

# Hilke Oetjen

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

3,397  
citations

249298

26  
h-index

299063

42  
g-index

71  
all docs

71  
docs citations

71  
times ranked

3516  
citing authors

#	ARTICLE	IF	CITATIONS
1	The FORUM end-to-end simulator project: architecture and results. Atmospheric Measurement Techniques, 2022, 15, 573-604.	1.2	9
2	Retrieval of Tropospheric Water Vapor From Airborne Far-Infrared Measurements: A Case Study. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	0
3	Emissivity retrievals with FORUM's end-to-end simulator: challenges and recommendations. Atmospheric Measurement Techniques, 2022, 15, 1755-1777.	1.2	4
4	Observations of the downwelling far-infrared atmospheric emission at the Zugspitze observatory. Earth System Science Data, 2021, 13, 4303-4312.	3.7	9
5	Cirrus Cloud Identification from Airborne Far-Infrared and Mid-Infrared Spectra. Remote Sensing, 2020, 12, 2097.	1.8	7
6	FORUM: Unique Far-Infrared Satellite Observations to Better Understand How Earth Radiates Energy to Space. Bulletin of the American Meteorological Society, 2020, 101, E2030-E2046.	1.7	40
7	A test of the ability of current bulk optical models to represent the radiative properties of cirrus cloud across the mid- and far-infrared. Atmospheric Chemistry and Physics, 2020, 20, 12889-12903.	1.9	9
8	The Far-Infrared Outgoing Radiation Understanding and Monitoring (Forum) Mission. ESA's 9th Earth Explorer. , 2020, , .		2
9	The infrared Fourier transform spectrometer and the infrared imager instrument concepts for the FORUM mission, ESA's 9th Earth Explorer. , 2020, , .		2
10	The Arctic and Nordic Imager as sensor concept for optical imaging in highly elliptical orbits with applications to polar meteorology. , 2019, , .		0
11	Impact of intercontinental pollution transport on North American ozone air pollution: an HTAP phase 2 multi-model study. Atmospheric Chemistry and Physics, 2017, 17, 5721-5750.	1.9	51
12	Modeling the weekly cycle of NO <sub>x</sub> and CO emissions and their impacts on O <sub>3</sub> in the Los Angeles-South Coast Air Basin during the CalNex 2010 field campaign. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1340-1360.	1.2	51
13	A joint data record of tropospheric ozone from Aura-TES and MetOp-IASI. Atmospheric Chemistry and Physics, 2016, 16, 10229-10239.	1.9	17
14	Weakening of the weekend ozone effect over California's South Coast Air Basin. Geophysical Research Letters, 2015, 42, 9457-9464.	1.5	32
15	Extending the satellite data record of tropospheric ozone profiles from Aura-TES to MetOp-IASI: characterisation of optimal estimation retrievals. Atmospheric Measurement Techniques, 2014, 7, 4223-4236.	1.2	19
16	Simulation of semi-explicit mechanisms of SOA formation from glyoxal in aerosol in a 3-D model. Atmospheric Chemistry and Physics, 2014, 14, 6213-6239.	1.9	166
17	Novel Pathways to Form Secondary Organic Aerosols: Glyoxal SOA in WRF/Chem. Springer Proceedings in Complexity, 2014, , 149-154.	0.2	0
18	The CU Airborne MAX-DOAS instrument: vertical profiling of aerosol extinction and trace gases. Atmospheric Measurement Techniques, 2013, 6, 719-739.	1.2	86

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19	Airborne MAX-DOAS measurements over California: Testing the NASA OMI tropospheric NO <sub>2</sub> product. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 7400-7413.	1.2	26
20	The Cabauw Intercomparison campaign for Nitrogen Dioxide measuring Instruments (CINDI): design, execution, and early results. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 457-485.	1.2	83
21	DOAS measurements of formaldehyde and glyoxal above a south-east Asian tropical rainforest. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 5949-5962.	1.9	49
22	Overview of the 2010 Carbonaceous Aerosols and Radiative Effects Study (CARES). <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7647-7687.	1.9	94
23	On the sodium D line emission in the terrestrial nightglow. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 74, 181-188.	0.6	19
24	Evaluation of stratospheric chlorine chemistry for the Arctic spring 2005 using modelled and measured OClO column densities. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 689-703.	1.9	18
25	Hydrogen oxide photochemistry in the northern Canadian spring time boundary layer. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	11
26	Reactive Halogens in the Marine Boundary Layer (RHAMBLe): the tropical North Atlantic experiments. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1031-1055.	1.9	66
27	Measurements and modelling of molecular iodine emissions, transport and photodestruction in the coastal region around Roscoff. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11823-11838.	1.9	34
28	The chemistry of OH and HO <sub>2</sub> radicals in the boundary layer over the tropical Atlantic Ocean. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1555-1576.	1.9	156
29	Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 169-199.	1.9	130
30	Iodine-mediated coastal particle formation: an overview of the Reactive Halogens in the Marine Boundary Layer (RHAMBLe) Roscoff coastal study. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2975-2999.	1.9	125
31	Measurements of iodine monoxide at a semi polluted coastal location. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3645-3663.	1.9	19
32	Measurement and modelling of tropospheric reactive halogen species over the tropical Atlantic Ocean. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4611-4624.	1.9	161
33	Corrigendum to "Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools" published in <i>Atmos. Chem. Phys.</i> , 10, 169-199, 2010. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 563-563.	1.9	5
34	DOAS observations of formaldehyde and its impact on the HO <sub>x</sub> balance in the tropical Atlantic marine boundary layer. <i>Journal of Atmospheric Chemistry</i> , 2010, 66, 167-178.	1.4	17
35	Seasonal characteristics of tropical marine boundary layer air measured at the Cape Verde Atmospheric Observatory. <i>Journal of Atmospheric Chemistry</i> , 2010, 67, 87-140.	1.4	97
36	Measurements of nitrogen oxides from Hudson Bay: Implications for NO <sub>x</sub> release from snow and ice covered surfaces. <i>Atmospheric Environment</i> , 2010, 44, 2971-2979.	1.9	6

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37	Intercomparison of slant column measurements of NO <sub>2</sub> and O <sub>4</sub> by MAX-DOAS and zenith-sky UV and visible spectrometers. Atmospheric Measurement Techniques, 2010, 3, 1629-1646.	1.2	106
38	Evidence of reactive iodine chemistry in the Arctic boundary layer. Journal of Geophysical Research, 2010, 115, .	3.3	76
39	High bromine oxide concentrations in the semi-polluted boundary layer. Atmospheric Environment, 2009, 43, 3811-3818.	1.9	30
40	Reactive iodine species in a semi-polluted environment. Geophysical Research Letters, 2009, 36, .	1.5	73
41	Extensive halogen-mediated ozone destruction over the tropical Atlantic Ocean. Nature, 2008, 453, 1232-1235.	13.7	432
42	The 2005 and 2006 DANDELIONS NO <sub>2</sub> and aerosol intercomparison campaigns. Journal of Geophysical Research, 2008, 113, .	3.3	116
43	Observations of iodine monoxide columns from satellite. Atmospheric Chemistry and Physics, 2008, 8, 637-653.	1.9	135
44	Comparison of box-air-mass-factors and radiances for Multiple-Axis Differential Optical Absorption Spectroscopy (MAX-DOAS) geometries calculated from different UV/visible radiative transfer models. Atmospheric Chemistry and Physics, 2007, 7, 1809-1833.	1.9	168
45	Simultaneous global observations of glyoxal and formaldehyde from space. Geophysical Research Letters, 2006, 33, .	1.5	265
46	An intercomparison campaign of ground-based UV-visible measurements of NO <sub>2</sub> , BrO, and OCIO slant columns: Methods of analysis and results for NO <sub>2</sub> . Journal of Geophysical Research, 2005, 110, .	3.3	73
47	MAX-DOAS measurements of atmospheric trace gases in Ny-Ålesund - Radiative transfer studies and their application. Atmospheric Chemistry and Physics, 2004, 4, 955-966.	1.9	251