

# Birgit Hassler

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

2,136  
citations

279487

23  
h-index

329751

37  
g-index

65  
all docs

65  
docs citations

65  
times ranked

2634  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tropospheric Ozone Assessment Report: Present-day distribution and trends of tropospheric ozone relevant to climate and global atmospheric chemistry model evaluation. <i>Elementa</i> , 2018, 6, .	1.1	240
2	Detecting recovery of the stratospheric ozone layer. <i>Nature</i> , 2017, 549, 211-218.	13.7	182
3	Estimates of ozone return dates from Chemistry-Climate Model Initiative simulations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8409-8438.	1.9	128
4	The Stratospheric Water and Ozone Satellite Homogenized (SWOOSH) database: a long-term database for climate studies. <i>Earth System Science Data</i> , 2016, 8, 461-490.	3.7	126
5	Past changes in the vertical distribution of ozone – Part 3: Analysis and interpretation of trends. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 9965-9982.	1.9	115
6	Tropospheric Ozone Assessment Report: Tropospheric ozone from 1877 to 2016, observed levels, trends and uncertainties. <i>Elementa</i> , 2019, 7, .	1.1	103
7	An update on ozone profile trends for the period 2000 to 2016. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10675-10690.	1.9	93
8	Tropospheric ozone in CMIP6 simulations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 4187-4218.	1.9	89
9	Global distribution of total ozone and lower stratospheric temperature variations. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 1421-1438.	1.9	76
10	Analysis of long-term observations of NO <sub>x</sub> and CO in megacities and application to constraining emissions inventories. <i>Geophysical Research Letters</i> , 2016, 43, 9920-9930.	1.5	69
11	Earth System Model Evaluation Tool (ESMValTool) v2.0 – an extended set of large-scale diagnostics for quasi-operational and comprehensive evaluation of Earth system models in CMIP. <i>Geoscientific Model Development</i> , 2020, 13, 3383-3438.	1.3	69
12	Technical Note: A new global database of trace gases and aerosols from multiple sources of high vertical resolution measurements. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 5403-5421.	1.9	68
13	Past changes in the vertical distribution of ozone – Part 1: Measurement techniques, uncertainties and availability. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 1395-1427.	1.2	67
14	Intercomparison of vertically resolved merged satellite ozone data sets: interannual variability and long-term trends. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 3021-3043.	1.9	62
15	Evaluating stratospheric ozone and water vapour changes in CMIP6 models from 1850 to 2100. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5015-5061.	1.9	54
16	A vertically resolved, global, gap-free ozone database for assessing or constraining global climate model simulations. <i>Earth System Science Data</i> , 2013, 5, 31-43.	3.7	53
17	Earth System Model Evaluation Tool (ESMValTool) v2.0 – technical overview. <i>Geoscientific Model Development</i> , 2020, 13, 1179-1199.	1.3	51
18	Comparison of Reanalysis and Observational Precipitation Datasets Including ERA5 and WFDE5. <i>Atmosphere</i> , 2021, 12, 1462.	1.0	51

#	ARTICLE	IF	CITATIONS
19	Uncertainty in the Response of Sudden Stratospheric Warmings and Stratosphere-Troposphere Coupling to Quadrupled CO <sub>2</sub> Concentrations in CMIP6 Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032345.	1.2	50
20	Interannual variation patterns of total ozone and lower stratospheric temperature in observations and model simulations. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 349-374.	1.9	48
21	Changes in the polar vortex: Effects on Antarctic total ozone observations at various stations. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	37
22	Uncertainties in the evolution of stratospheric ozone and implications for recent temperature changes in the tropical lower stratosphere. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	31
23	Comparison of three vertically resolved ozone data sets: climatology, trends and radiative forcings. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5533-5550.	1.9	31
24	An assessment of changing ozone loss rates at South Pole: Twenty-five years of ozonesonde measurements. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	28
25	A vertically resolved, monthly mean, ozone database from 1979 to 2100 for constraining global climate model simulations. <i>International Journal of Remote Sensing</i> , 2009, 30, 4009-4018.	1.3	24
26	A novel tropopause-related climatology of ozone profiles. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 283-299.	1.9	24
27	A global historical ozone data set and prominent features of stratospheric variability prior to 1979. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9623-9639.	1.9	18
28	An updated version of a gap-free monthly mean zonal mean ozone database. <i>Earth System Science Data</i> , 2018, 10, 1473-1490.	3.7	18
29	Representativeness of single lidar stations for zonally averaged ozone profiles, their trends and attribution to proxies. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 6427-6440.	1.9	16
30	Quantitative assessment of Southern Hemisphere ozone in chemistry-climate model simulations. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1385-1400.	1.9	13
31	Modeling the climate impact of Southern Hemisphere ozone depletion: The importance of the ozone data set. <i>Geophysical Research Letters</i> , 2014, 41, 9033-9039.	1.5	10
32	The representation of the TTL in a tropical channel version of the WRF model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2835-2848.	1.2	9
33	Spatial Coverage of Monitoring Networks: A Climate Observing System Simulation Experiment. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 3211-3228.	0.6	9
34	Revisiting ozone measurements as an indicator of tropical width. <i>Progress in Earth and Planetary Science</i> , 2018, 5, .	1.1	8
35	How Robust Are Trends in the Brewer-Dobson Circulation Derived from Observed Stratospheric Temperatures?. <i>Journal of Climate</i> , 2015, 28, 3024-3040.	1.2	7
36	Sampling bias adjustment for sparsely sampled satellite measurements applied to ACE-FTS carbonyl sulfide observations. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 2129-2138.	1.2	5

#	ARTICLE	IF	CITATIONS
37	An operational tool to quality control 2D radar reflectivity data for assimilation in COSMO-DE. International Journal of Remote Sensing, 2012, 33, 3456-3471.	1.3	3