

Björn-Martin Sinnhuber

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2207201/publications.pdf>

Version: 2024-02-01

63
papers

2,092
citations

236612

25
h-index

288905

40
g-index

93
all docs

93
docs citations

93
times ranked

1762
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenge of modelling GLORIA observations of upper troposphere–lowermost stratosphere trace gas and cloud distributions at high latitudes: a case study with state-of-the-art models. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2843-2870.	1.9	0
2	Redistribution of total reactive nitrogen in the lowermost Arctic stratosphere during the cold winter 2015/2016. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3631-3654.	1.9	3
3	Biomass burning pollution in the South Atlantic upper troposphere: GLORIA trace gas observations and evaluation of the CAMS model. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3675-3691.	1.9	3
4	SOUTHTRAC-GW: An Airborne Field Campaign to Explore Gravity Wave Dynamics at the World's Strongest Hotspot. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E871-E893.	1.7	36
5	Pollution trace gases C ₂ H ₆ , C ₂ H ₂ , HCOOH, and PAN in the North Atlantic UTLS: observations and simulations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6213-6232.	1.9	6
6	The Michelson Interferometer for Passive Atmospheric Sounding global climatology of BrONO ₂ 2002–2012: a test for stratospheric bromine chemistry. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 18433-18464.	1.9	1
7	Unusual chlorine partitioning in the 2015/16 Arctic winter lowermost stratosphere: observations and simulations. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8311-8338.	1.9	10
8	Nitrification of the lowermost stratosphere during the exceptionally cold Arctic winter 2015–2016. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 13681-13699.	1.9	6
9	MIPAS observations of volcanic sulfate aerosol and sulfur dioxide in the stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1217-1239.	1.9	24
10	Mixing and ageing in the polar lower stratosphere in winter 2015–2016. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 6057-6073.	1.9	17
11	Widespread polar stratospheric ice clouds in the 2015–2016 Arctic winter – implications for ice nucleation. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15623-15641.	1.9	18
12	Mesoscale fine structure of a tropopause fold over mountains. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15643-15667.	1.9	15
13	Airborne limb-imaging measurements of temperature, HNO ₃ , O ₃ , ClONO ₂ , H ₂ O and CFC-12 during the Arctic winter 2015/2016: characterization, in situ validation and comparison to Aura/MLS. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 4737-4756.	1.2	23
14	Polar boundary layer bromine explosion and ozone depletion events in the chemistry–climate model EMAC v2.52: implementation and evaluation of AirSnow algorithm. <i>Geoscientific Model Development</i> , 2018, 11, 1115-1131.	1.3	28
15	Brominated VLSLs and their influence on ozone under a changing climate. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11313-11329.	1.9	20
16	Diurnal variations of BrONO ₂ observed by MIPAS-B at midlatitudes and in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 14631-14643.	1.9	3
17	Global carbonyl sulfide (OCS) measured by MIPAS/Envisat during 2002–2012. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 2631-2652.	1.9	25
18	Denitrification, dehydration and ozone loss during the 2015/2016 Arctic winter. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12893-12910.	1.9	35

#	ARTICLE	IF	CITATIONS
19	Errors induced by different approximations in handling horizontal atmospheric inhomogeneities in MIPAS/ENVISAT retrievals. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 5499-5508.	1.2	4
20	A multi-model intercomparison of halogenated very short-lived substances (TransCom-VSLS): linking oceanic emissions and tropospheric transport for a reconciled estimate of the stratospheric source gas injection of bromine. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9163-9187.	1.9	51
21	Chemistryâ€Climate Interactions of Stratospheric and Mesospheric Ozone in EMAC Long-Term Simulations with Different Boundary Conditions for CO ₂ , CH ₄ , N ₂ O, and ODS. <i>Atmosphere - Ocean</i> , 2015, 53, 140-152.	0.6	9
22	Simulating the impact of emissions of brominated very short lived substances on past stratospheric ozone trends. <i>Geophysical Research Letters</i> , 2015, 42, 2449-2456.	1.5	30
23	Tropical sources and sinks of carbonyl sulfide observed from space. <i>Geophysical Research Letters</i> , 2015, 42, 10,082.	1.5	44
24	Partitioning and budget of inorganic and organic chlorine species observed by MIPAS-B and TELIS in the Arctic in March 2011. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8065-8076.	1.9	13
25	Modelling marine emissions and atmospheric distributions of halocarbons and dimethyl sulfide: the influence of prescribed water concentration vs. prescribed emissions. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11753-11772.	1.9	28
26	Multistation intercomparison of column-averaged methane from NDACC and TCCON: impact of dynamical variability. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 4081-4101.	1.2	22
27	Radiative and dynamical contributions to past and future Arctic stratospheric temperature trends. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1679-1688.	1.9	26
28	Results of the preparatory study â€PREMIER Analysis of Campaign Dataâ€. <i>Annals of Geophysics</i> , 2014, , .	0.5	1
29	Contribution of very short-lived substances to stratospheric bromine loading: uncertainties and constraints. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1203-1219.	1.9	50
30	Data Assimilation and Model Calculations to Study Chemistry Climate Interactions in the Stratosphere. <i>Springer Atmospheric Sciences</i> , 2013, , 149-170.	0.4	1
31	The MIPAS HOCl climatology. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1965-1977.	1.9	19
32	Observed and simulated time evolution of HCl, ClONO ₂ , and HF total column abundances. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3527-3556.	1.9	72
33	Arctic winter 2010/2011 at the brink of an ozone hole. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	88
34	Impact of deep convection and dehydration on bromine loading in the upper troposphere and lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2671-2687.	1.9	52
35	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
36	Aircraft measurements and model simulations of stratospheric ozone and N ₂ O: implications for chemistry and transport processes in the models. <i>Journal of Atmospheric Chemistry</i> , 2010, 66, 41-64.	1.4	3

#	ARTICLE	IF	CITATIONS
37	Attribution of stratospheric ozone trends to chemistry and transport: a modelling study. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 12073-12089.	1.9	31
38	Odin/OSIRIS observations of stratospheric BrO: Retrieval methodology, climatology, and inferred BrO. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	36
39	A long-term stratospheric ozone data set from assimilation of satellite observations: High-latitude ozone anomalies. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	32
40	Testing convective parameterizations with tropical measurements of HNO ₃ , CO, H ₂ O, and O ₃ : Implications for the water vapor budget. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	61
41	The Ozone Hole Breakup in September 2002 as Seen by SCIAMACHY on ENVISAT. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 721-734.	0.6	66
42	Retrieval of stratospheric NO ₃ vertical profiles from SCIAMACHY lunar occultation measurement over the Antarctic. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	14
43	Global observations of stratospheric bromine monoxide from SCIAMACHY. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	79
44	Frank S. Marzano and Guido Visconti: Remote Sensing of Atmosphere and Ocean from Space: Models, Instruments and Techniques. <i>Journal of Atmospheric Chemistry</i> , 2004, 48, 105-106.	1.4	1
45	Observational evidence of rapid chlorine activation by mountain waves above northern Scandinavia. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	21
46	Total ozone during the unusual Antarctic winter of 2002. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	93
47	Dynamical control of NH and SH winter/spring total ozone from GOME observations in 1995-2002. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	92
48	Modeling the effect of denitrification on Arctic ozone depletion during winter 1999/2000. <i>Journal of Geophysical Research</i> , 2002, 107, SOL 65-1-SOL 65-18.	3.3	42
49	Chemical depletion of Arctic ozone in winter 1999/2000. <i>Journal of Geophysical Research</i> , 2002, 107, SOL 18-1.	3.3	95
50	Pointing and temperature retrieval from millimeter-submillimeter limb soundings. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 10-1.	3.3	14
51	Tracer-based determination of vortex descent in the 1999/2000 Arctic winter. <i>Journal of Geophysical Research</i> , 2002, 107, SOL 22-1.	3.3	27
52	Comparison of measurements and model calculations of stratospheric bromine monoxide. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 11-1.	3.3	62
53	Vortexwide denitrification of the Arctic polar stratosphere in winter 1999/2000 determined by remote observations. <i>Journal of Geophysical Research</i> , 2002, 107, SOL 48-1-SOL 48-11.	3.3	23
54	Intercomparison of BrO measurements from ERS-2 GOME, ground-based and balloon platforms. <i>Advances in Space Research</i> , 2002, 29, 1661-1666.	1.2	80

#	ARTICLE	IF	CITATIONS
55	Title is missing!. Journal of Atmospheric Chemistry, 2002, 43, 75-106.	1.4	22
56	Comparison of measured and modeled stratospheric BrO: Implications for the total amount of stratospheric bromine. Geophysical Research Letters, 2000, 27, 3695-3698.	1.5	42
57	First profile measurements of tropospheric BrO. Geophysical Research Letters, 2000, 27, 2921-2924.	1.5	95
58	Lower stratospheric organic and inorganic bromine budget for the Arctic winter 1998/99. Geophysical Research Letters, 2000, 27, 3305-3308.	1.5	90
59	Large loss of total ozone during the Arctic winter of 1999/2000. Geophysical Research Letters, 2000, 27, 3473-3476.	1.5	73
60	Interpretation of Mid-Stratospheric Arctic Ozone Measurements Using a Photochemical Box-Model. Journal of Atmospheric Chemistry, 1999, 34, 281-290.	1.4	10
61	Chemical ozone depletion during Arctic winter 1997/98 derived from ground based millimeter-wave observations. Geophysical Research Letters, 1999, 26, 599-602.	1.5	9
62	Ground based millimeter-wave observations of Arctic chlorine activation during winter and spring 1996/97. Geophysical Research Letters, 1998, 25, 3331-3334.	1.5	19
63	Ground based millimeter-wave observations of Arctic Ozone depletion during winter and spring of 1996/97. Geophysical Research Letters, 1998, 25, 3327-3330.	1.5	24