Justus Notholt

List of Publications by Year
in descending order

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257 papers	12,831 citations	30070 54 h-index	39675 94 g-index
331 all docs	331 docs citations	331 times ranked	7085 citing authors

#	Article	IF	Citations
1	The Total Carbon Column Observing Network. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 2087-2112.	3.4	884
2	Toward accurate CO₂and CH₄observations from GOSAT. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	355
3	The ACOS CO₂ retrieval algorithm â€“ Part II: Global X_{CO₂} data characterization. Atmospheric Measurement Techniques, 2012, 5, 687-707.	3.1	320
4	A method for evaluating bias in global measurements of CO₂ total columns from space. Atmospheric Chemistry and Physics, 2011, 11, 12317-12337.	4.9	279
5	Importance of secondary sources in the atmospheric budgets of formic and acetic acids. Atmospheric Chemistry and Physics, 2011, 11, 1989-2013.	4.9	266
6	Stratospheric aerosol-Observations, processes, and impact on climate. Reviews of Geophysics, 2016, 54, 278-335.	23.0	265
7	Improvement of the retrieval algorithm for GOSAT SWIR XCO₂ and XCH₄ and their validation using TCCON data. Atmospheric Measurement Techniques, 2013, 6, 1533-1547.	3.1	261
8	Comparisons of the Orbiting Carbon Observatory-2 (OCO-2) <i>X</i>_{CO₂} measurements with TCCON. Atmospheric Measurement Techniques, 2017, 10, 2209-2238.	3.1	252
9	Atmospheric methane and carbon dioxide from SCIAMACHY satellite data: initial comparison with chemistry and transport models. Atmospheric Chemistry and Physics, 2005, 5, 941-962.	4.9	238
10	Estimating global and North American methane emissions with high spatial resolution using GOSAT satellite data. Atmospheric Chemistry and Physics, 2015, 15, 7049-7069.	4.9	225
11	Preliminary validation of column-averaged volume mixing ratios of carbon dioxide and methane retrieved from GOSAT short-wavelength infrared spectra. Atmospheric Measurement Techniques, 2011, 4, 1061-1076.	3.1	217
12	Prolonged stratospheric ozone loss in the 1995â€“96 Arctic winter. Nature, 1997, 389, 835-838.	27.8	216
13	Methane observations from the Greenhouse Gases Observing SATellite: Comparison to groundâ€based TCCON data and model calculations. Geophysical Research Letters, 2011, 38, .	4.0	211
14	Frost flowers on sea ice as a source of sea salt and their influence on tropospheric halogen chemistry. Geophysical Research Letters, 2004, 31, .	4.0	202
15	Tropical methane emissions: A revised view from SCIAMACHY onboard ENVISAT. Geophysical Research Letters, 2008, 35, .	4.0	199
16	Improved retrievals of carbon dioxide from Orbiting Carbon Observatory-2 with the version 8 ACOS algorithm. Atmospheric Measurement Techniques, 2018, 11, 6539-6576.	3.1	188
17	Dynamic Processes Governing Lower-Tropospheric HDO/H ₂ O Ratios as Observed from Space and Ground. Science, 2009, 325, 1374-1377.	12.6	187
18	Atmospheric hydrogen cyanide (HCN): Biomass burning source, ocean sink?. Geophysical Research Letters, 2000, 27, 357-360.	4.0	159

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19	Retrieval of atmospheric CO₂with enhanced accuracy and precision from SCIAMACHY: Validation with FTS measurements and comparison with model results. Journal of Geophysical Research, 2011, 116, .	3.3	153
20	Three years of greenhouse gas column-averaged dry air mole fractions retrieved from satellite â€“ Part 1: Carbon dioxide. Atmospheric Chemistry and Physics, 2008, 8, 3827-3853.	4.9	146
21	Atmospheric carbon dioxide retrieved from the Greenhouse gases Observing SATellite (GOSAT): Comparison with groundâ€based TCCON observations and GEOSâ€Chem model calculations. Journal of Geophysical Research, 2012, 117, .	3.3	139
22	Continuous day and night aerosol optical depth observations in the Arctic between 1991 and 1999. Journal of Geophysical Research, 2002, 107, AAC 6-1-AAC 6-13.	3.3	138
23	Increased Northern Hemispheric carbon monoxide burden in the troposphere in 2002 and 2003 detected from the ground and from space. Atmospheric Chemistry and Physics, 2005, 5, 563-573.	4.9	131
24	Calibration of TCCON column-averaged CO₂: the first aircraft campaign over European TCCON sites. Atmospheric Chemistry and Physics, 2011, 11, 10765-10777.	4.9	120
25	Processâ€evaluation of tropospheric humidity simulated by general circulation models using water vapor isotopologues: 1. Comparison between models and observations. Journal of Geophysical Research, 2012, 117, .	3.3	114
26	The Greenhouse Gas Climate Change Initiative (GHG-CCI): Comparison and quality assessment of near-surface-sensitive satellite-derived CO2 and CH4 global data sets. Remote Sensing of Environment, 2015, 162, 344-362.	11.0	112
27	Recent Northern Hemisphere stratospheric HCl increase due to atmospheric circulation changes. Nature, 2014, 515, 104-107.	27.8	110
28	Trend analysis of greenhouse gases over Europe measured by a network of ground-based remote FTIR instruments. Atmospheric Chemistry and Physics, 2008, 8, 6719-6727.	4.9	109
29	First direct observation of the atmospheric CO₂ year-to-year increase from space. Atmospheric Chemistry and Physics, 2007, 7, 4249-4256.	4.9	108
30	A multi-year methane inversion using SCIAMACHY, accounting for systematic errors using TCCON measurements. Atmospheric Chemistry and Physics, 2014, 14, 3991-4012.	4.9	106
31	Comparisons between SCIAMACHY and ground-based FTIR data for total columns of CO, CH₄, CO₂ and N₂O. Atmospheric Chemistry and Physics, 2006, 6, 1953-1976.	4.9	103
32	Enhanced Upper Tropical Tropospheric COS: Impact on the Stratospheric Aerosol Layer. Science, 2003, 300, 307-310.	12.6	98
33	The importance of transport model uncertainties for the estimation of CO₂ sources and sinks using satellite measurements. Atmospheric Chemistry and Physics, 2010, 10, 9981-9992.	4.9	98
34	The imprint of surface fluxes and transport on variations in total column carbon dioxide. Biogeosciences, 2012, 9, 875-891.	3.3	98
35	Formation of HNO2 on aerosol surfaces during foggy periods in the presence of NO and NO2. Atmospheric Environment Part A General Topics, 1992, 26, 211-217.	1.3	95
36	Evaluation of tropospheric and stratospheric ozone trends over Western Europe from ground-based FTIR network observations. Atmospheric Chemistry and Physics, 2008, 8, 6865-6886.	4.9	95

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37	Validation of ACE-FTS v2.2 measurements of HCl, HF, CCl₃F and CCl₂F₂ using space-, balloon- and ground-based instrument observations. Atmospheric Chemistry and Physics, 2008, 8, 6199-6221.	4.9	91
38	Long-term trends of inorganic chlorine from ground-based infrared solar spectra: Past increases and evidence for stabilization. Journal of Geophysical Research, 2003, 108, .	3.3	86
39	Atmospheric greenhouse gases retrieved from SCIAMACHY: comparison to ground-based FTS measurements and model results. Atmospheric Chemistry and Physics, 2012, 12, 1527-1540.	4.9	86
40	Global CO₂fluxes inferred from surface air-sample measurements and from TCCON retrievals of the CO₂total column. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	85
41	Side by side measurements of CO₂ by ground-based Fourier transform spectrometry (FTS). Tellus, Series B: Chemical and Physical Meteorology, 2022, 62, 749.	1.6	84
42	Satellite-inferred European carbon sink larger than expected. Atmospheric Chemistry and Physics, 2014, 14, 13739-13753.	4.9	83
43	A quantitative assessment of the 1998 carbon monoxide emission anomaly in the Northern Hemisphere based on total column and surface concentration measurements. Journal of Geophysical Research, 2004, 109, .	3.3	82
44	Consistent evaluation of ACOS-GOSAT, BESD-SCIAMACHY, CarbonTracker, and MACC through comparisons to TCCON. Atmospheric Measurement Techniques, 2016, 9, 683-709.	3.1	80
45	A DOAS study on the origin of nitrous acid at urban and non-urban sites. Atmospheric Environment, 1996, 30, 175-180.	4.1	79
46	Topographic Mapping of the German Tidal Flats Analyzing SAR Images With the Waterline Method. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 1019-1030.	6.3	77
47	Validation of ACE-FTS N₂O measurements. Atmospheric Chemistry and Physics, 2008, 8, 4759-4786.	4.9	76
48	Trends of ozone total columns and vertical distribution from FTIR observations at eight NDACC stations around the globe. Atmospheric Chemistry and Physics, 2015, 15, 2915-2933.	4.9	76
49	Observed and simulated time evolution of HCl, ClONO₂, and HF total column abundances. Atmospheric Chemistry and Physics, 2012, 12, 3527-3556.	4.9	72
50	A scientific algorithm to simultaneously retrieve carbon monoxide and methane from TROPOMI onboard Sentinel-5 Precursor. Atmospheric Measurement Techniques, 2019, 12, 6771-6802.	3.1	71
51	The Greenhouse Gas Climate Change Initiative (GHG-CCI): comparative validation of GHG-CCI SCIAMACHY/ENVISAT and TANSO-FTS/GOSAT CO₂ and CH₄ retrieval algorithm products with measurements from the TCCON. Atmospheric Measurement Techniques, 2014, 7, 1723-1744.	3.1	70
52	Ground-based remote sensing of tropospheric water vapour isotopologues within the project MUSICA. Atmospheric Measurement Techniques, 2012, 5, 3007-3027.	3.1	69
53	TROPOMIâ€“Sentinel-5 Precursor formaldehyde validation using an extensive network of ground-based Fourier-transform infrared stations. Atmospheric Measurement Techniques, 2020, 13, 3751-3767.	3.1	66
54	Validation of MIPAS ClONO₂ measurements. Atmospheric Chemistry and Physics, 2007, 7, 257-281.	4.9	65

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55	Validation of NO₂ and NO from the Atmospheric Chemistry Experiment (ACE). Atmospheric Chemistry and Physics, 2008, 8, 5801-5841.	4.9	64
56	Assessing 5 years of GOSAT Proxy XCH₄ data and associated uncertainties. Atmospheric Measurement Techniques, 2015, 8, 4785-4801.	3.1	64
57	A tropical West Pacific OH minimum and implications for stratospheric composition. Atmospheric Chemistry and Physics, 2014, 14, 4827-4841.	4.9	60
58	Lateral carbon fluxes and CO₂ outgassing from a tropical peat-draining river. Biogeosciences, 2015, 12, 5967-5979.	3.3	59
59	Seasonal variations of atmospheric trace gases in the high Arctic at 79Â°N. Journal of Geophysical Research, 1997, 102, 12855-12861.	3.3	58
60	Validation of methane and carbon monoxide from Sentinel-5 Precursor using TCCON and NDACC-IRWG stations. Atmospheric Measurement Techniques, 2021, 14, 6249-6304.	3.1	57
61	Latitudinal variations of trace gas concentrations in the free troposphere measured by solar absorption spectroscopy during a ship cruise. Journal of Geophysical Research, 2000, 105, 1337-1349.	3.3	56
62	An evaluation of IASI-NH₃ with ground-based Fourier transform infrared spectroscopy measurements. Atmospheric Chemistry and Physics, 2016, 16, 10351-10368.	4.9	56
63	Calibration of column-averaged CH₄ over European TCCON FTS sites with airborne in-situ measurements. Atmospheric Chemistry and Physics, 2012, 12, 8763-8775.	4.9	55
64	Lidar measurement of planetary boundary layer height and comparison with microwave profiling radiometer observation. Atmospheric Measurement Techniques, 2012, 5, 1965-1972.	3.1	54
65	Carbon monoxide (CO) and ethane (C₂H₆) trends from ground-based solar FTIR measurements at six European stations, comparison and sensitivity analysis with the EMEP model. Atmospheric Chemistry and Physics, 2011, 11, 9253-9269.	4.9	53
66	A decade of GOSAT Proxy satellite CH₄ observations. Earth System Science Data, 2020, 12, 3383-3412.	9.9	53
67	Global satellite observations of column-averaged carbon dioxide and methane: The GHG-CCI XCO2 and XCH4 CRDP3 data set. Remote Sensing of Environment, 2017, 203, 276-295.	11.0	52
68	Validation of the CrIS fast physical NH₃ retrieval with ground-based FTIR. Atmospheric Measurement Techniques, 2017, 10, 2645-2667.	3.1	52
69	COVIDâ€19 Crisis Reduces Free Tropospheric Ozone Across the Northern Hemisphere. Geophysical Research Letters, 2021, 48, e2020GL091987.	4.0	51
70	An upper tropospheric humidity data set from operational satellite microwave data. Journal of Geophysical Research, 2008, 113, .	3.3	50
71	Validation of version-4.61 methane and nitrous oxide observed by MIPAS. Atmospheric Chemistry and Physics, 2009, 9, 413-442.	4.9	50
72	Long-term tropospheric formaldehyde concentrations deduced from ground-based fourier transform solar infrared measurements. Atmospheric Chemistry and Physics, 2009, 9, 7131-7142.	4.9	49

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73	Integrated water vapor above Ny Ã…lesund, Spitsbergen: a multi-sensor intercomparison. Atmospheric Chemistry and Physics, 2010, 10, 1215-1226.	4.9	48
74	Effects of atmospheric light scattering on spectroscopic observations of greenhouse gases from space. Part 2: Algorithm intercomparison in the GOSAT data processing for CO₂ retrievals over TCCON sites. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1493-1512.	3.3	46
75	Modeling impacts of geomagnetic field variations on middle atmospheric ozone responses to solar proton events on long timescales. Journal of Geophysical Research, 2008, 113, .	3.3	45
76	Validation of IASI FORLI carbon monoxide retrievals using FTIR data from NDACC. Atmospheric Measurement Techniques, 2012, 5, 2751-2761.	3.1	45
77	HDO/H₂O ratio retrievals from GOSAT. Atmospheric Measurement Techniques, 2013, 6, 599-612.	3.1	45
78	Carbon dioxide retrieval from OCO-2 satellite observations using the RemoTeC algorithm and validation with TCCON measurements. Atmospheric Measurement Techniques, 2018, 11, 3111-3130.	3.1	45
79	A cloud filtering method for microwave upper tropospheric humidity measurements. Atmospheric Chemistry and Physics, 2007, 7, 5531-5542.	4.9	44
80	Investigating the performance of a greenhouse gas observatory in Hefei, China. Atmospheric Measurement Techniques, 2017, 10, 2627-2643.	3.1	44
81	Interannual to Diurnal Variations in Tropical and Subtropical Deep Convective Clouds and Convective Overshooting from Seven Years of AMSU-B Measurements. Journal of Climate, 2008, 21, 4168-4189.	3.2	43
82	Effects of atmospheric light scattering on spectroscopic observations of greenhouse gases from space: Validation of PPDFâ€based CO₂ retrievals from GOSAT. Journal of Geophysical Research, 2012, 117, .	3.3	42
83	The covariation of Northern Hemisphere summertime CO₂ with surface temperature in boreal regions. Atmospheric Chemistry and Physics, 2013, 13, 9447-9459.	4.9	42
84	Simulations of column-averaged CO₂ and CH₄ using the NIES TM with a hybrid sigma-isentropic (Ïƒ-Î¸) vertical coordinate. Atmospheric Chemistry and Physics, 2013, 13, 1713-1732.	4.9	42
85	Ozone seasonal evolution and photochemical production regime in the polluted troposphere in eastern China derived from high-resolution Fourier transform spectrometry (FTS) observations. Atmospheric Chemistry and Physics, 2018, 18, 14569-14583.	4.9	42
86	Ground-based observations of Arctic O3loss during spring and summer 1997. Journal of Geophysical Research, 1999, 104, 26497-26510.	3.3	41
87	Total Column Carbon Observing Network (TCCON). , 2009, , .		41
88	Bias corrections of GOSAT SWIR XCO₂ and XCH₄ with TCCON data and their evaluation using aircraft measurement data. Atmospheric Measurement Techniques, 2016, 9, 3491-3512.	3.1	40
89	Using XCO₂ retrievals for assessing the long-term consistency of NDACC/FTIR data sets. Atmospheric Measurement Techniques, 2015, 8, 1555-1573.	3.1	39
90	Influence of tropospheric SO2emissions on particle formation and the stratospheric humidity. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	38

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91	Tropospheric CH₄ signals as observed by NDACC FTIR at globally distributed sites and comparison to GAW surface in situ measurements. Atmospheric Measurement Techniques, 2014, 7, 2337-2360.	3.1	38
92	Ground-based infrared spectroscopic measurements of carbonyl sulfide: Free tropospheric trends from a 24-year time series of solar absorption measurements. Journal of Geophysical Research, 2002, 107, ACH 24-1.	3.3	37
93	Conversion of mesospheric HCl into active chlorine during the solar proton event in July 2000 in the northern polar region. Journal of Geophysical Research, 2009, 114, .	3.3	37
94	The ground-based MW radiometer OZORAM on Spitsbergen â€“ description and status of stratospheric and mesospheric O₃-measurements. Atmospheric Measurement Techniques, 2010, 3, 1533-1545.	3.1	37
95	NDACC harmonized formaldehyde time series from 21 FTIR stations covering a wide range of column abundances. Atmospheric Measurement Techniques, 2018, 11, 5049-5073.	3.1	37
96	Determination of the isotopic abundances of heavy O3as observed in Arctic ground-based FTIR-spectra. Geophysical Research Letters, 1996, 23, 551-554.	4.0	36
97	The Moon as a light source for FTIR measurements of stratospheric trace gases during the polar night: Application for HNO3in the Arctic. Journal of Geophysical Research, 1994, 99, 3607.	3.3	35
98	On the use of HF as a reference for the comparison of stratospheric observations and models. Journal of Geophysical Research, 1997, 102, 12901-12919.	3.3	35
99	Seasonal and latitudinal variations of column averaged volume-mixing ratios of atmospheric CO2. Geophysical Research Letters, 2005, 32, .	4.0	35
100	Comparison of Arctic and Antarctic trace gas column abundances from ground-based Fourier transform infrared spectrometry. Journal of Geophysical Research, 1997, 102, 12863-12869.	3.3	34
101	Annual variation of strato-mesospheric carbon monoxide measured by ground-based Fourier transform infrared spectrometry. Atmospheric Chemistry and Physics, 2007, 7, 1305-1312.	4.9	34
102	Global land mapping of satellite-observed CO₂ total columns using spatio-temporal geostatistics. International Journal of Digital Earth, 2017, 10, 426-456.	3.9	33
103	Retrieval of ammonia from ground-based FTIR solar spectra. Atmospheric Chemistry and Physics, 2015, 15, 12789-12803.	4.9	32
104	FTIR time series of stratospheric NO₂ over Hefei, China, and comparisons with OMI and GEOS-Chem model data. Optics Express, 2019, 27, A1225.	3.4	32
105	Validation of five years (2003â€“2007) of SCIAMACHY CO total column measurements using ground-based spectrometer observations. Atmospheric Measurement Techniques, 2010, 3, 1457-1471.	3.1	31
106	An uncertainty budget for ground-based Fourier transform infrared column measurements of HCl, HF, N2O, and HNO3deduced from results of side-by-side instrument intercomparisons. Journal of Geophysical Research, 1997, 102, 8867-8873.	3.3	30
107	Observation of strato-mesospheric CO above Kiruna with ground-based microwave radiometry â€“ retrieval and satellite comparison. Atmospheric Measurement Techniques, 2011, 4, 2389-2408.	3.1	30
108	Sources of atmospheric mercury in the tropics: continuous observations at a coastal site in Suriname. Atmospheric Chemistry and Physics, 2012, 12, 7391-7397.	4.9	30

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109	Nitrous oxide and methane in two tropical estuaries in a peat-dominated region of northwestern Borneo. Biogeosciences, 2016, 13, 2415-2428.	3.3	30
110	A spectroscopic study of the equilibrium NO2 + NO3 + M 2 N2O5 + M and the kinetics of the O3/N2O5/NO3/NO2/ air system. International Journal of Chemical Kinetics, 1992, 24, 51-65.	1.6	29
111	stratospheric trace gas concentrations in the Arctic polar night derived by FTIRâ€spectroscopy with the Moon as IR light source. Geophysical Research Letters, 1993, 20, 2059-2062.	4.0	29
112	Total column densities of tropospheric and stratospheric trace gases in the undisturbed Arctic summer atmosphere. Journal of Atmospheric Chemistry, 1995, 20, 311-332.	3.2	28
113	Direct thermal radiative forcing of tropospheric aerosol in the Arctic measured by ground based infrared spectrometry. Geophysical Research Letters, 2005, 32, .	4.0	28
114	Derivation of tropospheric methane from TCCON CH₄ and HF total column observations. Atmospheric Measurement Techniques, 2014, 7, 2907-2918.	3.1	28
115	Intercomparison of low- and high-resolution infrared spectrometers for ground-based solar remote sensing measurements of total column concentrations of CO₂, CH₄, and CO. Atmospheric Measurement Techniques, 2020, 13, 4791-4839.	3.1	28
116	First ground-based FTIR observations of methane in the inner tropics over several years. Atmospheric Chemistry and Physics, 2010, 10, 7231-7239.	4.9	27
117	Characterizing model errors in chemical transport modeling of methane: impact of model resolution in versions v9-02 of GEOS-Chem and v35j of its adjoint model. Geoscientific Model Development, 2020, 13, 3839-3862.	3.6	27
118	The role of photo- and thermal degradation for CO₂ and CO fluxes in an arid ecosystem. Biogeosciences, 2015, 12, 4161-4174.	3.3	26
119	Detection and attribution of wildfire pollution in the Arctic and northern midlatitudes using a network of Fourier-transform infrared spectrometers and GEOS-Chem. Atmospheric Chemistry and Physics, 2020, 20, 12813-12851.	4.9	26
120	Tropospheric water vapour isotopologue data (H₂¹⁶O,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 Earth System Science Data, 2017, 9, 15-29.	9.9	26
121	Automated ground-based remote sensing measurements of greenhouse gases at the BiaÅ‚ystok site in comparison with collocated in situ measurements and model data. Atmospheric Chemistry and Physics, 2012, 12, 6741-6755.	4.9	25
122	Technical Note: Latitude-time variations of atmospheric column-average dry air mole fractions of CO₂, CH₄ and N₂O. Atmospheric Chemistry and Physics, 2012, 12, 7767-7777.	4.9	25
123	Toward High Precision XCO‹sub›2‹/sub›Retrievals From TanSat Observations: Retrieval Improvement and Validation Against TCCON Measurements. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032794.	3.3	25
124	Passive Polarimetric Microwave Signatures Observed Over Antarctica. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 1059-1075.	6.3	24
125	Intertidal Topographic Maps and Morphological Changes in the German Wadden Sea between 1996â€“1999 and 2006â€“2009 from the Waterline Method and SAR Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3210-3224.	4.9	24
126	Seasonal variability of stratospheric methane: implications for constraining tropospheric methane budgets using total column observations. Atmospheric Chemistry and Physics, 2016, 16, 14003-14024.	4.9	24

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127	Ground-based infrared solar spectroscopic measurements of carbon monoxide during 1994 Measurement of Air Pollution From Space flights. Journal of Geophysical Research, 1998, 103, 19317-19325.	3.3	23
128	Ground-based FTIR observations of chlorine activation and ozone depletion inside the Arctic vortex during the winter of 1999/2000. Journal of Geophysical Research, 2002, 107, SOL 6-1.	3.3	23
129	SCIAMACHY WFM-DOAS <i>X</i>CO₂: reduction of scattering related errors. Atmospheric Measurement Techniques, 2012, 5, 2375-2390.	3.1	23
130	Remote sensing of CO₂ and CH₄ using solar absorption spectrometry with a low resolution spectrometer. Atmospheric Measurement Techniques, 2012, 5, 1627-1635.	3.1	23
131	Retrieval of tropospheric column-averaged CH₄ mole fraction by solar absorption FTIR-spectrometry using N₂O as a proxy. Atmospheric Measurement Techniques, 2014, 7, 3295-3305.	3.1	23
132	Fate of terrestrial organic carbon and associated CO₂ and CO emissions from two Southeast Asian estuaries. Biogeosciences, 2016, 13, 691-705.	3.3	23
133	Validation of Carbon Trace Gas Profile Retrievals from the NOAA-Unique Combined Atmospheric Processing System for the Cross-Track Infrared Sounder. Remote Sensing, 2020, 12, 3245.	4.0	23
134	Summertime low-ozone episodes at northern high latitudes. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 3265-3275.	2.7	22
135	Shipborne solar absorption measurements of CO₂, CH₄, N₂O and CO and comparison with SCIAMACHY WFM-DOAS retrievals. Atmospheric Chemistry and Physics, 2005, 5, 2029-2034.	4.9	22
136	Latitude and altitude variability of carbon monoxide in the Atlantic detected from ship-borne Fourier transform spectrometry, model, and satellite data. Journal of Geophysical Research, 2005, 110, .	3.3	22
137	A model study of the plasma chemistry of stratospheric Blue Jets. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 122, 75-85.	1.6	22
138	Ensemble-based satellite-derived carbon dioxide and methane column-averaged dry-air mole fraction data sets (2003â€“2018) for carbon and climate applications. Atmospheric Measurement Techniques, 2020, 13, 789-819.	3.1	22
139	Heterogeneous conversion of HCl and ClONO2during the Arctic winter 1992/1993 initiating ozone depletion. Journal of Geophysical Research, 1995, 100, 11269.	3.3	21
140	Denitrification in the Arctic mid-winter 2004/2005 observed by airborne submillimeter radiometry. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	21
141	The influence of instrumental line shape degradation on NDACC gas retrievals: total column and profile. Atmospheric Measurement Techniques, 2018, 11, 2879-2896.	3.1	21
142	Evaluation of MOPITT VersionÂ7 joint TIRâ€“NIR X_{CO} retrievals with TCCON. Atmospheric Measurement Techniques, 2019, 12, 5547-5572.	3.1	21
143	How increasing CO₂ leads to an increased negative greenhouse effect in Antarctica. Geophysical Research Letters, 2015, 42, 10,422.	4.0	20
144	Comparison of XH2O Retrieved from GOSAT Short-Wavelength Infrared Spectra with Observations from the TCCON Network. Remote Sensing, 2016, 8, 414.	4.0	20

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145	Towards understanding the variability in biospheric CO₂Âfluxes: using FTIR spectrometry and a chemical transport model to investigate the sources and sinks of carbonyl sulfide and its link to CO₂. Atmospheric Chemistry and Physics, 2016, 16, 2123-2138.	4.9	20
146	Mapping the drivers of formaldehyde (HCHO) variability from 2015 to 2019 over eastern China: insights from Fourier transform infrared observation and GEOS-Chem model simulation. Atmospheric Chemistry and Physics, 2021, 21, 6365-6387.	4.9	20
147	Absolute infrared band intensities and air broadening coefficient for spectroscopic measurements of formic acid in air. Spectrochimica Acta Part A: Molecular Spectroscopy, 1991, 47, 477-483.	0.1	19
148	FTIR measurements of HF, N2O and CFCs during the Arctic polar night with the Moon as light source, subsidence during winter 1992/93. Geophysical Research Letters, 1994, 21, 2385-2388.	4.0	19
149	Seasonal and latitudinal variation of atmospheric methane: A ground-based and ship-borne solar IR spectroscopic study. Geophysical Research Letters, 2006, 33, .	4.0	19
150	First groundâ€based FTIR observations of the seasonal variation of carbon monoxide in the tropics. Geophysical Research Letters, 2008, 35, .	4.0	19
151	Ship-borne FTIR measurements of CO and O₃ in the Western Pacific from 43Â° N to 35Â° S: an evaluation of the sources. Atmospheric Chemistry and Physics, 2012, 12, 815-828.	4.9	19
152	A posteriori calculation of Î´¹⁸O and ÎD in atmospheric water vapour from ground-based near-infrared FTIR retrievals of H₂¹⁶O, H₂¹⁸O, and HD¹⁶O. Atmospheric Measurement Techniques, 2014, 7, 2567-2580.	3.1	19
153	A framework for comparing remotely sensed and in-situ CO₂ concentrations. Atmospheric Chemistry and Physics, 2008, 8, 2555-2568.	4.9	18
154	CO at 40â€“80 km above Kiruna observed by the ground-based microwave radiometer KIMRA and simulated by the Whole Atmosphere Community Climate Model. Atmospheric Chemistry and Physics, 2012, 12, 3261-3271.	4.9	18
155	The chemistry of daytime sprite streamers â€“ a model study. Atmospheric Chemistry and Physics, 2014, 14, 3545-3556.	4.9	18
156	Drivers of column-average CO₂ variability at Southern Hemispheric Total Carbon Column Observing Network sites. Atmospheric Chemistry and Physics, 2014, 14, 9883-9901.	4.9	18
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