	6.8 3 67-118	32 94	
119	Southeast Atmosphere Studies: learning from model-observation syntheses. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 2615-2651	6.8	31	
118	Role of convection in redistributing formaldehyde to the upper troposphere over North America and the North Atlantic during the summer 2004 INTEX campaign. <i>Journal of Geophysical Research</i> , 2008 , 113,		31	
117	Preface [to special section on Photochemistry of Ozone Loss in the Arctic Region in Summer (POLARIS)]. <i>Journal of Geophysical Research</i> , 1999 , 104, 26481-26495		31	
116	Urban measurements of atmospheric nitrous acid: A caveat on the interpretation of the HONO photostationary state. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 12,274-12,281	4.4	30	
115	Measurement of Ozone Production Sensor. Atmospheric Measurement Techniques, 2010 , 3, 545-555	4	30	
114	Direct measurement of ozone production rates in Houston in 2009 and comparison with two estimation methods. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1203-1212	6.8	29	
113	Summertime buildup and decay of lightning NOx and aged thunderstorm outflow above North America. <i>Journal of Geophysical Research</i> , 2009 , 114,		29	
112	Intercomparison of peroxy radical measurements at a rural site using laser-induced fluorescence and Peroxy Radical Chemical Ionization Mass Spectrometer (PerCIMS) techniques. <i>Journal of Geophysical Research</i> , 2003 , 108,		29	
111	Performance evaluation of an air quality forecast modeling system for a summer and winter season Photochemical oxidants and their precursors. <i>Atmospheric Environment</i> , 2008 , 42, 8585-8599	5.3	28	
110	Isoprene suppression of new particle formation: Potential mechanisms and implications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 14,621	4.4	26	
109	Loss of isoprene and sources of nighttime OH radicals at a rural site in the United States: Results from photochemical models. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 2-1-ACH 2-14		25	
108	Kinetics and mechanism of the hydroxyl + hydroperoxo reaction. <i>The Journal of Physical Chemistry</i> , 1989 , 93, 1030-1035		25	
107	A laser induced fluorescence instrument for measuring tropospheric NO2. <i>Review of Scientific Instruments</i> , 1997 , 68, 4253-4262	1.7	24	
106	Measuring atmospheric naphthalene with laser-induced fluorescence. <i>Atmospheric Chemistry and Physics</i> , 2004 , 4, 563-569	6.8	24	
105	An Atmospheric Constraint on the NO2 Dependence of Daytime Near-Surface Nitrous Acid (HONO). <i>Environmental Science & Environmental Science & Environm</i>	10.3	23	
104	Model Evaluation of New Techniques for Maintaining High-NO Conditions in Oxidation Flow Reactors for the Study of OH-Initiated Atmospheric Chemistry. <i>ACS Earth and Space Chemistry</i> , 2018 , 2, 72-86	3.2	23	
103	Airborne intercomparison of HO_x measurements using laser-induced fluorescence and chemical ionization mass spectrometry during ARCTAS. <i>Atmospheric Measurement Techniques</i> 2012 , 5, 2025-2037	4	23	

102	Heterogeneous chemistry on liquid sulfate aerosols: A comparison of in situ measurements with zero-dimensional model calculations. <i>Geophysical Research Letters</i> , 1990 , 17, 1283-1286	4.9	23
101	Primary and Secondary Sources of Gas-Phase Organic Acids from Diesel Exhaust. <i>Environmental Science & Environmental &</i>	10.3	22
100	Evaluation of simulated O3 production efficiency during the KORUS-AQ campaign: Implications for anthropogenic NOx emissions in Korea. <i>Elementa</i> , 2019 , 7,	3.6	22
99	Bulk and molecular-level characterization of laboratory-aged biomass burning organic aerosol from oak leaf and heartwood fuels. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 2199-2224	6.8	21
98	Global sensitivity analysis of ozone production and O3NOxNOC limitation based on field data. <i>Atmospheric Environment</i> , 2012 , 55, 288-296	5.3	21
97	Modeling organic aerosol from the oxidation of pinene in a Potential Aerosol Mass (PAM) chamber. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 5017-5031	6.8	21
96	Measurements of ClO and O3 from 21th to 61th in the lower stratosphere during February 1988: Implications for heterogeneous chemistry. <i>Geophysical Research Letters</i> , 1991 , 18, 2273-2276	4.9	21
95	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	4.4	20
94	Observational Constraints on the Oxidation of NOx in the Upper Troposphere. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 1468-78	2.8	20
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92	Effects of aging on organic aerosol from open biomass burning smoke in aircraft and lab studies		20
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25	Overview of the Focused Isoprene eXperiments at California Institute of Technology (FIXCIT): mechanistic chamber studies on the oxidation of biogenic compounds	2
24	Airborne observations of total RONO ₂ : new constraints on the yield and lifetime of isoprene nitrates	2
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14	Observations of elevated formaldehyde over a forest canopy suggest missing sources from rapid oxidation of arboreal hydrocarbons	1
13	Detailed comparisons of airborne formaldehyde measurements with box models during the 2006 INTEX-B campaign: potential evidence for unmeasured and multi-generation volatile organic carbon oxidation processing	1

LIST OF PUBLICATIONS

12	On the temperature dependence of organic reactivity, nitrogen oxides, ozone production, and the impact of emission controls in San Joaquin Valley California		1
11	Comparison of secondary organic aerosol formed with an aerosol flow reactor and environmental reaction chambers: effect of oxidant concentration, exposure time and seed particles on chemical composition and yield		1
10	Observation of isoprene hydroxynitrates in the Southeastern United States and implications for the fate of NO _{<i>x</i>}		1
9	Understanding isoprene photo-oxidation using observations and modelling over a subtropical forest in the Southeast US		1
8	Trans-Pacific transport and evolution of aerosols and trace gases from Asia during the INTEX-B field cam	ıpaig	N 1
7	Measurement of ozone production sensor		1
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