

# Armin Wisthaler

## List of Publications by Year in descending order

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171  
papers

10,933  
citations

23219

57  
h-index

38855

93  
g-index

209  
all docs

209  
docs citations

209  
times ranked

9568  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.9	539
2	Co-designing electronics with microfluidics for more sustainable cooling. <i>Nature</i> , 2020, 585, 211-216.	35.8	532
3	The Molecular Identification of Organic Compounds in the Atmosphere: State of the Art and Challenges. <i>Chemical Reviews</i> , 2015, 115, 3919-3983.	50.5	437
4	Reactions of ozone with human skin lipids: Sources of carbonyls, dicarbonyls, and hydroxycarbonyls in indoor air. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6568-6575.	7.5	358
5	Nitrogen oxides and PAN in plumes from boreal fires during ARCTAS-B and their impact on ozone: an integrated analysis of aircraft and satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9739-9760.	4.9	241
6	Boreal forest fire emissions in fresh Canadian smoke plumes: C <sub>10</sub> volatile organic compounds (VOCs), CO <sub>2</sub> , CO, NO <sub>2</sub> , NO, HCN and CH <sub>3</sub> CN. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 6445-6463.	4.9	214
7	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, .	3.2	209
8	On-Line Monitoring of Microbial Volatile Metabolites by Proton Transfer Reaction-Mass Spectrometry. <i>Applied and Environmental Microbiology</i> , 2008, 74, 2179-2186.	3.2	206
9	Eddy covariance flux measurements of biogenic VOCs during ECHO 2003 using proton transfer reaction mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 465-481.	4.9	204
10	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.	3.3	196
11	Characterization of a real-time tracer for isoprene epoxydiols-derived secondary organic aerosol (IEPOX-SOA) from aerosol mass spectrometer measurements. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11807-11833.	4.9	189
12	Organic nitrate chemistry and its implications for nitrogen budgets in an isoprene- and monoterpene-rich atmosphere: constraints from aircraft (SEAC <sub>4</sub> RS) and ground-based (SOAS) observations in the Southeast US. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5969-5991.	4.9	182
13	Ozone induced emissions of biogenic VOC from tobacco: relationships between ozone uptake and emission of LOX products. <i>Plant, Cell and Environment</i> , 2005, 28, 1334-1343.	6.0	166
14	Ozone-Initiated Chemistry in an Occupied Simulated Aircraft Cabin. <i>Environmental Science &amp; Technology</i> , 2007, 41, 6177-6184.	10.3	160
15	Products of Ozone-Initiated Chemistry in a Simulated Aircraft Environment. <i>Environmental Science &amp; Technology</i> , 2005, 39, 4823-4832.	10.3	146
16	Contribution of Different Carbon Sources to Isoprene Biosynthesis in Poplar Leaves. <i>Plant Physiology</i> , 2004, 135, 152-160.	5.0	136
17	Brown carbon in the continental troposphere. <i>Geophysical Research Letters</i> , 2014, 41, 2191-2195.	3.9	117
18	The North Atlantic Aerosol and Marine Ecosystem Study (NAAMES): Science Motive and Mission Overview. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	117

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19	Substantial Seasonal Contribution of Observed Biogenic Sulfate Particles to Cloud Condensation Nuclei. <i>Scientific Reports</i> , 2018, 8, 3235.	3.4	113
20	Seasonal variation of the transport of black carbon aerosol from the Asian continent to the Arctic during the ARCTAS aircraft campaign. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.2	108
21	Comparison of chemical characteristics of 495 biomass burning plumes intercepted by the NASA DC-8 aircraft during the ARCTAS/CARB-2008 field campaign. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 13325-13337.	4.9	108
22	A new software tool for the analysis of high resolution PTR-TOF mass spectra. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2013, 127, 158-165.	3.6	106
23	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.	3.9	104
24	Technical Note: Intercomparison of formaldehyde measurements at the atmosphere simulation chamber SAPHIR. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2189-2200.	4.9	102
25	Measurements of acetone and other gas phase product yields from the OH-initiated oxidation of terpenes by proton-transfer-reaction mass spectrometry (PTR-MS). <i>Atmospheric Environment</i> , 2001, 35, 6181-6191.	4.2	101
26	A compact PTR-ToF-MS instrument for airborne measurements of volatile organic compounds at high spatiotemporal resolution. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3763-3772.	3.1	100
27	Airborne measurements of organosulfates over the continental U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2990-3005.	3.3	98
28	Agricultural fires in the southeastern U.S. during SEAC <sup>4</sup> 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.	3.3	98
29	New insights into the column CH <sub>2</sub> O/NO <sub>2</sub> ratio as an indicator of near-surface ozone sensitivity. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 8885-8907.	3.3	98
30	Brown carbon aerosol in the North American continental troposphere: sources, abundance, and radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7841-7858.	4.9	97
31	Interactions of fire emissions and urban pollution over California: Ozone formation and air quality simulations. <i>Atmospheric Environment</i> , 2012, 56, 45-51.	4.2	96
32	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	96
33	Geographical origin classification of olive oils by PTR-MS. <i>Food Chemistry</i> , 2008, 108, 374-383.	8.3	94
34	A product study of the isoprene+NO <sub>2</sub> reaction. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 4945-4956.	4.9	94
35	Biogenic emission measurement and inventories determination of biogenic emissions in the eastern United States and Texas and comparison with biogenic emission inventories. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.2	94
36	Characterizing summertime chemical boundary conditions for airmasses entering the US West Coast. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1769-1790.	4.9	92

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37	Upper tropospheric ozone production from lightning NO <sub>x</sub> impacted convection: Smoke ingestion case study from the DC3 campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2505-2523.	3.3	92
38	Organic trace gas measurements by PTR-MS during INDOEX 1999. <i>Journal of Geophysical Research</i> , 2002, 107, INX2 23-1.	3.2	91
39	Xylem transported glucose as an additional carbon source for leaf isoprene formation in <i>Quercus robur</i> . <i>New Phytologist</i> , 2002, 156, 171-178.	7.8	88
40	In situ measurements and modeling of reactive trace gases in a small biomass burning plume. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3813-3824.	4.9	85
41	Observations of nonmethane organic compounds during ARCTAS '07 Part 1: Biomass burning emissions and plume enhancements. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11103-11130.	4.9	83
42	CO source contribution analysis for California during ARCTAS-CARB. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7515-7532.	4.9	82
43	Transient Release of Oxygenated Volatile Organic Compounds during Light-Dark Transitions in Grey Poplar Leaves. <i>Plant Physiology</i> , 2004, 135, 1967-1975.	5.0	80
44	Observations of total RONO <sub>2</sub> over the boreal forest: NO <sub>x</sub> sinks and HNO <sub>3</sub> sources. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4543-4562.	4.9	78
45	Emission characteristics of black carbon in anthropogenic and biomass burning plumes over California during ARCTAS-CARB 2008. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.2	76
46	Effect of Transcatheter Aortic Valve Implantation vs Surgical Aortic Valve Replacement on All-Cause Mortality in Patients With Aortic Stenosis. <i>JAMA - Journal of the American Medical Association</i> , 2022, 327, 1875.	7.0	75
47	Intercomparison of ammonia measurement techniques at an intensively managed grassland site (Oensingen, Switzerland). <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 2635-2645.	4.9	74
48	Absorbing aerosol in the troposphere of the Western Arctic during the 2008 ARCTAS/ARCPAC airborne field campaigns. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7561-7582.	4.9	72
49	Atmospheric benzene observations from oil and gas production in the Denver-Julesburg Basin in July and August 2014. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,055.	3.3	72
50	Chemical kinetics of multiphase reactions between ozone and human skin lipids: Implications for indoor air quality and health effects. <i>Indoor Air</i> , 2017, 27, 816-828.	4.4	71
51	A method for real-time detection of PAN, PPN and MPAN in ambient air. <i>Geophysical Research Letters</i> , 2000, 27, 895-898.	3.9	70
52	Characterization of wine with PTR-MS. <i>International Journal of Mass Spectrometry</i> , 2004, 239, 215-219.	1.5	70
53	O <sub>2</sub> <sup>+</sup> as reagent ion in the PTR-MS instrument: Detection of gas-phase ammonia. <i>International Journal of Mass Spectrometry</i> , 2007, 265, 382-387.	1.5	70
54	Airborne characterization of subsaturated aerosol hygroscopicity and dry refractive index from the surface to 6.5 km during the SEAC <sup>4</sup> RS campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 4188-4210.	3.3	69

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55	Source attributions of pollution to the Western Arctic during the NASA ARCTAS field campaign. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4707-4721.	4.9	67
56	High-resolution inversion of OMI formaldehyde columns to quantify isoprene emission on ecosystem-relevant scales: application to the southeast US. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 5483-5497.	4.9	67
57	Atmospheric chemistry of 2-aminoethanol (MEA). <i>Energy Procedia</i> , 2011, 4, 2245-2252.	1.8	66
58	A novel inlet system for online chemical analysis of semi-volatile submicron particulate matter. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1353-1360.	3.1	65
59	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6721-6744.	4.9	64
60	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.	4.9	61
61	Proton-transfer-reaction mass spectrometry (PTR-MS): on-line monitoring of volatile organic compounds at volume mixing ratios of a few pptv. <i>Plasma Sources Science and Technology</i> , 1999, 8, 332-336.	3.2	59
62	Patterns of CO <sub>2</sub> and radiocarbon across high northern latitudes during International Polar Year 2008. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.2	59
63	Aerosol transport and wet scavenging in deep convective clouds: A case study and model evaluation using a multiple passive tracer analysis approach. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 8448-8468.	3.3	58
64	Evaluation of 1,3,5 trimethylbenzene degradation in the detailed tropospheric chemistry mechanism, MCMv3.1, using environmental chamber data. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6453-6468.	4.9	57
65	Satellite isoprene retrievals constrain emissions and atmospheric oxidation. <i>Nature</i> , 2020, 585, 225-233.	35.8	57
66	Ozone chemistry in western U.S. wildfire plumes. <i>Science Advances</i> , 2021, 7, eabl3648.	10.8	57
67	Quantifying sources and sinks of reactive gases in the lower atmosphere using airborne flux observations. <i>Geophysical Research Letters</i> , 2015, 42, 8231-8240.	3.9	54
68	Proton-transfer-reaction mass spectrometry (PTR-MS) of carboxylic acids. <i>International Journal of Mass Spectrometry</i> , 2004, 239, 243-248.	1.5	53
69	PTR-MS Assessment of Photocatalytic and Sorption-Based Purification of Recirculated Cabin Air during Simulated 7-h Flights with High Passenger Density. <i>Environmental Science &amp; Technology</i> , 2007, 41, 229-234.	10.3	53
70	Study of OH-initiated degradation of 2-aminoethanol. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1881-1901.	4.9	53
71	Global and regional effects of the photochemistry of CH <sub>3</sub> O <sub>2</sub> /NO <sub>2</sub> evidence from ARCTAS. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4209-4219.		
72	In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC <sub>4RS</sub> : observations of a modest aerosol enhancement aloft. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7085-7102.	4.9	52

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73	Impact of Alternative Jet Fuels on Engine Exhaust Composition During the 2015 ECLIF Ground-Based Measurements Campaign. <i>Environmental Science &amp; Technology</i> , 2018, 52, 4969-4978.	10.3	52
74	Time-Resolved Intermediate-Volatility and Semivolatile Organic Compound Emissions from Household Coal Combustion in Northern China. <i>Environmental Science &amp; Technology</i> , 2019, 53, 9269-9278.	10.3	50
75	Comprehensive isoprene and terpene gas-phase chemistry improves simulated surface ozone in the southeastern US. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3739-3776.	4.9	49
76	Characterization, sources and reactivity of volatile organic compounds (VOCs) in Seoul and surrounding regions during KORUS-AQ. <i>Elementa</i> , 2020, 8, .	3.2	48
77	Emission Results of Amine Plant Operations from MEA Testing at the CO2 Technology Centre Mongstad. <i>Energy Procedia</i> , 2014, 63, 6023-6038.	1.8	46
78	Emissions of C <sub>6</sub> -C <sub>8</sub> 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	46
79	Development of a Proton-Transfer Reaction-Linear Ion Trap Mass Spectrometer for Quantitative Determination of Volatile Organic Compounds. <i>Analytical Chemistry</i> , 2008, 80, 8171-8177.	6.7	44
80	Degradation and Emission Results of Amine Plant Operations from MEA Testing at the CO2 Technology Centre Mongstad. <i>Energy Procedia</i> , 2017, 114, 1245-1262.	1.8	44
81	Airborne observations of bioaerosol over the Southeast United States using a Wideband Integrated Bioaerosol Sensor. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 8506-8524.	3.3	43
82	Desiccant wheels as gas-phase absorption (GPA) air cleaners: evaluation by PTR-MS and sensory assessment. <i>Indoor Air</i> , 2008, 18, 375-385.	4.4	42
83	Spectral absorption of biomass burning aerosol determined from retrieved single scattering albedo during ARCTAS. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10505-10518.	4.9	41
84	Analysis of high mass resolution PTR-TOF mass spectra from 1,3,5-trimethylbenzene (TMB) environmental chamber experiments. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 829-843.	4.9	40
85	An analysis of fast photochemistry over high northern latitudes during spring and summer using in-situ observations from ARCTAS and TOPSE. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6799-6825.	4.9	40
86	Large vertical gradient of reactive nitrogen oxides in the boundary layer: Modeling analysis of DISCOVER-AQ 2011 observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 1922-1934.	3.3	40
87	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.	4.9	40
88	Evaluation of simulated O <sub>3</sub> production efficiency during the KORUS-AQ campaign: Implications for anthropogenic NO <sub>x</sub> emissions in Korea. <i>Elementa</i> , 2019, 7, .	3.2	39
89	Disjunct eddy covariance measurements of monoterpene fluxes from a Norway spruce forest using PTR-MS. <i>International Journal of Mass Spectrometry</i> , 2004, 239, 111-115.	1.5	38
90	Direct Sampling and Analysis of Atmospheric Particulate Organic Matter by Proton-Transfer-Reaction Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 10889-10897.	6.7	38



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91	A multimethodological approach to study the spatial distribution of air pollution in an Alpine valley during wintertime. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3385-3396.	4.9	36
92	Lubricating Oil as a Major Constituent of Ship Exhaust Particles. <i>Environmental Science and Technology Letters</i> , 2017, 4, 54-58.	8.7	36
93	The reactions of N-methylformamide and N,N-dimethylformamide with OH and their photo-oxidation under atmospheric conditions: experimental and theoretical studies. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 7046-7059.	2.9	35
94	Impact of the deep convection of isoprene and other reactive trace species on radicals and ozone in the upper troposphere. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1135-1150.	4.9	34
95	Is there an aerosol signature of chemical cloud processing?. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16099-16119.	4.9	34
96	An inversion of NO <sub>x</sub> and non-methane volatile organic compound (NMVOC) emissions using satellite observations during the KORUS-AQ campaign and implications for surface ozone over East Asia. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 9837-9854.	4.9	34
97	New Perspectives on CO <sub>2</sub> , Temperature, and Light Effects on BVOC Emissions Using Online Measurements by PTR-MS and Cavity Ring-Down Spectroscopy. <i>Environmental Science &amp; Technology</i> , 2018, 52, 13811-13823.	10.3	33
98	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	33
99	Observation-based modeling of ozone chemistry in the Seoul metropolitan area during the Korea-United States Air Quality Study (KORUS-AQ). <i>Elementa</i> , 2020, 8, .	3.2	33
100	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> , 2015, 120, 5140-5154.	3.3	32
101	Convective transport of formaldehyde to the upper troposphere and lower stratosphere and associated scavenging in thunderstorms over the central United States during the 2012 DC3 study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7430-7460.	3.3	30
102	Validation of IASI Satellite Ammonia Observations at the Pixel Scale Using In Situ Vertical Profiles. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033475.	3.3	29
103	Evaluating the Impact of Chemical Complexity and Horizontal Resolution on Tropospheric Ozone Over the Conterminous US With a Global Variable Resolution Chemistry Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.7	29
104	Ambient observations of hygroscopic growth factor and $\kappa$ (RH) below 1: Case studies from surface and airborne measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 661-677.	3.3	28
105	Airborne quantification of upper tropospheric NO <sub>x</sub> 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.	3.3	28
106	Atmospheric Chemistry of C <sub>3</sub> ~C <sub>6</sub> Cycloalkanecarbaldehydes. <i>Journal of Physical Chemistry A</i> , 2005, 109, 5104-5118.	2.6	27
107	Simulating reactive nitrogen, carbon monoxide, and ozone in California during ARCTAS-CARB 2008 with high wildfire activity. <i>Atmospheric Environment</i> , 2016, 128, 28-44.	4.2	27
108	Experimental and Theoretical Study of the OH-Initiated Photo-oxidation of Formamide. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1222-1230.	2.6	27

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109	In situ measurements of water uptake by black carbon-containing aerosol in wildfire plumes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1086-1097.	3.3	26
110	A novel method for producing NH <sub>4</sub> <sup>+</sup> reagent ions in the hollow cathode glow discharge ion source of PTR-MS instruments. <i>International Journal of Mass Spectrometry</i> , 2020, 447, 116254.	1.5	26
111	Revisiting Acetonitrile as Tracer of Biomass Burning in Anthropogenic-Influenced Environments. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092322.	3.9	25
112	Observational Constraints on the Oxidation of NO <sub>x</sub> in the Upper Troposphere. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1468-1478.	2.6	24
113	Using Observations and Source-Specific Model Tracers to Characterize Pollutant Transport During FRAPP <sub>2016</sub> and DISCOVER <sub>2015</sub> . <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 10510-10538.	3.3	24
114	Estimating Source Region Influences on Black Carbon Abundance, Microphysics, and Radiative Effect Observed Over South Korea. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 13,527.	3.3	24
115	Airborne extractive electrospray mass spectrometry measurements of the chemical composition of organic aerosol. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 1545-1559.	3.1	23
116	Accumulation-mode aerosol number concentrations in the Arctic during the ARCTAS aircraft campaign: Long-range transport of polluted and clean air from the Asian continent. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.2	22
117	Gas-to-particle partitioning of major biogenic oxidation products: a study on freshly formed and aged biogenic SOA. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12969-12989.	4.9	22
118	High Concentrations of Atmospheric Isocyanic Acid (HNCO) Produced from Secondary Sources in China. <i>Environmental Science &amp; Technology</i> , 2020, 54, 11818-11826.	10.3	22
119	Airborne formaldehyde and volatile organic compound measurements over the Daesan petrochemical complex on Korea's northwest coast during the Korea-United States Air Quality study. <i>Elementa</i> , 2020, 8, .	3.2	22
120	Introducing the extended volatility range proton-transfer-reaction mass spectrometer (EVR PTR-MS). <i>Atmospheric Measurement Techniques</i> , 2021, 14, 1355-1363.	3.1	21
121	Airborne measurements and emission estimates of greenhouse gases and other trace constituents from the 2013 California Yosemite Rim wildfire. <i>Atmospheric Environment</i> , 2016, 127, 293-302.	4.2	20
122	Top-down estimates of anthropogenic VOC emissions in South Korea using formaldehyde vertical column densities from aircraft during the KORUS-AQ campaign. <i>Elementa</i> , 2021, 9, .	3.2	20
123	Formaldehyde column density measurements as a suitable pathway to estimate near-surface ozone tendencies from space. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 13088-13112.	3.3	19
124	Higher measured than modeled ozone production at increased NO <sub>x</sub> levels in the Colorado Front Range. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11273-11292.	4.9	19
125	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.	4.9	19
126	Comparison of three aerosol chemical characterization techniques utilizing PTR-ToF-MS: a study on freshly formed and aged biogenic SOA. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 1481-1500.	3.1	19



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127	Modeling NH <sub>4</sub> NO <sub>3</sub> Over the San Joaquin Valley During the 2013 DISCOVER <sup>®</sup> AQ Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4727-4745.	3.3	18
128	Large <sup>®</sup> eddy simulation of biogenic VOC chemistry during the DISCOVER <sup>®</sup> AQ 2011 campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 8083-8105.	3.3	17
129	Airborne Emission Rate Measurements Validate Remote Sensing Observations and Emission Inventories of Western U.S. Wildfires. <i>Environmental Science &amp; Technology</i> , 2022, 56, 7564-7577.	10.3	17
130	Atmospheric Fate of Nitramines: An Experimental and Theoretical Study of the OH Reactions with CH <sub>3</sub> NHNO <sub>2</sub> and (CH <sub>3</sub> ) <sub>2</sub> NNO <sub>2</sub> . <i>Journal of Physical Chemistry A</i> , 2014, 118, 3450-3462.	2.6	16
131	Factors controlling marine aerosol size distributions and their climate effects over the northwest Atlantic Ocean region. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1889-1916.	4.9	16
132	Ammonia Dry Deposition in an Alpine Ecosystem Traced to Agricultural Emission Hotspots. <i>Environmental Science &amp; Technology</i> , 2021, 55, 7776-7785.	10.3	16
133	Novel Analysis to Quantify Plume Crosswind Heterogeneity Applied to Biomass Burning Smoke. <i>Environmental Science &amp; Technology</i> , 2021, 55, 15646-15657.	10.3	16
134	Intercomparison and evaluation of satellite peroxyacetyl nitrate observations in the upper troposphere <sup>®</sup> lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 13541-13559.	4.9	15
135	Bulk Organic Aerosol Analysis by Proton-Transfer-Reaction Mass Spectrometry: An Improved Methodology for the Determination of Total Organic Mass, O:C and H:C Elemental Ratios, and the Average Molecular Formula. <i>Analytical Chemistry</i> , 2019, 91, 12619-12624.	6.7	15
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