

Andreas Stohl

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445
papers

27,802
citations

88
h-index

150
g-index

527
ext. papers

31,523
ext. citations

6.3
avg, IF

6.98
L-index

#	Paper	IF	Citations
445	Technical note: The Lagrangian particle dispersion model FLEXPART version 6.2. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 2461-2474	6.8	1337
444	Computation, accuracy and applications of trajectories: A review and bibliography. <i>Atmospheric Environment</i> , 1998 , 32, 947-966	5.3	775
443	Validation of the lagrangian particle dispersion model FLEXPART against large-scale tracer experiment data. <i>Atmospheric Environment</i> , 1998 , 32, 4245-4264	5.3	656
442	Atmospheric composition change: Global and regional air quality. <i>Atmospheric Environment</i> , 2009 , 43, 5268-5350	5.3	592
441	Characteristics of atmospheric transport into the Arctic troposphere. <i>Journal of Geophysical Research</i> , 2006 , 111,		474
440	Cesium-137 deposition and contamination of Japanese soils due to the Fukushima nuclear accident. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 19530-4	11.5	473
439	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. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 2313-2343	6.8	403
438	Arctic air pollution: origins and impacts. <i>Science</i> , 2007 , 315, 1537-40	33.3	365
437	Increasing springtime ozone mixing ratios in the free troposphere over western North America. <i>Nature</i> , 2010 , 463, 344-8	50.4	340
436	Stratosphere-troposphere exchange: A review, and what we have learned from STACCATO. <i>Journal of Geophysical Research</i> , 2003 , 108,		333
435	Arctic smoke: Record high air pollution levels in the European Arctic due to agricultural fires in Eastern Europe in spring 2006. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 511-534	6.8	325
434	Oceanic and terrestrial sources of continental precipitation. <i>Reviews of Geophysics</i> , 2012 , 50,	23.1	292
433	Short-lived pollutants in the Arctic: their climate impact and possible mitigation strategies. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 1723-1735	6.8	292
432	Determination of time- and height-resolved volcanic ash emissions and their use for quantitative ash dispersion modeling: the 2010 Eyjafjallajökull eruption. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 4333-4351	6.8	278
431	Interpolation Errors in Wind Fields as a Function of Spatial and Temporal Resolution and Their Impact on Different Types of Kinematic Trajectories. <i>Journal of Applied Meteorology and Climatology</i> , 1995 , 34, 2149-2165		274
430	Black carbon in the Arctic: the underestimated role of gas flaring and residential combustion emissions. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 8833-8855	6.8	263
429	Evaluating the climate and air quality impacts of short-lived pollutants. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 10529-10566	6.8	261

428	On the origin of continental precipitation. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	255
427	Airborne observations of the Eyjafjalla volcano ash cloud over Europe during air space closure in April and May 2010. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 2245-2279	6.8	251
426	Trajectory statistics-A new method to establish source-receptor relationships of air pollutants and its application to the transport of particulate sulfate in Europe. <i>Atmospheric Environment</i> , 1996 , 30, 579-587	5.3	251
425	On the pathways and timescales of intercontinental air pollution transport. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 6-1-ACH 6-17		250
424	A backward modeling study of intercontinental pollution transport using aircraft measurements. <i>Journal of Geophysical Research</i> , 2003 , 108,		243
423	Transport of boreal forest fire emissions from Canada to Europe. <i>Journal of Geophysical Research</i> , 2001 , 106, 22887-22906		237
422	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. <i>Journal of Hydrometeorology</i> , 2004 , 5, 656-678	3.7	234
421	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) Integrating aerosol research from nano to global scales. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 13061-13143	6.8	231
420	A 15-Year Climatology of Warm Conveyor Belts. <i>Journal of Climate</i> , 2004 , 17, 218-237	4.4	223
419	Characteristics, sources, and transport of aerosols measured in spring 2008 during the aerosol, radiation, and cloud processes affecting Arctic Climate (ARCPAC) Project. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 2423-2453	6.8	217
418	A Density Correction for Lagrangian Particle Dispersion Models. <i>Boundary-Layer Meteorology</i> , 1999 , 90, 155-167	3.4	216
417	A 1-year Lagrangian climatology of airstreams in the northern hemisphere troposphere and lowermost stratosphere. <i>Journal of Geophysical Research</i> , 2001 , 106, 7263-7279		212
416	A textbook example of long-range transport: Simultaneous observation of ozone maxima of stratospheric and North American origin in the free troposphere over Europe. <i>Journal of Geophysical Research</i> , 1999 , 104, 30445-30462		207
415	Around the world in 17 days - hemispheric-scale transport of forest fire smoke from Russia in May 2003. <i>Atmospheric Chemistry and Physics</i> , 2004 , 4, 1311-1321	6.8	194
414	Atmospheric transport is a major pathway of microplastics to remote regions. <i>Nature Communications</i> , 2020 , 11, 3381	17.4	193
413	The Lagrangian particle dispersion model FLEXPART-WRF version 3.1. <i>Geoscientific Model Development</i> , 2013 , 6, 1889-1904	6.3	192
412	A Lagrangian Analysis of the Atmospheric Branch of the Global Water Cycle. Part II: Moisture Transports between Earth's Ocean Basins and River Catchments. <i>Journal of Hydrometeorology</i> , 2005 , 6, 961-984	3.7	190
411	Long-range transport of Saharan dust to northern Europe: The 11-16 October 2001 outbreak observed with EARLINET. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		189

410	The North Atlantic Oscillation controls air pollution transport to the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 1769-1778	6.8	184
409	Source identification of short-lived air pollutants in the Arctic using statistical analysis of measurement data and particle dispersion model output. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 669-693	6.8	182
408	Accuracy of trajectories as determined from the conservation of meteorological tracers. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1998 , 124, 1465-1484	6.4	180
407	Pan-Arctic enhancements of light absorbing aerosol concentrations due to North American boreal forest fires during summer 2004. <i>Journal of Geophysical Research</i> , 2006 , 111,		180
406	A replacement for simple back trajectory calculations in the interpretation of atmospheric trace substance measurements. <i>Atmospheric Environment</i> , 2002 , 36, 4635-4648	5.3	177
405	The influence of stratospheric intrusions on alpine ozone concentrations. <i>Atmospheric Environment</i> , 2000 , 34, 1323-1354	5.3	174
404	Remote sources of water vapor forming precipitation on the Norwegian west coast at 60°N tale of hurricanes and an atmospheric river. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		171
403	Raman lidar observations of aged Siberian and Canadian forest fire smoke in the free troposphere over Germany in 2003: Microphysical particle characterization. <i>Journal of Geophysical Research</i> , 2005 , 110,		169
402	An analytical inversion method for determining regional and global emissions of greenhouse gases: Sensitivity studies and application to halocarbons. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1597-1620	6.8	162
401	Sources of particulate matter in the northeastern United States in summer: 1. Direct emissions and secondary formation of organic matter in urban plumes. <i>Journal of Geophysical Research</i> , 2008 , 113,		158
400	Processes influencing ozone levels in Alaskan forest fire plumes during long-range transport over the North Atlantic. <i>Journal of Geophysical Research</i> , 2007 , 112,		158
399	Estimation of the vertical profile of sulfur dioxide injection into the atmosphere by a volcanic eruption using satellite column measurements and inverse transport modeling. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 3881-3897	6.8	156
398	An important contribution to springtime Arctic aerosol from biomass burning in Russia. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	155
397	Quantification of topographic venting of boundary layer air to the free troposphere. <i>Atmospheric Chemistry and Physics</i> , 2004 , 4, 497-509	6.8	154
396	Frequency of extreme precipitation increases extensively with event rareness under global warming. <i>Scientific Reports</i> , 2019 , 9, 16063	4.9	150
395	Volatile organic compounds composition of merged and aged forest fire plumes from Alaska and western Canada. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		149
394	A review of sea-spray aerosol source functions using a large global set of sea salt aerosol concentration measurements. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1277-1297	6.8	144
393	Optical and microphysical characterization of biomass- burning and industrial-pollution aerosols from- multiwavelength lidar and aircraft measurements. <i>Journal of Geophysical Research</i> , 2002 , 107, LAC 7-1-LAC 7-20		139

392	Black carbon physical properties and mixing state in the European megacity Paris. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 5831-5856	6.8	138
391	Long-term trends of black carbon and sulphate aerosol in the Arctic: changes in atmospheric transport and source region emissions. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9351-9368	6.8	135
390	Moisture Origin and Meridional Transport in Atmospheric Rivers and Their Association with Multiple Cyclones*. <i>Monthly Weather Review</i> , 2013 , 141, 2850-2868	2.4	133
389	State of the Climate in 2013. <i>Bulletin of the American Meteorological Society</i> , 2014 , 95, S1-S279	6.1	128
388	Freezing thresholds and cirrus cloud formation mechanisms inferred from in situ measurements of relative humidity. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 1791-1806	6.8	126
387	Parameterization of Convective Transport in a Lagrangian Particle Dispersion Model and Its Evaluation. <i>Journal of Applied Meteorology and Climatology</i> , 2007 , 46, 403-422	2.7	125
386	Alaskan and Canadian forest fires exacerbate ozone pollution over Houston, Texas, on 19 and 20 July 2004. <i>Journal of Geophysical Research</i> , 2006 , 111,		125
385	Asymmetries in the moisture origin of Antarctic precipitation. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	118
384	Effects of mixing on evolution of hydrocarbon ratios in the troposphere. <i>Journal of Geophysical Research</i> , 2007 , 112,		117
383	Sources and mixing state of size-resolved elemental carbon particles in a European megacity: Paris. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1681-1700	6.8	115
382	Impacts of sources and aging on submicrometer aerosol properties in the marine boundary layer across the Gulf of Maine. <i>Journal of Geophysical Research</i> , 2006 , 111,		113
381	Global chemical weather forecasts for field campaign planning: predictions and observations of large-scale features during MINOS, CONTRACE, and INDOEX. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 267-289	6.8	112
380	Current model capabilities for simulating black carbon and sulfate concentrations in the Arctic atmosphere: a multi-model evaluation using a comprehensive measurement data set. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 9413-9433	6.8	111
379	A New Perspective of Stratosphere-Troposphere Exchange. <i>Bulletin of the American Meteorological Society</i> , 2003 , 84, 1565-1574	6.1	110
378	In-situ observations of mid-latitude forest fire plumes deep in the stratosphere. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	110
377	Optical characteristics of biomass burning aerosols over Southeastern Europe determined from UV-Raman lidar measurements. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 2431-2440	6.8	109
376	Weakening temperature control on the interannual variations of spring carbon uptake across northern lands. <i>Nature Climate Change</i> , 2017 , 7, 359-363	21.4	107
375	Lead pollution recorded in Greenland ice indicates European emissions tracked plagues, wars, and imperial expansion during antiquity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5726-5731	11.5	106

374	Arctic methane sources: Isotopic evidence for atmospheric inputs. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	105
373	Aerosol-ozone correlations during dust transport episodes. <i>Atmospheric Chemistry and Physics</i> , 2004 , 4, 1201-1215	6.8	105
372	The Lagrangian particle dispersion model FLEXPART version 10.4. <i>Geoscientific Model Development</i> , 2019 , 12, 4955-4997	6.3	104
371	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
370	An intercomparison of results from three trajectory models. <i>Meteorological Applications</i> , 2001 , 8, 127-135.	11.1	101
369	A 15-year climatology of stratosphere-troposphere exchange with a Lagrangian particle dispersion model 2. Mean climate and seasonal variability. <i>Journal of Geophysical Research</i> , 2003 , 108,		97
368	Fire in the Air: Biomass Burning Impacts in a Changing Climate. <i>Critical Reviews in Environmental Science and Technology</i> , 2013 , 43, 40-83	11.1	96
367	Ozone variability and halogen oxidation within the Arctic and sub-Arctic springtime boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 10223-10236	6.8	94
366	Record high peaks in PCB concentrations in the Arctic atmosphere due to long-range transport of biomass burning emissions. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 4527-4536	6.8	94
365	Observations of hydroxyl and the sum of peroxy radicals at Summit, Greenland during summer 2003. <i>Atmospheric Environment</i> , 2007 , 41, 5122-5137	5.3	93
364	Aerosol composition and sources in the central Arctic Ocean during ASCOS. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 10619-10636	6.8	92
363	Wildfire smoke in the Siberian Arctic in summer: source characterization and plume evolution from airborne measurements. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 9315-9327	6.8	92
362	Hydrochlorofluorocarbon and hydrofluorocarbon emissions in East Asia determined by inverse modeling. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 3545-3560	6.8	90
361	A European inventory of soil nitric oxide emissions and the effect of these emissions on the photochemical formation of ozone. <i>Atmospheric Environment</i> , 1996 , 30, 3741-3755	5.3	90
360	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. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 933-959	6.8	89
359	Characteristics of atmospheric transport into the Antarctic troposphere. <i>Journal of Geophysical Research</i> , 2010 , 115,		88
358	Tracing biomass burning plumes from the Southern Hemisphere during the AMMA 2006 wet season experiment. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 3951-3961	6.8	88
357	A case study of pyro-convection using transport model and remote sensing data. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 173-185	6.8	88

356	Natural iron fertilization by the Eyjafjallajökull volcanic eruption. <i>Geophysical Research Letters</i> , 2013 , 40, 921-926	4.9	87
355	Transport of north China air pollution by midlatitude cyclones: Case study of aircraft measurements in summer 2007. <i>Journal of Geophysical Research</i> , 2009 , 114,		87
354	Satellite detection of a continental-scale plume of nitrogen oxides from boreal forest fires. <i>Geophysical Research Letters</i> , 2001 , 28, 4579-4582	4.9	86
353	Arctic Air Pollution: New Insights from POLARCAT-IPY. <i>Bulletin of the American Meteorological Society</i> , 2014 , 95, 1873-1895	6.1	85
352	Aerosol remote sensing in polar regions. <i>Earth-Science Reviews</i> , 2015 , 140, 108-157	10.2	83
351	Remote sensing and inverse transport modeling of the Kasatochi eruption sulfur dioxide cloud. <i>Journal of Geophysical Research</i> , 2010 , 115,		83
350	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		83
349	Long range transport and fate of a stratospheric volcanic cloud from Soufrière Hills volcano, Montserrat. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 5093-5103	6.8	82
348	Saharan dust over a central European EARLINET-AERONET site: Combined observations with Raman lidar and Sun photometer. <i>Journal of Geophysical Research</i> , 2003 , 108,		81
347	Source apportionment of the summer time carbonaceous aerosol at Nordic rural background sites. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 13339-13357	6.8	80
346	Intercontinental transport of nitrogen oxide pollution plumes. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 387-393	6.8	80
345	Background ozone variations at Mt. Cimone Station. <i>Atmospheric Environment</i> , 2000 , 34, 5183-5189	5.3	79
344	Emissions of halogenated compounds in East Asia determined from measurements at Jeju Island, Korea. <i>Environmental Science & Technology</i> , 2011 , 45, 5668-75	10.3	77
343	Climatological aspects of the extreme European rainfall of August 2002 and a trajectory method for estimating the associated evaporative source regions. <i>Natural Hazards and Earth System Sciences</i> , 2004 , 4, 733-746	3.9	77
342	Light-absorbing properties of ambient black carbon and brown carbon from fossil fuel and biomass burning sources. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 6619-6633	4.4	76
341	Ozone production and trace gas correlations during the June 2000 MINATROC intensive measurement campaign at Mt. Cimone. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 725-738	6.8	76
340	A climatology of ⁷ Be at four high-altitude stations at the Alps and the Northern Apennines. <i>Atmospheric Environment</i> , 2001 , 35, 6347-6360	5.3	76
339	Intercontinental air pollution transport from North America to Europe: Experimental evidence from airborne measurements and surface observations. <i>Journal of Geophysical Research</i> , 2005 , 110,		75

338	Direct transport of midlatitude stratospheric ozone into the lower troposphere and marine boundary layer of the tropical Pacific Ocean. <i>Journal of Geophysical Research</i> , 2005 , 110,		75
337	Biomass burning and anthropogenic sources of CO over New England in the summer 2004. <i>Journal of Geophysical Research</i> , 2006 , 111,		75
336	Evidence for a recurring eastern North America upper tropospheric ozone maximum during summer. <i>Journal of Geophysical Research</i> , 2007 , 112,		74
335	In situ, satellite measurement and model evidence on the dominant regional contribution to fine particulate matter levels in the Paris megacity. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 9577-9591	6.8	72
334	The influence of cruise ship emissions on air pollution in Svalbard – a harbinger of a more polluted Arctic?. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 8401-8409	6.8	72
333	Forest climatology: estimation of missing values for Bavaria, Germany. <i>Agricultural and Forest Meteorology</i> , 1999 , 96, 131-144	5.8	71
332	Performance assessment of a volcanic ash transport model mini-ensemble used for inverse modeling of the 2010 Eyjafjallajökull eruption. <i>Journal of Geophysical Research</i> , 2012 , 117,		70
331	Reactive nitrogen transport and photochemistry in urban plumes over the North Atlantic Ocean. <i>Journal of Geophysical Research</i> , 2006 , 111,		70
330	Stratospheric volcanic ash emissions from the 13 February 2014 Kelut eruption. <i>Geophysical Research Letters</i> , 2015 , 42, 588-596	4.9	68
329	High levels of particulate matter in Iceland due to direct ash emissions by the Eyjafjallajökull eruption and resuspension of deposited ash. <i>Journal of Geophysical Research</i> , 2012 , 117,		67
328	Intercontinental transport and its influence on the ozone concentrations over central Europe: Three case studies. <i>Journal of Geophysical Research</i> , 2003 , 108,		67
327	Overview of the synoptic and pollution situation over Europe during the EUCAARI-LONGREX field campaign. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 1065-1082	6.8	66
326	Regional atmospheric emissions determined from measurements at Jeju Island, Korea: Halogenated compounds from China. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	66
325	A 6-year analysis of stratospheric intrusions and their influence on ozone at Mt. Cimone (2165 m above sea level). <i>Journal of Geophysical Research</i> , 2006 , 111,		66
324	Nocturnal odd-oxygen budget and its implications for ozone loss in the lower troposphere. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	66
323	Boundary layer aerosol chemistry during TexAQS/GoMACCS 2006: Insights into aerosol sources and transformation processes. <i>Journal of Geophysical Research</i> , 2008 , 113,		65
322	Separation of ash and sulfur dioxide during the 2011 Grímsvöfn eruption. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 7477-7501	4.4	63
321	Cloud condensation nuclei as a modulator of ice processes in Arctic mixed-phase clouds. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 8003-8015	6.8	61

320	A multi-model analysis of vertical ozone profiles. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 5759-5783	6.8	61
319	An analysis of the mechanisms of North American pollutant transport to the central North Atlantic lower free troposphere. <i>Journal of Geophysical Research</i> , 2006 , 111,		61
318	Methane emissions in East Asia for 2000-2011 estimated using an atmospheric Bayesian inversion. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 4352-4369	4.4	60
317	Satellite observations of long range transport of a large BrO plume in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 6515-6526	6.8	60
316	Extensive release of methane from Arctic seabed west of Svalbard during summer 2014 does not influence the atmosphere. <i>Geophysical Research Letters</i> , 2016 , 43, 4624-4631	4.9	60
315	Assessing temporal trends and source regions of per- and polyfluoroalkyl substances (PFASs) in air under the Arctic Monitoring and Assessment Programme (AMAP). <i>Atmospheric Environment</i> , 2018 , 172, 65-73	5.3	60
314	Aircraft measurements over Europe of an air pollution plume from Southeast Asia: aerosol and chemical characterization. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 913-937	6.8	59
313	Estimating the NO _x produced by lightning from GOME and NLDN data: a case study in the Gulf of Mexico. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 1075-1089	6.8	59
312	Evaluation of observed and modelled aerosol lifetimes using radioactive tracers of opportunity and an ensemble of 19 global models. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 3525-3561	6.8	58
311	Quantifying black carbon from biomass burning by means of levoglucosan: a one-year time series at the Arctic observatory Zeppelin. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 6427-6442	6.8	58
310	Substantial contribution of northern high-latitude sources to mineral dust in the Arctic. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 13678-13697	4.4	57
309	Long-term monitoring of persistent organic pollutants (POPs) at the Norwegian Troll station in Dronning Maud Land, Antarctica. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 6983-6992	6.8	57
308	Aerosol black carbon at five background measurement sites over Finland, a gateway to the Arctic. <i>Atmospheric Environment</i> , 2011 , 45, 4042-4050	5.3	57
307	Aerosol optical and hygroscopic properties during TexAQs-GoMACCS 2006 and their impact on aerosol direct radiative forcing. <i>Journal of Geophysical Research</i> , 2009 , 114,		57
306	Lightning-produced NO _x over Brazil during TROCCINOX: airborne measurements in tropical and subtropical thunderstorms and the importance of mesoscale convective systems. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 2987-3013	6.8	57
305	Dependence of solar radiative forcing of forest fire aerosol on ageing and state of mixture. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 881-891	6.8	57
304	An estimate of the impact of stratosphere-to-troposphere transport (STT) on the lower free tropospheric ozone over the Alps using 10Be and 7Be measurements. <i>Journal of Geophysical Research</i> , 2003 , 108,		57
303	Siberian Arctic black carbon sources constrained by model and observation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E1054-E1061	11.5	56

302	Simultaneous retrieval of aerosol and cloud properties during the MILAGRO field campaign. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 6245-6263	6.8	56
301	Transport of mercury in the Arctic atmosphere: Evidence for a spring-time net sink and summer-time source. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	56
300	Transport of forest fire emissions from Alaska and the Yukon Territory to Nova Scotia during summer 2004. <i>Journal of Geophysical Research</i> , 2007 , 112,		56
299	Extreme CO concentrations in the upper troposphere over northeast Asia in June 2003 from the in situ MOZAIC aircraft data. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	56
298	Stratosphere-to-troposphere transport: A model and method evaluation. <i>Journal of Geophysical Research</i> , 2003 , 108,		56
297	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.). <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 15-30	6.8	55
296	Forecasted deep stratospheric intrusions over Central Europe: case studies and climatologies. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 499-524	6.8	55
295	Comparing GOSAT observations of localized CO ₂ enhancements by large emitters with inventory-based estimates. <i>Geophysical Research Letters</i> , 2016 , 43, 3486-3493	4.9	55
294	Emission and transport of bromocarbons: from the West Pacific ocean into the stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 10633-10648	6.8	54
293	The YAK-AEROSIB transcontinental aircraft campaigns: new insights on the transport of CO ₂ , CO and O ₃ across Siberia. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2008 , 60, 551-568	3.3	54
292	Arctic smoke aerosol characteristics during a record smoke event in the European Arctic and its radiative impact. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 3035-3053	6.8	53
291	Perturbation of the European free troposphere aerosol by North American forest fire plumes during the ICARTT-ITOP experiment in summer 2004. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 5105-5127	6.8	53
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50	Perturbation of the European free troposphere aerosol by North American forest fire plumes during the ICARTT-ITOP Experiment in summer 2004		2
49	Source regions of some Persistent Organic Pollutants measured in the atmosphere at Birkenes, Norway		2
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