Andreas Stohl

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Technical note: The Lagrangian particle dispersion model FLEXPART version 6.2. Atmospheric Chemistry and Physics, 2005, 5, 2461-2474.	1.9	1,679
2	Computation, accuracy and applications of trajectories—A review and bibliography. Atmospheric Environment, 1998, 32, 947-966.	1.9	872
3	Validation of the lagrangian particle dispersion model FLEXPART against large-scale tracer experiment data. Atmospheric Environment, 1998, 32, 4245-4264.	1.9	766
4	Atmospheric composition change – global and regional air quality. Atmospheric Environment, 2009, 43, 5268-5350.	1.9	714
5	Characteristics of atmospheric transport into the Arctic troposphere. Journal of Geophysical Research, 2006, 111, .	3.3	578
6	Cesium-137 deposition and contamination of Japanese soils due to the Fukushima nuclear accident. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19530-19534.	3.3	551
7	Xenon-133 and caesium-137 releases into the atmosphere from the Fukushima Dai-ichi nuclear power plant: determination of the source term, atmospheric dispersion, and deposition. Atmospheric Chemistry and Physics, 2012, 12, 2313-2343.	1.9	510
8	Atmospheric transport is a major pathway of microplastics to remote regions. Nature Communications, 2020, 11, 3381.	5.8	489
9	Arctic Air Pollution: Origins and Impacts. Science, 2007, 315, 1537-1540.	6.0	440
10	Stratosphere-troposphere exchange: A review, and what we have learned from STACCATO. Journal of Geophysical Research, 2003, 108, .	3.3	413
11	Increasing springtime ozone mixing ratios in the free troposphere over western North America. Nature, 2010, 463, 344-348.	13.7	397
12	Frequency of extreme precipitation increases extensively with event rareness under global warming. Scientific Reports, 2019, 9, 16063.	1.6	393
13	Oceanic and terrestrial sources of continental precipitation. Reviews of Geophysics, 2012, 50, .	9.0	384
14	Arctic smoke – record high air pollution levels in the European Arctic due to agricultural fires in Eastern Europe in spring 2006. Atmospheric Chemistry and Physics, 2007, 7, 511-534.	1.9	372
15	Evaluating the climate and air quality impacts of short-lived pollutants. Atmospheric Chemistry and Physics, 2015, 15, 10529-10566.	1.9	365
16	Short-lived pollutants in the Arctic: their climate impact and possible mitigation strategies. Atmospheric Chemistry and Physics, 2008, 8, 1723-1735.	1.9	346
17	Interpolation Errors in Wind Fields as a Function of Spatial and Temporal Resolution and Their Impact on Different Types of Kinematic Trajectories. Journal of Applied Meteorology and Climatology, 1995, 34, 2149-2165.	1.7	339
18	Determination of time- and height-resolved volcanic ash emissions and their use for quantitative ash dispersion modeling: the 2010 Eyjafjallajökull eruption. Atmospheric Chemistry and Physics, 2011, 11, 4333-4351.	1.9	333

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19	A Lagrangian Analysis of the Atmospheric Branch of the Global Water Cycle. Part I: Method Description, Validation, and Demonstration for the August 2002 Flooding in Central Europe. Journal of Hydrometeorology, 2004, 5, 656-678.	0.7	332
20	Black carbon in the Arctic: the underestimated role of gas flaring and residential combustion emissions. Atmospheric Chemistry and Physics, 2013, 13, 8833-8855.	1.9	330
21	On the origin of continental precipitation. Geophysical Research Letters, 2010, 37, .	1.5	306
22	On the pathways and timescales of intercontinental air pollution transport. Journal of Geophysical Research, 2002, 107, ACH 6-1-ACH 6-17.	3.3	305
23	Trajectory statistics-A new method to establish source-receptor relationships of air pollutants and its application to the transport of particulate sulfate in Europe. Atmospheric Environment, 1996, 30, 579-587.	1.9	296
24	A backward modeling study of intercontinental pollution transport using aircraft measurements. Journal of Geophysical Research, 2003, 108, .	3.3	286
25	Transport of boreal forest fire emissions from Canada to Europe. Journal of Geophysical Research, 2001, 106, 22887-22906.	3.3	283
26	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) – integrating aerosol research from nano to global scales. Atmospheric Chemistry and Physics, 2011, 11, 13061-13143.	1.9	278
27	Airborne observations of the Eyjafjalla volcano ash cloud over Europe during air space closure in April and May 2010. Atmospheric Chemistry and Physics, 2011, 11, 2245-2279.	1.9	273
28	A 15-Year Climatology of Warm Conveyor Belts. Journal of Climate, 2004, 17, 218-237.	1.2	267
29	A Density Correction for Lagrangian Particle Dispersion Models. Boundary-Layer Meteorology, 1999, 90, 155-167.	1.2	262
30	Characteristics, sources, and transport of aerosols measured in spring 2008 during the aerosol, radiation, and cloud processes affecting Arctic Climate (ARCPAC) Project. Atmospheric Chemistry and Physics, 2011, 11, 2423-2453.	1.9	259
31	A textbook example of long-range transport: Simultaneous observation of ozone maxima of stratospheric and North American origin in the free troposphere over Europe. Journal of Geophysical Research, 1999, 104, 30445-30462.	3.3	257
32	The Lagrangian particle dispersion model FLEXPART-WRF version 3.1. Geoscientific Model Development, 2013, 6, 1889-1904.	1.3	256
33	A 1-year Lagrangian "climatology―of airstreams in the northern hemisphere troposphere and lowermost stratosphere. Journal of Geophysical Research, 2001, 106, 7263-7279.	3.3	251
34	A Lagrangian Analysis of the Atmospheric Branch of the Global Water Cycle. Part II: Moisture Transports between Earth's Ocean Basins and River Catchments. Journal of Hydrometeorology, 2005, 6, 961-984.	0.7	246
35	The Lagrangian particle dispersion model FLEXPART version 10.4. Geoscientific Model Development, 2019, 12, 4955-4997.	1.3	238
36	Long-range transport of Saharan dust to northern Europe: The 11-16 October 2001 outbreak observed with EARLINET. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	229

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37	Around the world in 17 days - hemispheric-scale transport of forest fire smoke from Russia in May 2003. Atmospheric Chemistry and Physics, 2004, 4, 1311-1321.	1.9	228
38	The North Atlantic Oscillation controls air pollution transport to the Arctic. Atmospheric Chemistry and Physics, 2003, 3, 1769-1778.	1.9	227
39	Source identification of short-lived air pollutants in the Arctic using statistical analysis of measurement data and particle dispersion model output. Atmospheric Chemistry and Physics, 2010, 10, 669-693.	1.9	218
40	Accuracy of trajectories as determined from the conservation of meteorological tracers. Quarterly Journal of the Royal Meteorological Society, 1998, 124, 1465-1484.	1.0	215
41	A replacement for simple back trajectory calculations in the interpretation of atmospheric trace substance measurements. Atmospheric Environment, 2002, 36, 4635-4648.	1.9	210
42	Raman lidar observations of aged Siberian and Canadian forest fire smoke in the free troposphere over Germany in 2003: Microphysical particle characterization. Journal of Geophysical Research, 2005, 110, .	3.3	207
43	The influence of stratospheric intrusions on alpine ozone concentrations. Atmospheric Environment, 2000, 34, 1323-1354.	1.9	206
44	Pan-Arctic enhancements of light absorbing aerosol concentrations due to North American boreal forest fires during summer 2004. Journal of Geophysical Research, 2006, 111, .	3.3	205
45	An analytical inversion method for determining regional and global emissions of greenhouse gases: Sensitivity studies and application to halocarbons. Atmospheric Chemistry and Physics, 2009, 9, 1597-1620.	1.9	204
46	Remote sources of water vapor forming precipitation on the Norwegian west coast at 60°N–a tale of hurricanes and an atmospheric river. Journal of Geophysical Research, 2008, 113, .	3.3	201
47	A review of sea-spray aerosol source functions using a large global set of sea salt aerosol concentration measurements. Atmospheric Chemistry and Physics, 2014, 14, 1277-1297.	1.9	192
48	Weakening temperature control on the interannual variations of spring carbon uptake across northern lands. Nature Climate Change, 2017, 7, 359-363.	8.1	183
49	Processes influencing ozone levels in Alaskan forest fire plumes during long-range transport over the North Atlantic. Journal of Geophysical Research, 2007, 112, .	3.3	182
50	Estimation of the vertical profile of sulfur dioxide injection into the atmosphere by a volcanic eruption using satellite column measurements and inverse transport modeling. Atmospheric Chemistry and Physics, 2008, 8, 3881-3897.	1.9	175
51	Black carbon physical properties and mixing state in the European megacity Paris. Atmospheric Chemistry and Physics, 2013, 13, 5831-5856.	1.9	174
52	Lead pollution recorded in Greenland ice indicates European emissions tracked plagues, wars, and imperial expansion during antiquity. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5726-5731.	3.3	174
53	Quantification of topographic venting of boundary layer air to the free troposphere. Atmospheric Chemistry and Physics, 2004, 4, 497-509.	1.9	173
54	Sources of particulate matter in the northeastern United States in summer: 1. Direct emissions and secondary formation of organic matter in urban plumes. Journal of Geophysical Research, 2008, 113, .	3.3	173

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55	An important contribution to springtime Arctic aerosol from biomass burning in Russia. Geophysical Research Letters, 2010, 37, .	1.5	172
56	Optical and microphysical characterization of biomass- burning and industrial-pollution aerosols from- multiwavelength lidar and aircraft measurements. Journal of Geophysical Research, 2002, 107, LAC 7-1-LAC 7-20.	3.3	169
57	Long-term trends of black carbon and sulphate aerosol in the Arctic: changes in atmospheric transport and source region emissions. Atmospheric Chemistry and Physics, 2010, 10, 9351-9368.	1.9	169
58	Volatile organic compounds composition of merged and aged forest fire plumes from Alaska and western Canada. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	165
59	Moisture Origin and Meridional Transport in Atmospheric Rivers and Their Association with Multiple Cyclones*. Monthly Weather Review, 2013, 141, 2850-2868.	0.5	164
60	Parameterization of Convective Transport in a Lagrangian Particle Dispersion Model and Its Evaluation. Journal of Applied Meteorology and Climatology, 2007, 46, 403-422.	0.6	149
61	Freezing thresholds and cirrus cloud formation mechanisms inferred from in situ measurements of relative humidity. Atmospheric Chemistry and Physics, 2003, 3, 1791-1806.	1.9	148
62	Current model capabilities for simulating black carbon and sulfate concentrations in the Arctic atmosphere: a multi-model evaluation using a comprehensive measurement data set. Atmospheric Chemistry and Physics, 2015, 15, 9413-9433.	1.9	145
63	Effects of mixing on evolution of hydrocarbon ratios in the troposphere. Journal of Geophysical Research, 2007, 112, .	3.3	140
64	Asymmetries in the moisture origin of Antarctic precipitation. Geophysical Research Letters, 2009, 36, .	1.5	139
65	Alaskan and Canadian forest fires exacerbate ozone pollution over Houston, Texas, on 19 and 20 July 2004. Journal of Geophysical Research, 2006, 111, .	3.3	138
66	State of the Climate in 2013. Bulletin of the American Meteorological Society, 2014, 95, S1-S279.	1.7	138
67	Optical characteristics of biomass burning aerosols over Southeastern Europe determined from UV-Raman lidar measurements. Atmospheric Chemistry and Physics, 2009, 9, 2431-2440.	1.9	136
68	A New Perspective of Stratosphere–Troposphere Exchange. Bulletin of the American Meteorological Society, 2003, 84, 1565-1574.	1.7	132
69	In-situ observations of mid-latitude forest fire plumes deep in the stratosphere. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	130
70	Clobal chemical weather forecasts for field campaign planning: predictions and observations of large-scale features during MINOS, CONTRACE, and INDOEX. Atmospheric Chemistry and Physics, 2003, 3, 267-289.	1.9	128
71	Sources and mixing state of size-resolved elemental carbon particles in a European megacity: Paris. Atmospheric Chemistry and Physics, 2012, 12, 1681-1700.	1.9	128
72	Impacts of sources and aging on submicrometer aerosol properties in the marine boundary layer across the Gulf of Maine. Journal of Geophysical Research, 2006, 111, .	3.3	126

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73	Fire in the Air: Biomass Burning Impacts in a Changing Climate. Critical Reviews in Environmental Science and Technology, 2013, 43, 40-83.	6.6	125
74	Aerosol-ozone correlations during dust transport episodes. Atmospheric Chemistry and Physics, 2004, 4, 1201-1215.	1.9	123
75	An intercomparison of results from three trajectory models. Meteorological Applications, 2001, 8, 127-135.	0.9	121
76	Overview of the MOSAiC expedition: Atmosphere. Elementa, 2022, 10, .	1.1	121
77	Wildfire smoke in the Siberian Arctic in summer: source characterization and plume evolution from airborne measurements. Atmospheric Chemistry and Physics, 2009, 9, 9315-9327.	1.9	120
78	Aerosol composition and sources in the central Arctic Ocean during ASCOS. Atmospheric Chemistry and Physics, 2011, 11, 10619-10636.	1.9	120
79	Arctic methane sources: Isotopic evidence for atmospheric inputs. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	119
80	Large upper tropospheric ozone enhancements above midlatitude North America during summer: In situ evidence from the IONS and MOZAIC ozone measurement network. Journal of Geophysical Research, 2006, 111, .	3.3	113
81	Natural iron fertilization by the Eyjafjallajökull volcanic eruption. Geophysical Research Letters, 2013, 40, 921-926.	1.5	113
82	Characteristics of atmospheric transport into the Antarctic troposphere. Journal of Geophysical Research, 2010, 115, .	3.3	112
83	Hydrochlorofluorocarbon and hydrofluorocarbon emissions in East Asia determined by inverse modeling. Atmospheric Chemistry and Physics, 2010, 10, 3545-3560.	1.9	110
84	A European inventory of soil nitric oxide emissions and the effect of these emissions on the photochemical formation of ozone. Atmospheric Environment, 1996, 30, 3741-3755.	1.9	108
85	Transport of north China air pollution by midlatitude cyclones: Case study of aircraft measurements in summer 2007. Journal of Geophysical Research, 2009, 114, .	3.3	108
86	Satellite detection of a continental-scale plume of nitrogen oxides from boreal forest fires. Geophysical Research Letters, 2001, 28, 4579-4582.	1.5	107
87	Arctic Air Pollution: New Insights from POLARCAT-IPY. Bulletin of the American Meteorological Society, 2014, 95, 1873-1895.	1.7	107
88	A 15-year climatology of stratosphere–troposphere exchange with a Lagrangian particle dispersion model 2. Mean climate and seasonal variability. Journal of Geophysical Research, 2003, 108, .	3.3	106
89	Record high peaks in PCB concentrations in the Arctic atmosphere due to long-range transport of biomass burning emissions. Atmospheric Chemistry and Physics, 2007, 7, 4527-4536.	1.9	106
90	Aerosol remote sensing in polar regions. Earth-Science Reviews, 2015, 140, 108-157.	4.0	106

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91	Observations of hydroxyl and the sum of peroxy radicals at Summit, Greenland during summer 2003. Atmospheric Environment, 2007, 41, 5122-5137.	1.9	105
92	Ozone variability and halogen oxidation within the Arctic and sub-Arctic springtime boundary layer. Atmospheric Chemistry and Physics, 2010, 10, 10223-10236.	1.9	104
93	A case study of pyro-convection using transport model and remote sensing data. Atmospheric Chemistry and Physics, 2006, 6, 173-185.	1.9	101
94	Aerosol particle measurements at three stationary sites in the megacity of Paris during summer 2009: meteorology and air mass origin dominate aerosol particle composition and size distribution. Atmospheric Chemistry and Physics, 2013, 13, 933-959.	1.9	101
95	Forest climatology: estimation of missing values for Bavaria, Germany. Agricultural and Forest Meteorology, 1999, 96, 131-144.	1.9	99
96	Emissions of Halogenated Compounds in East Asia Determined from Measurements at Jeju Island, Korea. Environmental Science & Technology, 2011, 45, 5668-5675.	4.6	99
97	Source apportionment of the summer time carbonaceous aerosol at Nordic rural background sites. Atmospheric Chemistry and Physics, 2011, 11, 13339-13357.	1.9	99
98	Saharan dust over a central European EARLINET-AERONET site: Combined observations with Raman lidar and Sun photometer. Journal of Geophysical Research, 2003, 108, .	3.3	98
99	Tracing biomass burning plumes from the Southern Hemisphere during the AMMA 2006 wet season experiment. Atmospheric Chemistry and Physics, 2008, 8, 3951-3961.	1.9	98
100	Lightâ€absorbing properties of ambient black carbon and brown carbon from fossil fuel and biomass burning sources. Journal of Geophysical Research D: Atmospheres, 2015, 120, 6619-6633.	1.2	98
101	Intercontinental transport of nitrogen oxide pollution plumes. Atmospheric Chemistry and Physics, 2003, 3, 387-393.	1.9	96
102	Long range transport and fate of a stratospheric volcanic cloud from Soufrière Hills volcano, Montserrat. Atmospheric Chemistry and Physics, 2007, 7, 5093-5103.	1.9	96
103	Ozone production and trace gas correlations during the June 2000 MINATROC intensive measurement campaign at Mt. Cimone. Atmospheric Chemistry and Physics, 2003, 3, 725-738.	1.9	95
104	Climatological aspects of the extreme European rainfall of August 2002 and a trajectory method for estimating the associated evaporative source regions. Natural Hazards and Earth System Sciences, 2004, 4, 733-746.	1.5	94
105	The influence of cruise ship emissions on air pollution in Svalbard – a harbinger of a more polluted Arctic?. Atmospheric Chemistry and Physics, 2013, 13, 8401-8409.	1.9	94
106	Remote sensing and inverse transport modeling of the Kasatochi eruption sulfur dioxide cloud. Journal of Geophysical Research, 2010, 115, .	3.3	93
107	Substantial contribution of northern highâ€latitude sources to mineral dust in the Arctic. Journal of Geophysical Research D: Atmospheres, 2016, 121, 13678-13697.	1.2	93
108	Intercontinental air pollution transport from North America to Europe: Experimental evidence from airborne measurements and surface observations. Journal of Geophysical Research, 2005, 110, .	3.3	92

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109	In situ, satellite measurement and model evidence on the dominant regional contribution to fine particulate matter levels in the Paris megacity. Atmospheric Chemistry and Physics, 2015, 15, 9577-9591.	1.9	92
110	Background ozone variations at Mt. Cimone Station. Atmospheric Environment, 2000, 34, 5183-5189.	1.9	89
111	Intercontinental transport and its influence on the ozone concentrations over central Europe: Three case studies. Journal of Geophysical Research, 2003, 108, .	3.3	88
112	Assessing temporal trends and source regions of per- and polyfluoroalkyl substances (PFASs) in air under the Arctic Monitoring and Assessment Programme (AMAP). Atmospheric Environment, 2018, 172, 65-73.	1.9	87
113	A climatology of 7Be at four high-altitude stations at the Alps and the Northern Apennines. Atmospheric Environment, 2001, 35, 6347-6360.	1.9	86
114	Forecasted deep stratospheric intrusions over Central Europe: case studies and climatologies. Atmospheric Chemistry and Physics, 2010, 10, 499-524.	1.9	85
115	High levels of particulate matter in Iceland due to direct ash emissions by the Eyjafjallajökull eruption and resuspension of deposited ash. Journal of Geophysical Research, 2012, 117, .	3.3	85
116	Direct transport of midlatitude stratospheric ozone into the lower troposphere and marine boundary layer of the tropical Pacific Ocean. Journal of Geophysical Research, 2005, 110, .	3.3	84
117	Cloud condensation nuclei as a modulator of ice processes in Arctic mixed-phase clouds. Atmospheric Chemistry and Physics, 2011, 11, 8003-8015.	1.9	84
118	Biomass burning and anthropogenic sources of CO over New England in the summer 2004. Journal of Geophysical Research, 2006, 111, .	3.3	83
119	Reactive nitrogen transport and photochemistry in urban plumes over the North Atlantic Ocean. Journal of Geophysical Research, 2006, 111, .	3.3	83
120	Performance assessment of a volcanic ash transport model miniâ€ensemble used for inverse modeling of the 2010 Eyjafjallajökull eruption. Journal of Geophysical Research, 2012, 117, .	3.3	83
121	Stratospheric volcanic ash emissions from the 13 February 2014 Kelut eruption. Geophysical Research Letters, 2015, 42, 588-596.	1.5	82
122	Methane emissions in East Asia for 2000–2011 estimated using an atmospheric Bayesian inversion. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4352-4369.	1.2	82
123	Evidence for a recurring eastern North America upper tropospheric ozone maximum during summer. Journal of Geophysical Research, 2007, 112, .	3.3	81
124	Regional atmospheric emissions determined from measurements at Jeju Island, Korea: Halogenated compounds from China. Geophysical Research Letters, 2010, 37, .	1.5	80
125	Siberian Arctic black carbon sources constrained by model and observation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1054-E1061.	3.3	80
126	An analysis of the mechanisms of North American pollutant transport to the central North Atlantic lower free troposphere. Journal of Geophysical Research, 2006, 111, .	3.3	79

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127	Overview of the synoptic and pollution situation over Europe during the EUCAARI-LONGREX field campaign. Atmospheric Chemistry and Physics, 2011, 11, 1065-1082.	1.9	79
128	Long-term monitoring of persistent organic pollutants (POPs) at the Norwegian Troll station in Dronning Maud Land, Antarctica. Atmospheric Chemistry and Physics, 2013, 13, 6983-6992.	1.9	78
129	Nocturnal odd-oxygen budget and its implications for ozone loss in the lower troposphere. Geophysical Research Letters, 2006, 33, .	1.5	75
130	Evaluation of observed and modelled aerosol lifetimes using radioactive tracers of opportunity and an ensemble of 19 global models. Atmospheric Chemistry and Physics, 2016, 16, 3525-3561.	1.9	75
131	A 6-year analysis of stratospheric intrusions and their influence on ozone at Mt. Cimone (2165 m above) Tj ETQq1	1.0.7843 3.3	14 rgBT /0 74
132	Comparing GOSAT observations of localized CO ₂ enhancements by large emitters with inventoryâ€based estimates. Geophysical Research Letters, 2016, 43, 3486-3493.	1.5	74
133	Extensive release of methane from Arctic seabed west of Svalbard during summer 2014 does not influence the atmosphere. Geophysical Research Letters, 2016, 43, 4624-4631.	1.5	74
134	Boundary layer aerosol chemistry during TexAQS/GoMACCS 2006: Insights into aerosol sources and transformation processes. Journal of Geophysical Research, 2008, 113, .	3.3	73
135	Aerosol black carbon at five background measurement sites over Finland, a gateway to the Arctic. Atmospheric Environment, 2011, 45, 4042-4050.	1.9	73
136	Wildfire influences on the variability and trend of summer surface ozone in the mountainous western United States. Atmospheric Chemistry and Physics, 2016, 16, 14687-14702.	1.9	73
137	Quantifying black carbon from biomass burning by means of levoglucosan – a one-year time series at the Arctic observatory Zeppelin. Atmospheric Chemistry and Physics, 2014, 14, 6427-6442.	1.9	71
138	Estimating the NO _x produced by lightning from GOME and NLDN data: a case study in the Gulf of Mexico. Atmospheric Chemistry and Physics, 2006, 6, 1075-1089.	1.9	70
139	Satellite observations of long range transport of a large BrO plume in the Arctic. Atmospheric Chemistry and Physics, 2010, 10, 6515-6526.	1.9	70
140	A multi-model analysis of vertical ozone profiles. Atmospheric Chemistry and Physics, 2010, 10, 5759-5783.	1.9	70
141	Influence of biomass burning and anthropogenic emissions on ozone, carbon monoxide and black carbon at the Mt. Cimone GAW-WMO global station (Italy, 2165 m a.s.l.). Atmospheric Chemistry and Physics, 2013, 13, 15-30.	1.9	69
142	Separation of ash and sulfur dioxide during the 2011 GrÃmsvötn eruption. Journal of Geophysical Research D: Atmospheres, 2014, 119, 7477-7501.	1.2	69
143	How stratospheric are deep stratospheric intrusions?. Atmospheric Chemistry and Physics, 2014, 14, 9941-9961.	1.9	69
144	The sources of atmospheric black carbon at a European gateway to the Arctic. Nature Communications, 2016, 7, 12776.	5.8	69

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145	A new aerosol wet removal scheme for the Lagrangian particle model FLEXPART v10. Geoscientific Model Development, 2017, 10, 1447-1466.	1.3	68
146	Source apportionment of circum-Arctic atmospheric black carbon from isotopes and modeling. Science Advances, 2019, 5, eaau8052.	4.7	68
147	Lightning-produced NO _x over Brazil during TROCCINOX: airborne measurements in tropical and subtropical thunderstorms and the importance of mesoscale convective systems. Atmospheric Chemistry and Physics, 2007, 7, 2987-3013.	1.9	67
148	Aircraft measurements over Europe of an air pollution plume from Southeast Asia – aerosol and chemical characterization. Atmospheric Chemistry and Physics, 2007, 7, 913-937.	1.9	67
149	In situ observations of new particle formation in the tropical upper troposphere: the role of clouds and the nucleation mechanism. Atmospheric Chemistry and Physics, 2011, 11, 9983-10010.	1.9	66
150	Dependence of solar radiative forcing of forest fire aerosol on ageing and state of mixture. Atmospheric Chemistry and Physics, 2003, 3, 881-891.	1.9	65
151	Arctic smoke – aerosol characteristics during a record smoke event in the European Arctic and its radiative impact. Atmospheric Chemistry and Physics, 2007, 7, 3035-3053.	1.9	65
152	Aerosol optical and hygroscopic properties during TexAQSâ€GoMACCS 2006 and their impact on aerosol direct radiative forcing. Journal of Geophysical Research, 2009, 114, .	3.3	65
153	Simultaneous retrieval of aerosol and cloud properties during the MILAGRO field campaign. Atmospheric Chemistry and Physics, 2011, 11, 6245-6263.	1.9	65
154	Stratospheric ozone intrusion episodes recorded at Mt. Cimone during the VOTALP project: case studies. Atmospheric Environment, 2000, 34, 1355-1365.	1.9	64
155	Emission and transport of bromocarbons: from the West Pacific ocean into the stratosphere. Atmospheric Chemistry and Physics, 2012, 12, 10633-10648.	1.9	64
156	Rapid intercontinental air pollution transport associated with a meteorological bomb. Atmospheric Chemistry and Physics, 2003, 3, 969-985.	1.9	62
157	Transport of mercury in the Arctic atmosphere: Evidence for a springâ€ŧime net sink and summerâ€ŧime source. Geophysical Research Letters, 2009, 36, .	1.5	62
158	Atmospheric mercury observations from Antarctica: seasonal variation and source and sink region calculations. Atmospheric Chemistry and Physics, 2012, 12, 3241-3251.	1.9	62
159	MEGAPOLI: concept of multi-scale modelling of megacity impact on air quality and climate. Advances in Science and Research, 2010, 4, 115-120.	1.0	62
160	Stratosphere-to-troposphere transport: A model and method evaluation. Journal of Geophysical Research, 2003, 108, .	3.3	61
161	An estimate of the impact of stratosphere-to-troposphere transport (STT) on the lower free tropospheric ozone over the Alps using10Be and7Be measurements. Journal of Geophysical Research, 2003, 108, .	3.3	61
162	Extreme CO concentrations in the upper troposphere over northeast Asia in June 2003 from the in situ MOZAIC aircraft data. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	61

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163	Perturbation of the European free troposphere aerosol by North American forest fire plumes during the ICARTT-ITOP experiment in summer 2004. Atmospheric Chemistry and Physics, 2007, 7, 5105-5127.	1.9	61
164	Transport of forest fire emissions from Alaska and the Yukon Territory to Nova Scotia during summer 2004. Journal of Geophysical Research, 2007, 112, .	3.3	61
165	The YAK-AEROSIB transcontinental aircraft campaigns: new insights on the transport of CO ₂ , CO and O ₃ across Siberia. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 551.	0.8	61
166	The Finokalia Aerosol Measurement Experiment – 2008 (FAME-08): an overview. Atmospheric Chemistry and Physics, 2010, 10, 6793-6806.	1.9	61
167	Lagrangian transport model forecasts and a transport climatology for the Intercontinental Transport and Chemical Transformation 2002 (ITCT 2K2) measurement campaign. Journal of Geophysical Research, 2004, 109, .	3.3	60
168	Establishing Lagrangian connections between observations within air masses crossing the Atlantic during the International Consortium for Atmospheric Research on Transport and Transformation experiment. Journal of Geophysical Research, 2006, 111, .	3.3	60
169	Patterns of CO ₂ and radiocarbon across high northern latitudes during International Polar Year 2008. Journal of Geophysical Research, 2011, 116, .	3.3	59
170	Methane fluxes in the high northern latitudes for 2005–2013 estimated using a Bayesian atmospheric inversion. Atmospheric Chemistry and Physics, 2017, 17, 3553-3572.	1.9	59
171	Export of NOyfrom the North American boundary layer during 1996 and 1997 North Atlantic Regional Experiments. Journal of Geophysical Research, 2002, 107, ACH 11-1-ACH 11-13.	3.3	58
172	New-particle formation events in a continental boundary layer: first results from the SATURN experiment. Atmospheric Chemistry and Physics, 2003, 3, 1445-1459.	1.9	58
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