

Armin Wisthaler

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169
papers

7,456
citations

51
h-index

81
g-index

196
ext. papers

8,759
ext. citations

6.2
avg, IF

5.38
L-index

#	Paper	IF	Citations
169	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
168	The molecular identification of organic compounds in the atmosphere: state of the art and challenges. <i>Chemical Reviews</i> , 2015 , 115, 3919-83	68.1	300
167	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, 6568-75	11.5	279
166	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	6.8	188
165	Boreal forest fire emissions in fresh Canadian smoke plumes: C ₁ , C ₁₀ ; volatile organic compounds (VOCs), CO ₂ , CO, NO ₂ , NO, HCN and CH ₃ SH. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 6443-6463	6.8	178
164	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	6.8	178
163	On-line monitoring of microbial volatile metabolites by proton transfer reaction-mass spectrometry. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 2179-86	4.8	173
162	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
161	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	6.8	159
160	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	8.4	151
159	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 1281-1309	6.1	140
158	Ozone-initiated chemistry in an occupied simulated aircraft cabin. <i>Environmental Science & Technology</i> , 2007 , 41, 6177-84	10.3	131
157	Organic nitrate chemistry and its implications for nitrogen budgets in an isoprene- and monoterpene-rich atmosphere: constraints from aircraft (SEACRS) and ground-based (SOAS) observations in the Southeast US. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 5969-5991	6.8	129
156	Products of ozone-initiated chemistry in a simulated aircraft environment. <i>Environmental Science & Technology</i> , 2005 , 39, 4823-32	10.3	129
155	Contribution of different carbon sources to isoprene biosynthesis in poplar leaves. <i>Plant Physiology</i> , 2004 , 135, 152-60	6.6	118
154	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	4.4	116
153	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	3.8	94

152	Brown carbon in the continental troposphere. <i>Geophysical Research Letters</i> , 2014 , 41, 2191-2195	4.9	92
151	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,		88
150	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	6.8	86
149	Technical Note: Intercomparison of formaldehyde measurements at the atmosphere simulation chamber SAPHIR. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 2189-2200	6.8	85
148	Conversion of hydroperoxides to carbonyls in field and laboratory instrumentation: Observational bias in diagnosing pristine versus anthropogenically controlled atmospheric chemistry. <i>Geophysical Research Letters</i> , 2014 , 41, 8645-8651	4.9	83
147	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,		83
146	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	5.3	82
145	Geographical origin classification of olive oils by PTR-MS. <i>Food Chemistry</i> , 2008 , 108, 374-383	8.5	81
144	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	9.8	80
143	Airborne measurements of organosulfates over the continental U.S. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 2990-3005	4.4	77
142	Brown carbon aerosol in the North American continental troposphere: sources, abundance, and radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 7841-7858	6.8	74
141	A product study of the isoprene+NO ₃ reaction. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 4945-4956	6.8	74
140	Organic trace gas measurements by PTR-MS during INDOEX 1999. <i>Journal of Geophysical Research</i> , 2002 , 107, INX2 23-1		74
139	Agricultural fires in the southeastern U.S. during SEAC4RS: 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	4.4	71
138	Observations of nonmethane organic compounds during ARCTAS [Part 1: Biomass burning emissions and plume enhancements. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 11103-11130	6.8	70
137	Characterizing summertime chemical boundary conditions for airmasses entering the US West Coast. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 1769-1790	6.8	69
136	Upper tropospheric ozone production from lightning NO _x -impacted convection: Smoke ingestion case study from the DC3 campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 2505-2523	4.4	68
135	Transient release of oxygenated volatile organic compounds during light-dark transitions in Grey poplar leaves. <i>Plant Physiology</i> , 2004 , 135, 1967-75	6.6	68

134	Interactions of fire emissions and urban pollution over California: Ozone formation and air quality simulations. <i>Atmospheric Environment</i> , 2012 , 56, 45-51	5.3	66
133	Substantial Seasonal Contribution of Observed Biogenic Sulfate Particles to Cloud Condensation Nuclei. <i>Scientific Reports</i> , 2018 , 8, 3235	4.9	65
132	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	4	65
131	CO source contribution analysis for California during ARCTAS-CARB. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 7515-7532	6.8	62
130	Intercomparison of ammonia measurement techniques at an intensively managed grassland site (Oensingen, Switzerland). <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 2635-2645	6.8	61
129	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, n/a-n/a		60
128	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	6.8	60
127	The North Atlantic Aerosol and Marine Ecosystem Study (NAAMES): Science Motive and Mission Overview. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	58
126	Characterization of wine with PTR-MS. <i>International Journal of Mass Spectrometry</i> , 2004 , 239, 215-219	1.9	58
125	Observations of total RONO ₂ over the boreal forest: NO _x sinks and HNO ₃ sources. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 4543-4562	6.8	57
124	O ₂ ⁺ as reagent ion in the PTR-MS instrument: Detection of gas-phase ammonia. <i>International Journal of Mass Spectrometry</i> , 2007 , 265, 382-387	1.9	57
123	A method for real-time detection of PAN, PPN and MPAN in ambient air. <i>Geophysical Research Letters</i> , 2000 , 27, 895-898	4.9	57
122	Source attributions of pollution to the Western Arctic during the NASA ARCTAS field campaign. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 4707-4721	6.8	56
121	Atmospheric chemistry of 2-aminoethanol (MEA). <i>Energy Procedia</i> , 2011 , 4, 2245-2252	2.3	56
120	Airborne characterization of subsaturated aerosol hygroscopicity and dry refractive index from the surface to 6.5 km during the SEAC4RS campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 4188-4210	4.4	52
119	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6721-6744	6.8	52
118	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	5.4	51
117	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, 11,055-11,074	4.4	51

116	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	6.8	51
115	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, 332-338	3.5	51
114	New insights into the column CH ₂ O/NO ₂ ratio as an indicator of near-surface ozone sensitivity. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 8885-8907	4.4	49
113	Patterns of CO ₂ and radiocarbon across high northern latitudes during International Polar Year 2008. <i>Journal of Geophysical Research</i> , 2011 , 116,		48
112	In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC<sup>4</sup><sup>RS</sup>: observations of a modest aerosol enhancement aloft. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 7085-7102	6.8	46
111	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	6.8	45
110	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	6.8	45
109	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	4.4	44
108	Study of OH-initiated degradation of 2-aminoethanol. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 188161901	10.1	44
107	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 & Technology</i> , 2007 , 41, 229-34	10.3	44
106	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	6.8	43
105	Global and regional effects of the photochemistry of CH₃O₂/NO₂: evidence from ARCTAS. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 4209-4219	6.8	41
104	Proton-transfer-reaction mass spectrometry (PTR-MS) of carboxylic acids. <i>International Journal of Mass Spectrometry</i> , 2004 , 239, 243-248	1.9	41
103	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	6.8	40
102	A novel inlet system for online chemical analysis of semi-volatile submicron particulate matter. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 1353-1360	4	38
101	Quantifying sources and sinks of reactive gases in the lower atmosphere using airborne flux observations. <i>Geophysical Research Letters</i> , 2015 , 42, 8231-8240	4.9	38
100	Development of a proton-transfer reaction-linear ion trap mass spectrometer for quantitative determination of volatile organic compounds. <i>Analytical Chemistry</i> , 2008 , 80, 8171-7	7.8	38
99	Desiccant wheels as gas-phase absorption (GPA) air cleaners: evaluation by PTR-MS and sensory assessment. <i>Indoor Air</i> , 2008 , 18, 375-85	5.4	37

98	Emissions of C6-C8 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	4.4	36
97	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	4.4	33
96	Spectral absorption of biomass burning aerosol determined from retrieved single scattering albedo during ARCTAS. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 10505-10518	6.8	33
95	Emission Results of Amine Plant Operations from MEA Testing at the CO2 Technology Centre Mongstad. <i>Energy Procedia</i> , 2014 , 63, 6023-6038	2.3	31
94	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	1.9	31
93	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	4.4	30
92	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	6.8	30
91	Impact of Alternative Jet Fuels on Engine Exhaust Composition During the 2015 ECLIF Ground-Based Measurements Campaign. <i>Environmental Science & Technology</i> , 2018 , 52, 4969-4978	10.3	29
90	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	6.8	29
89	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	6.8	28
88	Lubricating Oil as a Major Constituent of Ship Exhaust Particles. <i>Environmental Science and Technology Letters</i> , 2017 , 4, 54-58	11	25
87	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, 7046-59	3.6	25
86	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	6.8	25
85	Airborne quantification of upper tropospheric NOx 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	4.4	24
84	Atmospheric chemistry of C3-C6 cycloalkanecarbaldehydes. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 5104-18	2.8	24
83	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	4.4	23
82	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	4.4	23
81	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

80	Characterization, sources and reactivity of volatile organic compounds (VOCs) in Seoul and surrounding regions during KORUS-AQ. <i>Elementa</i> , 2020 , 8,	3.6	22
79	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	2.3	21
78	Satellite isoprene retrievals constrain emissions and atmospheric oxidation. <i>Nature</i> , 2020 , 585, 225-233	50.4	21
77	Observational Constraints on the Oxidation of NO _x in the Upper Troposphere. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 1468-78	2.8	20
76	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	6.8	20
75	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	4.4	20
74	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	5.3	19
73	Experimental and Theoretical Study of the OH-Initiated Photo-oxidation of Formamide. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 1222-30	2.8	19
72	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,	3.6	19
71	Ambient observations of sub-1.0 hygroscopic growth factor and (RH) values: Case studies from surface and airborne measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 661-677	4.4	18
70	Time-Resolved Intermediate-Volatility and Semivolatile Organic Compound Emissions from Household Coal Combustion in Northern China. <i>Environmental Science & Technology</i> , 2019 , 53, 9269-9278	10.3	18
69	Direct Sampling and Analysis of Atmospheric Particulate Organic Matter by Proton-Transfer-Reaction Mass Spectrometry. <i>Analytical Chemistry</i> , 2017 , 89, 10889-10897	7.8	18
68	Using observations and source specific model tracers to characterize pollutant transport during FRAPPE and DISCOVER-AQ. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 10510-10538	4.4	18
67	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,		18
66	Is there an aerosol signature of chemical cloud processing?. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 16099-16119	6.8	18
65	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	6.8	17
64	New Perspectives on CO, Temperature, and Light Effects on BVOC Emissions Using Online Measurements by PTR-MS and Cavity Ring-Down Spectroscopy. <i>Environmental Science & Technology</i> , 2018 , 52, 13811-13823	10.3	16
63	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	4.4	15

62	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	5.3	15
61	Modeling NHNO Over the San Joaquin Valley During the 2013 DISCOVER-AQ Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 4727-4745	4.4	15
60	Atmospheric fate of nitramines: an experimental and theoretical study of the OH reactions with CH ₃ NHNO ₂ and (CH ₃) ₂ NNO ₂ . <i>Journal of Physical Chemistry A</i> , 2014 , 118, 3450-62	2.8	15
59	Higher measured than modeled ozone production at increased NO _x levels in the Colorado Front Range. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 11273-11292	6.8	15
58	An inversion of NO _x 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	6.8	15
57	Large-eddy simulation of biogenic VOC chemistry during the DISCOVER-AQ 2011 campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 8083-8105	4.4	14
56	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	4.4	14
55	Intercomparison and evaluation of satellite peroxyacetyl nitrate observations in the upper troposphere/lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 13541-13559	6.8	12
54	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	4	11
53	Towards a satellite formaldehyde Γ in situ hybrid estimate for organic aerosol abundance. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 2765-2785	6.8	10
52	Theoretical and Experimental Study on the Reaction of tert-Butylamine with OH Radicals in the Atmosphere. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 4470-4480	2.8	10
51	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations		10
50	High Concentrations of Atmospheric Isocyanic Acid (HNCO) Produced from Secondary Sources in China. <i>Environmental Science & Technology</i> , 2020 , 54, 11818-11826	10.3	10
49	A novel method for producing NH ₄ ⁺ reagent ions in the hollow cathode glow discharge ion source of PTR-MS instruments. <i>International Journal of Mass Spectrometry</i> , 2020 , 447, 116254	1.9	9
48	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	6.8	8
47	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	6.8	8
46	Ozone chemistry in western U.S. wildfire plumes. <i>Science Advances</i> , 2021 , 7, eabl3648	14.3	6
45	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,	3.6	6

44	Airborne measurements of particulate organic matter by proton-transfer-reaction mass spectrometry (PTR-MS): a pilot study. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 5947-5958	4	6
43	Airborne extractive electrospray mass spectrometry measurements of the chemical composition of organic aerosol. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 1545-1559	4	6
42	A compact and easy-to-use mass spectrometer for online monitoring of amines in the flue gas of a post-combustion carbon capture plant. <i>International Journal of Greenhouse Gas Control</i> , 2018 , 78, 349-355	4.2	6
41	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	6.8	6
40	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	7.8	5
39	Taehwa Research Forest: A receptor site for severe domestic pollution events in Korea during 2016. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 5051-5067	6.8	5
38	Biogenic isoprene emissions driven by regional weather predictions using different initialization methods: case studies during the SEAC ⁴ RS and DISCOVER-AQ airborne campaigns. <i>Geoscientific Model Development</i> , 2017 , 10, 3085-3104	6.3	5
37	Eddy-covariance flux measurements in an Italian deciduous forest using PTR-ToF-MS, PTR-QMS and FIS. <i>International Journal of Environmental Analytical Chemistry</i> , 2018 , 98, 758-788	1.8	5
36	Observations of total RONO ₂ over the boreal forest: NO _x sinks and HNO ₃ sources		5
35	Brown carbon aerosol in the North American continental troposphere: sources, abundance, and radiative forcing		5
34	Revisiting Acetonitrile as Tracer of Biomass Burning in Anthropogenic-Influenced Environments. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092322	4.9	5
33	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	6.8	5
32	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	4.4	4
31	Introducing the extended volatility range proton-transfer-reaction mass spectrometer (EVR PTR-MS). <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 1355-1363	4	4
30	Future changes in isoprene-epoxydiol-derived secondary organic aerosol (IEPOX SOA) under the Shared Socioeconomic Pathways: the importance of physicochemical dependency. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 3395-3425	6.8	4
29	Modeling air quality in the San Joaquin valley of California during the 2013 Discover-AQ field campaign. <i>Atmospheric Environment: X</i> , 2020 , 5, 100067	2.8	3
28	OH-chemistry of non-methane organic gases (NMOG) emitted from laboratory and ambient biomass burning smoke: evaluating the influence of furans and oxygenated aromatics on ozone and secondary NMOG formation 2019 ,		3
27	Comparison of three aerosol chemical characterization techniques utilizing PTR-ToF-MS: A study on freshly formed and aged biogenic SOA		3

26	A compact PTR-ToF-MS instrument for airborne measurements of VOCs at high spatio-temporal resolution	3	
25	Organic nitrate chemistry and its implications for nitrogen budgets in an isoprene- and monoterpene-rich atmosphere: constraints from aircraft (SEAC<sup>4</sup>RS) and ground-based (SOAS) observations in the Southeast US 2016,	3	
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23	Atmospheric Chemistry of tert-butylamine and AMP. <i>Energy Procedia</i> , 2017, 114, 1026-1032	2.3	2
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21	Atmospheric chemistry of diazomethane In an experimental and theoretical study. <i>Molecular Physics</i> , 2020, 118, e1718227	1.7	2
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