

Justus Notholt

List of Publications by Year in descending order

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257
papers

12,831
citations

30070

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331
times ranked

7085
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-Term Observations of Atmospheric Constituents at the First Ground-Based High-Resolution Fourier-Transform Spectrometry Observation Station in China. <i>Engineering</i> , 2023, 22, 201-214.	6.7	5
2	Side by side measurements of CO ₂ by ground-based Fourier transform spectrometry (FTS). <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 62, 749.	1.6	84
3	Global Atmospheric OCS Trend Analysis From 22 NDACC Stations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	12
4	An 11-year record of XCO ₂ ; estimates derived from GOSAT measurements using the NASA ACOS version 9 retrieval algorithm. <i>Earth System Science Data</i> , 2022, 14, 325-360.	9.9	17
5	Satellite Observations Reveal a Large CO Emission Discrepancy From Industrial Point Sources Over China. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	7
6	Nitrous Oxide Profiling from Infrared Radiances (NOPIR): Algorithm Description, Application to 10 Years of IASI Observations and Quality Assessment. <i>Remote Sensing</i> , 2022, 14, 1810.	4.0	0
7	A dataset of microphysical cloud parameters, retrieved from Fourier-transform infrared (FTIR) emission spectra measured in Arctic summer 2017. <i>Earth System Science Data</i> , 2022, 14, 2767-2784.	9.9	2
8	Retrieval of greenhouse gases from GOSAT and GOSAT-2 using the FOCAL algorithm. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 3401-3437.	3.1	10
9	CO ₂ emissions from peat-draining rivers regulated by water pH. <i>Biogeosciences</i> , 2022, 19, 2855-2880.	3.3	2
10	First retrievals of peroxyacetyl nitrate (PAN) from ground-based FTIR solar spectra recorded at remote sites, comparison with model and satellite data. <i>Elementa</i> , 2021, 9, .	3.2	7
11	Characterization and potential for reducing optical resonances in Fourier transform infrared spectrometers of the Network for the Detection of Atmospheric Composition Change (NDACC). <i>Atmospheric Measurement Techniques</i> , 2021, 14, 1239-1252.	3.1	9
12	COVID-19 Crisis Reduces Free Tropospheric Ozone Across the Northern Hemisphere. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091987.	4.0	51
13	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. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6365-6387.	4.9	20
14	XCO ₂ retrieval for GOSAT and GOSAT-2 based on the FOCAL algorithm. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 3837-3869.	3.1	15
15	The Diurnal Variation in Stratospheric Ozone from MACC Reanalysis, ERA-Interim, WACCM, and Earth Observation Data: Characteristics and Intercomparison. <i>Atmosphere</i> , 2021, 12, 625.	2.3	5
16	Model simulations of chemical effects of sprites in relation with observed HO ₂ enhancements over sprite-producing thunderstorms. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 7579-7596.	4.9	2
17	Quantifying variability, source, and transport of CO in the urban areas over the Himalayas and Tibetan Plateau. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9201-9222.	4.9	10
18	Characterizing model errors in chemical transport modeling of methane: using GOSAT XCH ₄ data with weak-constraint four-dimensional variational data assimilation. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9545-9572.	4.9	14

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19	The Adaptable 4A Inversion (5A): description and first retrievals from Orbiting Carbon Observatory-2 (OCO-2) observations. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 4689-4706.	3.1	5
20	The reduction in CO ₂ and H ₂ O from 2015 to 2020 over Hefei, eastern China, points to air quality improvement in China. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11759-11779.	4.9	12
21	Validation of methane and carbon monoxide from Sentinel-5 Precursor using TCCON and NDACC-IRWG stations. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 6249-6304.	3.1	57
22	Spatial distributions of CO ₂ seasonal cycle amplitude and phase over northern high-latitude regions. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16661-16687.	4.9	10
23	Assessing the feasibility of using a neural network to filter Orbiting Carbon Observatory-2 (OCO-2) retrievals at northern high latitudes. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 7511-7524.	3.1	4
24	The drivers and health risks of unexpected surface ozone enhancements over the Sichuan Basin, China, in 2020. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 18589-18608.	4.9	12
25	Bias Correction of the Ratio of Total Column CH ₄ to CO ₂ Retrieved from GOSAT Spectra. <i>Remote Sensing</i> , 2020, 12, 3155.	4.0	2
26	Toward High Precision XCO ₂ Retrievals From TanSat Observations: Retrieval Improvement and Validation Against TCCON Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032794.	3.3	25
27	Diagnosing Mixing Properties in Model Simulations for CH ₄ in the Stratosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032524.	3.3	2
28	Observed Hemispheric Asymmetry in Stratospheric Transport Trends From 1994 to 2018. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088567.	4.0	13
29	Validation of Carbon Trace Gas Profile Retrievals from the NOAA-Unique Combined Atmospheric Processing System for the Cross-Track Infrared Sounder. <i>Remote Sensing</i> , 2020, 12, 3245.	4.0	23
30	A New Remote Sensing Method to Estimate River to Ocean DOC Flux in Peatland Dominated Sarawak Coastal Regions, Borneo. <i>Remote Sensing</i> , 2020, 12, 3380.	4.0	7
31	Impact of Molecular Spectroscopy on Carbon Monoxide Abundances from TROPOMI. <i>Remote Sensing</i> , 2020, 12, 3486.	4.0	3
32	Spectral sizing of a coarse-spectral-resolution satellite sensor for XCO ₂ . <i>Atmospheric Measurement Techniques</i> , 2020, 13, 731-745.	3.1	3
33	Fourier transform infrared time series of tropospheric HCN in eastern China: seasonality, interannual variability, and source attribution. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5437-5456.	4.9	17
34	Ensemble-based satellite-derived carbon dioxide and methane column-averaged dry-air mole fraction data sets (2003–2018) for carbon and climate applications. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 789-819.	3.1	22
35	Detection and attribution of wildfire pollution in the Arctic and northern midlatitudes using a network of Fourier-transform infrared spectrometers and GEOS-Chem. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12813-12851.	4.9	26
36	TROPOMI–Sentinel-5 Precursor formaldehyde validation using an extensive network of ground-based Fourier-transform infrared stations. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 3751-3767.	3.1	66

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37	Intercomparison of low- and high-resolution infrared spectrometers for ground-based solar remote sensing measurements of total column concentrations of CO ₂ , CH ₄ , and CO. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 4791-4839.	3.1	28
38	A decade of GOSAT Proxy satellite CH ₄ observations. <i>Earth System Science Data</i> , 2020, 12, 3383-3412.	9.9	53
39	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. <i>Geoscientific Model Development</i> , 2020, 13, 3839-3862.	3.6	27
40	Ground-based millimetre-wave measurements of middle-atmospheric carbon monoxide above Ny-Ålesund (78.9°N, 11.9°E). <i>Atmospheric Measurement Techniques</i> , 2019, 12, 4077-4089.	3.1	1
41	Impact of peatlands on carbon dioxide (CO ₂) emissions from the Rajang River and Estuary, Malaysia. <i>Biogeosciences</i> , 2019, 16, 17-32.	3.3	17
42	Emissions of methane in Europe inferred by total column measurements. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3963-3980.	4.9	10
43	An intercomparison of total column-averaged nitrous oxide between ground-based FTIR TCCON and NDACC measurements at seven sites and comparisons with the GEOS-Chem model. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 1393-1408.	3.1	17
44	Evaluation and Analysis of the Seasonal Cycle and Variability of the Trend from GOSAT Methane Retrievals. <i>Remote Sensing</i> , 2019, 11, 882.	4.0	17
45	Evaluation of MOPITT Version 7 joint TIR "NIR XCO ₂ " retrievals with TCCON. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5547-5572.	3.1	21
46	A scientific algorithm to simultaneously retrieve carbon monoxide and methane from TROPOMI onboard Sentinel-5 Precursor. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 6771-6802.	3.1	71
47	FTIR time series of stratospheric NO ₂ over Hefei, China, and comparisons with OMI and GEOS-Chem model data. <i>Optics Express</i> , 2019, 27, A1225.	3.4	32
48	Assessing the ability to derive rates of polar middle-atmospheric descent using trace gas measurements from remote sensors. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1457-1474.	4.9	18
49	Improved retrievals of carbon dioxide from Orbiting Carbon Observatory-2 with the version 8 ACOS algorithm. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 6539-6576.	3.1	188
50	Ozone seasonal evolution and photochemical production regime in the polluted troposphere in eastern China derived from high-resolution Fourier transform spectrometry (FTS) observations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14569-14583.	4.9	42
51	NDACC harmonized formaldehyde time series from 21 FTIR stations covering a wide range of column abundances. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5049-5073.	3.1	37
52	Carbon dioxide retrieval from OCO-2 satellite observations using the RemoTeC algorithm and validation with TCCON measurements. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 3111-3130.	3.1	45
53	The influence of instrumental line shape degradation on NDACC gas retrievals: total column and profile. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 2879-2896.	3.1	21
54	Global land mapping of satellite-observed CO ₂ total columns using spatio-temporal geostatistics. <i>International Journal of Digital Earth</i> , 2017, 10, 426-456.	3.9	33

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55	EOF-based regression algorithm for the fast retrieval of atmospheric CO ₂ total column amount from the GOSAT observations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 189, 258-266.	2.3	9
56	Diel variation in isotopic composition of soil respiratory CO ₂ fluxes: The role of non-steady state conditions. <i>Agricultural and Forest Meteorology</i> , 2017, 234-235, 95-105.	4.8	11
57	Application of the automatic seep location estimator (ASLE) with the use of contextual information for estimating offshore oil seeps. <i>Remote Sensing Applications: Society and Environment</i> , 2017, 5, 16-26.	1.5	1
58	Global satellite observations of column-averaged carbon dioxide and methane: The GHG-CCI XCO ₂ and XCH ₄ CRDP3 data set. <i>Remote Sensing of Environment</i> , 2017, 203, 276-295.	11.0	52
59	Validation of GOSAT SWIR XCO ₂ and XCH ₄ Retrieved by PPDF-S Method and Comparison with Full Physics Method. <i>Scientific Online Letters on the Atmosphere</i> , 2017, 13, 168-173.	1.4	6
60	Contributions of the troposphere and stratosphere to CH ₄ model biases. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13283-13295.	4.9	7
61	Study of the footprints of short-term variation in XCO ₂ observed by TCCON sites using NIES and FLEXPART atmospheric transport models. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 143-157.	4.9	10
62	Technical note: Sensitivity of instrumental line shape monitoring for the ground-based high-resolution FTIR spectrometer with respect to different optical attenuators. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 989-997.	3.1	13
63	The arctic seasonal cycle of total column CO ₂ and CH ₄ from ground-based solar and lunar FTIR absorption spectrometry. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2397-2411.	3.1	4
64	Comparison of the GOSAT TANSO-FTS TIR CH ₄ volume mixing ratio vertical profiles with those measured by ACE-FTS, ESA MIPAS, IMK-IAA MIPAS, and 16 NDACC stations. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 3697-3718.	3.1	10
65	Validation of the CrIS fast physical NH ₃ retrieval with ground-based FTIR. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2645-2667.	3.1	52
66	Comparisons of the Orbiting Carbon Observatory-2 (OCO-2) XCO ₂ measurements with TCCON. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2209-2238.	3.1	11
67	Investigating the performance of a greenhouse gas observatory in Hefei, China. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2627-2643.	3.1	44
68	Tropospheric water vapour isotopologue data (H ₂ O, H ₂ ¹⁸ O, H ₂ ¹⁶ O) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 26	9.9	26
69	Earth System Science Data, 2017, 9, 15-29. Strato-mesospheric carbon monoxide profiles above Kiruna, Sweden (67.8 °N, 20.4 °E), since 2008. <i>Earth System Science Data</i> , 2017, 9, 77-89.	9.9	5
70	Retrieval of XCO ₂ from ground-based mid-infrared (NDACC) solar absorption spectra and comparison to TCCON. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 577-585.	3.1	18
71	Fate of terrestrial organic carbon and associated CO ₂ and CO emissions from two Southeast Asian estuaries. <i>Biogeosciences</i> , 2016, 13, 691-705.	3.3	23
72	Bias corrections of GOSAT SWIR XCO ₂ and XCH ₄ with TCCON data and their evaluation using aircraft measurement data. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 3491-3512.	3.1	40

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73	Consistent evaluation of ACOS-GOSAT, BESD-SCIAMACHY, CarbonTracker, and MACC through comparisons to TCCON. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 683-709.	3.1	80
74	Nitrous oxide and methane in two tropical estuaries in a peat-dominated region of northwestern Borneo. <i>Biogeosciences</i> , 2016, 13, 2415-2428.	3.3	30
75	Comparison of XH ₂ O Retrieved from GOSAT Short-Wavelength Infrared Spectra with Observations from the TCCON Network. <i>Remote Sensing</i> , 2016, 8, 414.	4.0	20
76	Stratospheric aerosol-Observations, processes, and impact on climate. <i>Reviews of Geophysics</i> , 2016, 54, 278-335.	23.0	265
77	Seasonal variability of stratospheric methane: implications for constraining tropospheric methane budgets using total column observations. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14003-14024.	4.9	24
78	Towards understanding the variability in biospheric CO ₂ fluxes: using FTIR spectrometry and a chemical transport model to investigate the sources and sinks of carbonyl sulfide and its link to CO ₂ . <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2123-2138.	4.9	20
79	An evaluation of IASI-NH ₃ with ground-based Fourier transform infrared spectroscopy measurements. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10351-10368.	4.9	56
80	How increasing CO ₂ leads to an increased negative greenhouse effect in Antarctica. <i>Geophysical Research Letters</i> , 2015, 42, 10,422.	4.0	20
81	Trends of ozone total columns and vertical distribution from FTIR observations at eight NDACC stations around the globe. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2915-2933.	4.9	76
82	Retrieval of ammonia from ground-based FTIR solar spectra. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12789-12803.	4.9	32
83	Estimating global and North American methane emissions with high spatial resolution using GOSAT satellite data. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7049-7069.	4.9	225
84	The role of photo- and thermal degradation for CO ₂ and CO fluxes in an arid ecosystem. <i>Biogeosciences</i> , 2015, 12, 4161-4174.	3.3	26
85	Lateral carbon fluxes and CO ₂ outgassing from a tropical peat-draining river. <i>Biogeosciences</i> , 2015, 12, 5967-5979.	3.3	59
86	Assessing 5 years of GOSAT Proxy XCH ₄ data and associated uncertainties. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 4785-4801.	3.1	64
87	Using XCO ₂ retrievals for assessing the long-term consistency of NDACC/FTIR data sets. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1555-1573.	3.1	39
88	Validation of SCIAMACHY HDO/H ₂ O measurements using the TCCON and NDACC-MUSICA networks. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1799-1818.	3.1	17
89	The Greenhouse Gas Climate Change Initiative (GHG-CCI): Comparison and quality assessment of near-surface-sensitive satellite-derived CO ₂ and CH ₄ global data sets. <i>Remote Sensing of Environment</i> , 2015, 162, 344-362.	11.0	112
90	A model study of the plasma chemistry of stratospheric Blue Jets. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015, 122, 75-85.	1.6	22

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91	The Use of FTIR-Spectrometry in Combination with Different Biosphere-Atmosphere Flux Measurement Techniques. Springer Earth System Sciences, 2015, , 77-84.	0.2	0
92	The impact of spectral resolution on satellite retrieval accuracy of CO ₂ and CH ₄ . Atmospheric Measurement Techniques, 2014, 7, 1105-1119.	3.1	6
93	Derivation of tropospheric methane from TCCON CH ₄ and HF total column observations. Atmospheric Measurement Techniques, 2014, 7, 2907-2918.	3.1	28
94	The Greenhouse Gas Climate Change Initiative (GHG-CCI): comparative validation of GHG-CCI SCIAMACHY/ENVISAT and TANSO-FTS/GOSAT CO ₂ and CH ₄ retrieval algorithm products with measurements from the TCCON. Atmospheric Measurement Techniques, 2014, 7, 1723-1744.	3.1	70
95	O and D ₂ O in atmospheric water vapour from ground-based near-infrared FTIR retrievals of H ₂ O, H ₂ O, and HD ₂ O. Atmospheric Measurement Techniques, 2014, 7, 3567-3580.	3.1	19
96	Retrieval of tropospheric column-averaged CH ₄ mole fraction by solar absorption FTIR-spectrometry using N ₂ O as a proxy. Atmospheric Measurement Techniques, 2014, 7, 3295-3305.	3.1	23
97	Tropospheric CH ₄ 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
98	Recent Northern Hemisphere stratospheric HCl increase due to atmospheric circulation changes. Nature, 2014, 515, 104-107.	27.8	110
99	Intertidal Topographic Maps and Morphological Changes in the German Wadden Sea between 1996-1999 and 2006-2009 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
100	The chemistry of daytime sprite streamers - a model study. Atmospheric Chemistry and Physics, 2014, 14, 3545-3556.	4.9	18
101	Constraints for the photolysis rate and the equilibrium constant of ClO dimer from airborne and balloon-borne measurements of chlorine compounds. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6916-6937.	3.3	1
102	A tropical West Pacific OH minimum and implications for stratospheric composition. Atmospheric Chemistry and Physics, 2014, 14, 4827-4841.	4.9	60
103	On the impact of the temporal variability of the collisional quenching process on the mesospheric OH emission layer: a study based on SD-WACCM4 and SABER. Atmospheric Chemistry and Physics, 2014, 14, 10193-10210.	4.9	12
104	Satellite-inferred European carbon sink larger than expected. Atmospheric Chemistry and Physics, 2014, 14, 13739-13753.	4.9	83
105	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
106	Drivers of column-average CO ₂ variability at Southern Hemispheric Total Carbon Column Observing Network sites. Atmospheric Chemistry and Physics, 2014, 14, 9883-9901.	4.9	18
107	Corrigendum to "A multi-year methane inversion using SCIAMACHY, accounting for systematic errors using TCCON measurements" published in Atmos. Chem. Phys., 14, 3991-4012, 2014. Atmospheric Chemistry and Physics, 2014, 14, 10961-10962.	4.9	1
108	Urban mercury pollution in the City of Paramaribo, Suriname. Air Quality, Atmosphere and Health, 2013, 6, 205-213.	3.3	11

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109	A model study of the negative chlorine ion chemistry in the Earth's mesosphere. <i>Advances in Space Research</i> , 2013, 51, 2342-2352.	2.6	3
110	Simultaneous retrieval of atmospheric CO ₂ and light path modification from space-based spectroscopic observations of greenhouse gases: methodology and application to GOSAT measurements over TCCON sites. <i>Applied Optics</i> , 2013, 52, 1339.	1.8	15
111	Improvement of the retrieval algorithm for GOSAT SWIR XCO ₂ and XCH ₄ and their validation using TCCON data. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 1533-1547.	3.1	261
112	HDO/H ₂ O ratio retrievals from GOSAT. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 599-612.	3.1	45
113	Effects of atmospheric light scattering on spectroscopic observations of greenhouse gases from space. Part 2: Algorithm intercomparison in the GOSAT data processing for CO ₂ retrievals over TCCON sites. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1493-1512.	3.3	46
114	The topography comparison between the year 1999 and 2006 of German tidal flat wadden sea analyzing SAR images with waterline method. , 2013, , .		1
115	The covariation of Northern Hemisphere summertime CO ₂ with surface temperature in boreal regions. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9447-9459.	4.9	42
116	Simulations of column-averaged CO ₂ and CH ₄ using the NIES TM with a hybrid sigma-isentropic (σ - η) vertical coordinate. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1713-1732.	4.9	42
117	Influence of Solar Radiation on the Diurnal and Seasonal Variability of O ₃ and H ₂ O in the Stratosphere and Lower Mesosphere, Based on Continuous Observations in the Tropics and the High Arctic. <i>Springer Atmospheric Sciences</i> , 2013, , 125-147.	0.3	5
118	Remote Sensing and Modelling of Atmospheric Chemistry and Sea Ice Parameters. <i>SpringerBriefs in Earth System Sciences</i> , 2013, , 9-56.	0.1	0
119	SCIAMACHY WFM-DOAS &X ₂ : reduction of scattering related errors. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2375-2390.	3.1	23
120	Lidar measurement of planetary boundary layer height and comparison with microwave profiling radiometer observation. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 1965-1972.	3.1	54
121	Ground-based remote sensing of tropospheric water vapour isotopologues within the project MUSICA. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 3007-3027.	3.1	69
122	Validation of IASI FORLI carbon monoxide retrievals using FTIR data from NDACC. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2751-2761.	3.1	45
123	Remote sensing of CO ₂ and CH ₄ using solar absorption spectrometry with a low resolution spectrometer. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 1627-1635.	3.1	23
124	The ACOS CO ₂ retrieval algorithm " Part II: Global X ₂ data characterization. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 687-707.	3.1	320
125	Topographic mapping of Wadden Sea, with SAR images and waterlevel model data. , 2012, , .		1
126	Automated ground-based remote sensing measurements of greenhouse gases at the BiaÅstok site in comparison with collocated in situ measurements and model data. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6741-6755.	4.9	25

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127	Atmospheric greenhouse gases retrieved from SCIAMACHY: comparison to ground-based FTS measurements and model results. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1527-1540.	4.9	86
128	Technical Note: Latitude-time variations of atmospheric column-average dry air mole fractions of CO ₂ , CH ₄ and N ₂ O. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7767-7777.	4.9	25
129	Ship-borne FTIR measurements of CO and O ₃ in the Western Pacific from 43° N to 35° S: an evaluation of the sources. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 815-828.	4.9	19
130	CO at 40–80 km above Kiruna observed by the ground-based microwave radiometer KIMRA and simulated by the Whole Atmosphere Community Climate Model. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3261-3271.	4.9	18
131	Observed and simulated time evolution of HCl, ClONO ₂ , and HF total column abundances. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3527-3556.	4.9	72
132	Sources of atmospheric mercury in the tropics: continuous observations at a coastal site in Suriname. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7391-7397.	4.9	30
133	Calibration of column-averaged CH ₄ over European TCCON FTS sites with airborne in-situ measurements. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8763-8775.	4.9	55
134	Effects of atmospheric light scattering on spectroscopic observations of greenhouse gases from space: Validation of PPF ₂ -based CO ₂ retrievals from GOSAT. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	42
135	Process evaluation of tropospheric humidity simulated by general circulation models using water vapor isotopologues: 1. Comparison between models and observations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	114
136	Atmospheric carbon dioxide retrieved from the Greenhouse gases Observing SATellite (GOSAT): Comparison with ground-based TCCON observations and GEOS-Chem model calculations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	139
137	The imprint of surface fluxes and transport on variations in total column carbon dioxide. <i>Biogeosciences</i> , 2012, 9, 875-891.	3.3	98
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