Peter Hoor

List of Publications by Year
in descending order

101	6,544	76326	79698
papers	citations	40 h-index	73 g-index

183	183	183	5841
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bioaerosols in the Earth system: Climate, health, and ecosystem interactions. Atmospheric Research, 2016, 182, 346-376.	4.1	609
2	The atmospheric chemistry general circulation model ECHAM5/MESSy1: consistent simulation of ozone from the surface to the mesosphere. Atmospheric Chemistry and Physics, 2006, 6, 5067-5104.	4.9	528
3	Transport impacts on atmosphere and climate: Land transport. Atmospheric Environment, 2010, 44, 4772-4816.	4.1	285
4	THE EXTRATROPICAL UPPER TROPOSPHERE AND LOWER STRATOSPHERE. Reviews of Geophysics, 2011, 49, .	23.0	284
5	Transport of biomass burning smoke to the upper troposphere by deep convection in the equatorial region. Geophysical Research Letters, 2001, 28, 951-954.	4.0	234
6	Seasonal variations of a mixing layer in the lowermost stratosphere as identified by the CO-O3correlation from in situ measurements. Journal of Geophysical Research, 2002, 107, ACL 1-1-ACL 1-11.	3.3	169
7	Observationally derived transport diagnostics for the lowermost stratosphere and their application to the GMI chemistry and transport model. Atmospheric Chemistry and Physics, 2007, 7, 2435-2445.	4.9	167
8	Seasonality and extent of extratropical TST derived from in-situ CO measurements during SPURT. Atmospheric Chemistry and Physics, 2004, 4, 1427-1442.	4.9	152
9	The Arctic Cloud Puzzle: Using ACLOUD/PASCAL Multiplatform Observations to Unravel the Role of Clouds and Aerosol Particles in Arctic Amplification. Bulletin of the American Meteorological Society, 2019, 100, 841-871.	3.3	145
10	The impact of traffic emissions on atmospheric ozone and OH: results from QUANTIFY. Atmospheric Chemistry and Physics, 2009, 9, 3113-3136.	4.9	143
11	Tracer correlations in the northern high latitude lowermost stratosphere: Influence of cross-tropopause mass exchange. Geophysical Research Letters, 2000, 27, 97-100.	4.0	138
12	Overview paper: New insights into aerosol and climate in the Arctic. Atmospheric Chemistry and Physics, 2019, 19, 2527-2560.	4.9	134
13	High spatial and temporal resolution measurements of primary organics and their oxidation products over the tropical forests of Surinam. Atmospheric Environment, 2000, 34, 1161-1165.	4.1	111
14	Title is missing!. Journal of Atmospheric Chemistry, 2001, 38, 167-185.	3.2	111
15	Growth of nucleation mode particles in the summertime Arctic: a case study. Atmospheric Chemistry and Physics, 2016, 16, 7663-7679.	4.9	111
16	Stratospheric dryness: model simulations and satellite observations. Atmospheric Chemistry and Physics, 2007, 7, 1313-1332.	4.9	109
17	Severe ozone air pollution in the Persian Gulf region. Atmospheric Chemistry and Physics, 2009, 9, 1393-1406.	4.9	105
18	Tropical troposphere to stratosphere transport of carbon monoxide and long-lived trace species in the Chemical Lagrangian Model of the Stratosphere (CLaMS). Geoscientific Model Development, 2014, 7, 2895-2916.	3.6	104

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19	Fast transport from Southeast Asia boundary layer sources to northern Europe: rapid uplift in typhoons and eastward eddy shedding of the Asian monsoon anticyclone. Atmospheric Chemistry and Physics, 2014, 14, 12745-12762.	4.9	97
20	Quantifying transport into the lowermost stratosphere using simultaneous in-situ measurements of SF₆ and CO₂. Atmospheric Chemistry and Physics, 2009, 9, 5905-5919.	4.9	94
21	Effects of 20â€“100â€¯nm particles on liquid clouds in the clean summertime Arctic. Atmospheric Chemistry and Physics, 2016, 16, 11107-11124.	4.9	94
22	On the structural changes in the Brewer-Dobson circulation after 2000. Atmospheric Chemistry and Physics, 2011, 11, 3937-3948.	4.9	92
23	Measurements of NO, NO_y, N₂O, and O₃ during SPURT: implications for transport and chemistry in the lowermost stratosphere. Atmospheric Chemistry and Physics, 2006, 6, 1331-1350.	4.9	89
24	Radiative forcing due to changes in ozone and methane caused by the transport sector. Atmospheric Environment, 2011, 45, 387-394.	4.1	87
25	Highly resolved observations of trace gases in the lowermost stratosphere and upper troposphere from the Spurt project: an overview. Atmospheric Chemistry and Physics, 2006, 6, 283-301.	4.9	86
26	Gimballed Limb Observer for Radiance Imaging of the Atmosphere (GLORIA) scientific objectives. Atmospheric Measurement Techniques, 2014, 7, 1915-1928.	3.1	85
27	TRISTAR - a tracer in situ TDLAS for atmospheric research. Applied Physics B: Lasers and Optics, 1998, 67, 411-417.	2.2	79
28	Tracing troposphere-to-stratosphere transport above a mid-latitude deep convective system. Atmospheric Chemistry and Physics, 2004, 4, 741-756.	4.9	68
29	Multimodel assessment of the upper troposphere and lower stratosphere: Extratropics. Journal of Geophysical Research, 2010, 115, .	3.3	67
30	On the attribution of contributions of atmospheric trace gases to emissions in atmospheric model applications. Geoscientific Model Development, 2010, 3, 487-499.	3.6	65
31	Summertime observations of elevated levels of ultrafine particles in the high Arctic marine boundary layer. Atmospheric Chemistry and Physics, 2017, 17, 5515-5535.	4.9	62
32	In situ measurements of tropical cloud properties in the West African Monsoon: upper tropospheric ice clouds, Mesoscale Convective System outflow, and subvisual cirrus. Atmospheric Chemistry and Physics, 2011, 11, 5569-5590.	4.9	59
33	Validation of ACE-FTS satellite data in the upper troposphere/lower stratosphere (UTLS) using non-coincident measurements. Atmospheric Chemistry and Physics, 2008, 8, 1483-1499.	4.9	57
34	Long-range transport pathways of tropospheric source gases originating in Asia into the northern lower stratosphere during the Asian monsoon season 2012. Atmospheric Chemistry and Physics, 2016, 16, 15301-15325.	4.9	57
35	Soil HONO emissions at high moisture content are driven by microbial nitrate reduction to nitrite: tackling the HONO puzzle. ISME Journal, 2019, 13, 1688-1699.	9.8	57
36	Evidence for marine biogenic influence on summertime Arctic aerosol. Geophysical Research Letters, 2017, 44, 6460-6470.	4.0	56

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37	Title is missing!. Journal of Atmospheric Chemistry, 2001, 38, 115-132.	3.2	53
38	Tropical and extratropical tropospheric air in the lowermost stratosphere over Europe: A CO-based budget. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	53
39	Chemical and meteorological influences on the lifetime of NO₃ at a semi-rural mountain site during PARADE. Atmospheric Chemistry and Physics, 2016, 16, 4867-4883.	4.9	51
40	Particulate trimethylamine in the summertime Canadian high Arctic lower troposphere. Atmospheric Chemistry and Physics, 2017, 17, 13747-13766.	4.9	49
41	Ship emitted NO₂ in the Indian Ocean: comparison of model results with satellite data. Atmospheric Chemistry and Physics, 2009, 9, 7289-7301.	4.9	47
42	A quasi chemistry-transport model mode for EMAC. Geoscientific Model Development, 2011, 4, 195-206.	3.6	47
43	An aircraftâ€based upper troposphere lower stratosphere O₃, CO, and H₂O climatology for the Northern Hemisphere. Journal of Geophysical Research, 2010, 115, .	3.3	46
44	Investigation of the mixing layer height derived from ceilometer measurements in the Kathmandu Valley and implications for local air quality. Atmospheric Chemistry and Physics, 2017, 17, 8157-8176.	4.9	46
45	Transport timescales and tracer properties in the extratropical UTLS. Atmospheric Chemistry and Physics, 2010, 10, 7929-7944.	4.9	44
46	Variability-lifetime relationship for organic trace gases: A novel aid to compound identification and estimation of HO concentrations. Journal of Geophysical Research, 2000, 105, 20473-20486.	3.3	42
47	Evolution of aerosol properties over the rain forest in Surinam, South America, observed from aircraft during the LBA-CLAIRE 98 experiment. Journal of Geophysical Research, 2003, 108, .	3.3	42
48	High Arctic aircraft measurements characterising black carbon vertical variability in spring and summer. Atmospheric Chemistry and Physics, 2019, 19, 2361-2384.	4.9	42
49	The impact of overshooting deep convection on local transport and mixing in the tropical upper troposphere/lower stratosphere (UTLS). Atmospheric Chemistry and Physics, 2015, 15, 6467-6486.	4.9	38
50	Application of SCIAMACHY and MOPITT CO total column measurements to evaluate model results over biomass burning regions and Eastern China. Atmospheric Chemistry and Physics, 2011, 11, 6083-6114.	4.9	37
51	Satellite measurements of formaldehyde linked to shipping emissions. Atmospheric Chemistry and Physics, 2009, 9, 8223-8234.	4.9	36
52	SOUTHTRAC-GW: An Airborne Field Campaign to Explore Gravity Wave Dynamics at the Worldâ€™s Strongest Hotspot. Bulletin of the American Meteorological Society, 2021, 102, E871-E893.	3.3	36
53	Impact of the Asian monsoon on the extratropical lower stratosphere: trace gas observations during TACTS over Europe 2012. Atmospheric Chemistry and Physics, 2016, 16, 10573-10589.	4.9	34
54	Airborne in-situ measurements of vertical, seasonal and latitudinal distributions of carbon dioxide over Europe. Atmospheric Chemistry and Physics, 2008, 8, 6395-6403.	4.9	32

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55	Ship emissions measurement in the Arctic by plume intercepts of the Canadian Coast Guard icebreaker <i>Amundsen</i> from the <i>Polar 6</i> aircraft platform. Atmospheric Chemistry and Physics, 2016, 16, 7899-7916.	4.9	32
56	Observed versus simulated mountain waves over Scandinavia â€“ improvement of vertical winds, energy and momentum fluxes by enhanced model resolution?. Atmospheric Chemistry and Physics, 2017, 17, 4031-4052.	4.9	29
57	Assessing the effect of marine isoprene and ship emissions on ozone, using modelling and measurements from the South Atlantic Ocean. Environmental Chemistry, 2010, 7, 171.	1.5	26
58	Model simulations and aircraft measurements of vertical, seasonal and latitudinal O₃ and CO distributions over Europe. Atmospheric Chemistry and Physics, 2006, 6, 339-348.	4.9	25
59	Characterization of transport regimes and the polar dome during Arctic spring and summer using in situ aircraft measurements. Atmospheric Chemistry and Physics, 2019, 19, 15049-15071.	4.9	25
60	Concentrations, composition, and sources of ice-nucleating particles in the Canadian High Arctic during springÂ2016. Atmospheric Chemistry and Physics, 2019, 19, 3007-3024.	4.9	24
61	Particle production in the lowermost stratosphere by convective lifting of the tropopause. Journal of Geophysical Research, 1999, 104, 23935-23940.	3.3	23
62	In situ detection of stratosphereâ€troposphere exchange of cirrus particles in the midlatitudes. Geophysical Research Letters, 2015, 42, 949-955.	4.0	23
63	Evidence of small-scale quasi-isentropic mixing in ridges of extratropical baroclinic waves. Atmospheric Chemistry and Physics, 2019, 19, 12607-12630.	4.9	23
64	Can inertiaâ€gravity waves persistently alter the tropopause inversion layer?. Geophysical Research Letters, 2014, 41, 7822-7829.	4.0	22
65	Water vapor increase in the lower stratosphere of the Northern Hemisphere due to the Asian monsoon anticyclone observed during the TACTS/ESMVal campaigns. Atmospheric Chemistry and Physics, 2018, 18, 2973-2983.	4.9	22
66	Model evaluation of CO₂ and SF₆ in the extratropical UT/LS region. Journal of Geophysical Research, 2008, 113, .	3.3	21
67	Synoptic tracer gradients in the upper troposphere over central Canada during the Stratosphere-Troposphere Experiments by Aircraft Measurements 1998 summer campaign. Journal of Geophysical Research, 2002, 107, ACH 5-1.	3.3	20
68	Detection of lightning-produced NO in the midlatitude upper troposphere during STREAM 1998. Journal of Geophysical Research, 2001, 106, 27777-27785.	3.3	19
69	The tropopause inversion layer in baroclinic life-cycle experiments: the role of diabatic processes. Atmospheric Chemistry and Physics, 2016, 16, 541-560.	4.9	19
70	The temporal evolution of the ratio HNO3/NOyin the Arctic lower stratosphere from January to March 1997. Geophysical Research Letters, 1999, 26, 1125-1128.	4.0	18
71	Technical Note: Temporal change in averaging kernels as a source of uncertainty in trend estimates of carbon monoxide retrieved from MOPITT. Atmospheric Chemistry and Physics, 2013, 13, 11307-11316.	4.9	18
72	A quantitative analysis of stratospheric HCl, HNO₃, and O₃in the tropopause region near the subtropical jet. Geophysical Research Letters, 2014, 41, 3315-3321.	4.0	18

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73	Aircraft-based observation of meteoric material in lower-stratospheric aerosol particles between 15 and 68Â°â€‰N. Atmospheric Chemistry and Physics, 2021, 21, 989-1013.	4.9	18
74	Determination of eddy diffusivity in the lowermost stratosphere. Geophysical Research Letters, 2005, 32, .	4.0	17
75	Mixing and ageing in the polar lower stratosphere in winter 2015â€“2016. Atmospheric Chemistry and Physics, 2018, 18, 6057-6073.	4.9	17
76	The influence of the tropical rainforest on atmospheric CO and CO2 as measured by aircraft over Surinam, South America. Chemosphere, 2001, 3, 157-170.	1.2	14
77	Transport of Antarctic stratospheric strongly dehydrated air into the troposphere observed during the HALO-ESMVal campaign 2012. Atmospheric Chemistry and Physics, 2015, 15, 9143-9158.	4.9	14
78	The novel HALO mini-DOAS instrument: inferring trace gas concentrations from airborne UV/visible limb spectroscopy under all skies using the scaling method. Atmospheric Measurement Techniques, 2017, 10, 4209-4234.	3.1	13
79	TDLAS Trace Gas Measurements within Mountain Waves Over Northern Scandinavia during the POLSTAR Campaign in Early 1997. Geophysical Research Letters, 1999, 26, 303-306.	4.0	12
80	Reactive organic species in the northern extratropical lowermost stratosphere: Seasonal variability and implications for OH. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	12
81	Depletion of ozone and reservoir species of chlorine and nitrogen oxide in the lower Antarctic polar vortex measured from aircraft. Geophysical Research Letters, 2017, 44, 6440-6449.	4.0	12
82	Trace gas composition in the Asian summer monsoon anticyclone: a case study based on aircraft observations and model simulations. Atmospheric Chemistry and Physics, 2017, 17, 6091-6111.	4.9	12
83	Aircraft measurements of tracer correlations in the Arctic subvortex region during the Polar Stratospheric Aerosol Experiment (POLSTAR). Journal of Geophysical Research, 2000, 105, 24305-24313.	3.3	11
84	Airborne observation of mixing across the entrainment zone during PARADE 2011. Atmospheric Chemistry and Physics, 2016, 16, 6011-6025.	4.9	11
85	A convolution of observational and model data to estimate age of air spectra in the northern hemispheric lower stratosphere. Atmospheric Chemistry and Physics, 2020, 20, 8763-8785.	4.9	11
86	Profile information on CO from SCIAMACHY observations using cloud slicing and comparison with model simulations. Atmospheric Chemistry and Physics, 2014, 14, 1717-1732.	4.9	9
87	Vertical profiles of light absorption and scattering associated with black carbon particle fractions in the springtime Arctic above 79Â°â€‰N. Atmospheric Chemistry and Physics, 2020, 20, 10545-10563.	4.9	9
88	In situ observations of CH₂Cl₂ and CHCl₃ show efficient transport pathways for very short-lived species into the lower stratosphere via the Asian and the North American summer monsoon. Atmospheric Chemistry and Physics, 2022, 22, 2049-2077.	4.9	9
89	Chlorine partitioning in the lowermost Arctic vortex during the cold winter 2015/2016. Atmospheric Chemistry and Physics, 2019, 19, 10757-10772.	4.9	8
90	Airborne survey of trace gases and aerosols over the Southern Baltic Sea: from clean marine boundary layer to shipping corridor effect. Tellus, Series B: Chemical and Physical Meteorology, 2022, 72, 1695349.	1.6	7

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91	Composite analysis of the tropopause inversion layer in extratropical baroclinic waves. Atmospheric Chemistry and Physics, 2019, 19, 6621-6636.	4.9	6
92	Organic and inorganic bromine measurements around the extratropical tropopause and lowermost stratosphere: insights into the transport pathways and total bromine. Atmospheric Chemistry and Physics, 2021, 21, 15375-15407.	4.9	6
93	Chemical composition and source attribution of sub-micrometre aerosol particles in the summertime Arctic lower troposphere. Atmospheric Chemistry and Physics, 2021, 21, 6509-6539.	4.9	5
94	Pollution patterns in the upper troposphere over Europe and Asia observed by CARIBIC. Atmospheric Environment, 2014, 96, 245-256.	4.1	4
95	On the occurrence of strong vertical wind shear in the tropopause region: a 10-year ERA5 northern hemispheric study. Weather and Climate Dynamics, 2021, 2, 631-651.	3.5	4
96	Comparison of inorganic chlorine in the Antarctic and Arctic lowermost stratosphere by separate late winter aircraft measurements. Atmospheric Chemistry and Physics, 2021, 21, 17225-17241.	4.9	4
97	Correction to â€œAn aircraft-based upper troposphere lower stratosphere O3, CO, and H2O climatology for the Northern Hemisphereâ€. Journal of Geophysical Research, 2010, 115, .	3.3	3
98	Redistribution of total reactive nitrogen in the lowermost Arctic stratosphere during the cold winter 2015/2016. Atmospheric Chemistry and Physics, 2022, 22, 3631-3654.	4.9	3
99	<title>Intercomparison of airborne N<formula><inf><roman>2</roman></inf></formula>O measurements using tunable diode laser absorption spectroscopy and in-situ gas chromatography</title>. , 1999, 3758, 109.		2
100	A tandem approach for collocated measurements of microphysical and radiative cirrus properties. Atmospheric Measurement Techniques, 2017, 10, 3485-3498.	3.1	2
101	Contribution of Asian emissions to upper tropospheric CO over the remote Pacific. Atmospheric Chemistry and Physics, 2022, 22, 7193-7206.	4.9	2