

Nicholas Deutscher

List of Publications by Year in descending order

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123
papers

7,737
citations

61857

43
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66788

78
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216
all docs

216
docs citations

216
times ranked

4303
citing authors

#	ARTICLE	IF	CITATIONS
1	Key challenges for tropospheric chemistry in the Southern Hemisphere. <i>Elementa</i> , 2022, 10, .	1.1	7
2	Australian Fire Emissions of Carbon Monoxide Estimated by Global Biomass Burning Inventories: Variability and Observational Constraints. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	6
3	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.	3.7	17
4	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.	1.8	0
5	On the consistency of methane retrievals using the Total Carbon Column Observing Network (TCCON) and multiple spectroscopic databases. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 2377-2406.	1.2	3
6	Improved calibration procedures for the EM27/SUN spectrometers of the COllaborative Carbon Column Observing Network (COCCON). <i>Atmospheric Measurement Techniques</i> , 2022, 15, 2433-2463.	1.2	10
7	Retrieval of greenhouse gases from GOSAT and GOSAT-2 using the FOCAL algorithm. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 3401-3437.	1.2	10
8	Interannual variability in the Australian carbon cycle over 2015–2019, based on assimilation of Orbiting Carbon Observatory-2 (OCO-2) satellite data. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8897-8934.	1.9	5
9	Methane retrieved from TROPOMI: improvement of the data product and validation of the first 2 years of measurements. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 665-684.	1.2	104
10	Performance of an open-path near-infrared measurement system for measurements of CO ₂ and CH ₄ during extended field trials. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 3119-3130.	1.2	2
11	XCO ₂ ; retrieval for GOSAT and GOSAT-2 based on the FOCAL algorithm. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 3837-3869.	1.2	15
12	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.	1.9	14
13	The Adaptable 4A Inversion (5A1): description and first XCO ₂ ; retrievals from Orbiting Carbon Observatory-2 (OCO-2) observations. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 4689-4706.	1.2	5
14	2019–20 Australian Bushfires and Anomalies in Carbon Monoxide Surface and Column Measurements. <i>Atmosphere</i> , 2021, 12, 755.	1.0	5
15	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.	1.2	57
16	Was Australia a sink or source of CO ₂ in 2015? Data assimilation using OCO-2 satellite measurements. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 17453-17494.	1.9	8
17	The Carbon Cycle of Southeast Australia During 2019–2020: Drought, Fires, and Subsequent Recovery. <i>AGU Advances</i> , 2021, 2, .	2.3	21
18	Bias Correction of the Ratio of Total Column CH ₄ to CO ₂ Retrieved from GOSAT Spectra. <i>Remote Sensing</i> , 2020, 12, 3155.	1.8	2

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19	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.	1.2	25
20	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.	1.8	23
21	Spectral sizing of a coarse-spectral-resolution satellite sensor for XCO ₂ . <i>Atmospheric Measurement Techniques</i> , 2020, 13, 731-745.	1.2	3
22	Improved Constraints on Northern Extratropical CO ₂ Fluxes Obtained by Combining Surface-Based and Space-Based Atmospheric CO ₂ Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032029.	1.2	26
23	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.	1.2	22
24	A decade of GOSAT Proxy satellite CH ₄ observations. <i>Earth System Science Data</i> , 2020, 12, 3383-3412.	3.7	53
25	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.	1.3	27
26	Validation of XCO ₂ and XCH ₄ retrieved from a portable Fourier transform spectrometer with those from in situ profiles from aircraft-borne instruments. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 5149-5163.	1.2	3
27	Bayesian atmospheric tomography for detection and quantification of methane emissions: application to data from the 2015 Ginninderra release experiment. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 4659-4676.	1.2	4
28	Emissions of methane in Europe inferred by total column measurements. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3963-3980.	1.9	10
29	Simultaneous shipborne measurements of CO ₂ , CH ₄ and CO and their application to improving greenhouse-gas flux estimates in Australia. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7055-7072.	1.9	5
30	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.	1.2	17
31	Building the Collaborative Carbon Column Observing Network (COCCON): long-term stability and ensemble performance of the EM27/SUN Fourier transform spectrometer. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 1513-1530.	1.2	82
32	Evaluation and Analysis of the Seasonal Cycle and Variability of the Trend from GOSAT Methane Retrievals. <i>Remote Sensing</i> , 2019, 11, 882.	1.8	17
33	Evaluation of Bias Correction Methods for GOSAT SWIR XH ₂ O Using TCCON data. <i>Remote Sensing</i> , 2019, 11, 290.	1.8	2
34	Evaluation of MOPITT Version 7 joint TIR–NIR XCO ₂ retrievals with TCCON. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5547-5572.	1.2	21
35	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.	1.2	71
36	Satellite and ground-based measurements of XCO ₂ in a remote semiarid region of Australia. <i>Earth System Science Data</i> , 2019, 11, 935-946.	3.7	18

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37	The Ginninderra CH ₄ and CO ₂ release experiment: An evaluation of gas detection and quantification techniques. International Journal of Greenhouse Gas Control, 2018, 70, 202-224.	2.3	49
38	Philippines TCCON Project: One-year Measurement Results and Future. , 2018, , .		0
39	Global land mapping of satellite-observed CO ₂ total columns using spatio-temporal geostatistics. International Journal of Digital Earth, 2017, 10, 426-456.	1.6	33
40	EOF-based regression algorithm for the fast retrieval of atmospheric CO ₂ total column amount from the GOSAT observations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 189, 258-266.	1.1	9
41	Global satellite observations of column-averaged carbon dioxide and methane: The GHG-CCI XCO ₂ and XCH ₄ CRDP3 data set. Remote Sensing of Environment, 2017, 203, 276-295.	4.6	52
42	Consistent regional fluxes of CH ₄ and CO ₂ inferred from GOSAT proxy XCH ₄ and XCO ₂ retrievals, 2010–2014. Atmospheric Chemistry and Physics, 2017, 17, 4781-4797.	1.9	52
43	Validation of GOSAT SWIR XCO ₂ and XCH ₄ Retrieved by PPDF-S Method and Comparison with Full Physics Method. Scientific Online Letters on the Atmosphere, 2017, 13, 168-173.	0.6	6
44	Contributions of the troposphere and stratosphere to CH ₄ model biases. Atmospheric Chemistry and Physics, 2017, 17, 13283-13295.	1.9	7
45	Study of the footprints of short-term variation in XCO ₂ observed by TCCON sites using NIES and FLEXPART atmospheric transport models. Atmospheric Chemistry and Physics, 2017, 17, 143-157.	1.9	10
46	The arctic seasonal cycle of total column CO ₂ and CH ₄ from ground-based solar and lunar FTIR absorption spectrometry. Atmospheric Measurement Techniques, 2017, 10, 2397-2411.	1.2	4
47	TCCON Philippines: First Measurement Results, Satellite Data and Model Comparisons in Southeast Asia. Remote Sensing, 2017, 9, 1228.	1.8	22
48	Improved method for linear carbon monoxide simulation and source attribution in atmospheric chemistry models illustrated using GEOS-Chem v9. Geoscientific Model Development, 2017, 10, 4129-4144.	1.3	29
49	Comparisons of the Orbiting Carbon Observatory-2 (OCO-2) and XCO ₂ measurements with TCCON. Atmospheric Measurement Techniques, 2017, 10, 2209-2238.		
50	Total Carbon Column Observing Network Philippines: Toward Quantifying Atmospheric Carbon in Southeast Asia. Climate Disaster and Development Journal, 2017, 2, 1-12.	0.1	8
51	The Total Carbon Column Observing Network site description for Lauder, New Zealand. Earth System Science Data, 2017, 9, 977-992.	3.7	24
52	Retrieval of XCO ₂ from ground-based mid-infrared (NDACC) solar absorption spectra and comparison to TCCON. Atmospheric Measurement Techniques, 2016, 9, 577-585.	1.2	18
53	Bias corrections of GOSAT SWIR XCO ₂ and XCH ₄ with TCCON data and their evaluation using aircraft measurement data. Atmospheric Measurement Techniques, 2016, 9, 3491-3512.	1.2	40
54	Evaluation of column-averaged methane in models and TCCON with a focus on the stratosphere. Atmospheric Measurement Techniques, 2016, 9, 4843-4859.	1.2	23

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55	Consistent evaluation of ACOS-GOSAT, BESD-SCIAMACHY, CarbonTracker, and MACC through comparisons to TCCON. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 683-709.	1.2	80
56	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.	1.8	20
57	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.	1.9	24
58	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.	1.9	20
59	Estimates of European uptake of CO ₂ inferred from GOSAT XCO ₂ retrievals: sensitivity to measurement bias inside and outside Europe. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1289-1302.	1.9	77
60	Ability of the 4-D-Var analysis of the GOSAT BESD XCO ₂ retrievals to characterize atmospheric CO ₂ at large and synoptic scales. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1653-1671.	1.9	38
61	Source and meteorological influences on air quality (CO, CH ₄ & CO ₂) at a Southern Hemisphere urban site. <i>Atmospheric Environment</i> , 2016, 126, 274-289.	1.9	46
62	Improving atmospheric CO ₂ retrievals using line mixing and speed-dependence when fitting high-resolution ground-based solar spectra. <i>Journal of Molecular Spectroscopy</i> , 2016, 323, 15-27.	0.4	10
63	Positive trends in Southern Hemisphere carbonyl sulfide. <i>Geophysical Research Letters</i> , 2015, 42, 9473-9480.	1.5	20
64	Moist processes during MJO events as diagnosed from water isotopic measurements from the IASI satellite. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 10,619-10,636.	1.2	9
65	Does GOSAT capture the true seasonal cycle of carbon dioxide?. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13023-13040.	1.9	63
66	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.	1.9	225
67	Consistent satellite XCO ₂ retrievals from SCIAMACHY and GOSAT using the BESD algorithm. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 2961-2980.	1.2	45
68	Assessing 5 years of GOSAT Proxy XCH ₄ data and associated uncertainties. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 4785-4801.	1.2	64
69	Using XCO ₂ retrievals for assessing the long-term consistency of NDACC/FTIR data sets. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1555-1573.	1.2	39
70	Validation of SCIAMACHY HDO/H ₂ O measurements using the TCCON and NDACC-MUSICA networks. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1799-1818.	1.2	17
71	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.	4.6	112
72	The impact of spectral resolution on satellite retrieval accuracy of CO ₂ and CH ₄ . <i>Atmospheric Measurement Techniques</i> , 2014, 7, 1105-1119.	1.2	6

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73	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
74	Derivation of tropospheric methane from TCCON CH ₄ and HF total column observations. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 2907-2918.	1.2	28
75	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. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 1723-1744.	1.2	70
76	Retrieval of tropospheric column-averaged CH ₄ mole fraction by solar absorption FTIR-spectrometry using N ₂ O as a proxy. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3295-3305.	1.2	23
77	Tropospheric CH ₄ signals as observed by NDACC FTIR at globally distributed sites and comparison to GAW surface in situ measurements. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 2337-2360.	1.2	38
78	Satellite-inferred European carbon sink larger than expected. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13739-13753.	1.9	83
79	Inferring regional sources and sinks of atmospheric CO ₂ from GOSAT XCO ₂ data. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3703-3727.	1.9	120
80	Drivers of column-average CO ₂ variability at Southern Hemispheric Total Carbon Column Observing Network sites. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 9883-9901.	1.9	18
81	Forecasting global atmospheric CO ₂ . <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11959-11983.	1.9	74
82	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.	0.9	15
83	First intercalibration of column-averaged methane from the Total Carbon Column Observing Network and the Network for the Detection of Atmospheric Composition Change. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 397-418.	1.2	24
84	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.	1.2	261
85	HDO/H ₂ O ratio retrievals from GOSAT. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 599-612.	1.2	45
86	Evaluation of seasonal atmosphere-biosphere exchange estimations with TCCON measurements. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5103-5115.	1.9	28
87	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.	1.2	46
88	The covariation of Northern Hemisphere summertime CO ₂ with surface temperature in boreal regions. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9447-9459.	1.9	42
89	Simulations of column-averaged CO ₂ and CH ₄ using the NIES TM with a hybrid sigma-isentropic (<i>if-\bar{i}</i>) vertical coordinate. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1713-1732.	1.9	42
90	Impact of aerosol and thin cirrus on retrieving and validating XCO ₂ from GOSAT shortwave infrared measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4887-4905.	1.2	111

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91	Improved water vapour spectroscopy in the 4174–4300 cm ⁻¹ region and its impact on SCIAMACHY HDO/H ₂ O measurements. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 879-894.	1.2	30
92	A Fourier transform infrared trace gas and isotope analyser for atmospheric applications. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2481-2498.	1.2	161
93	SCIAMACHY WFM-DOAS XCO ₂ : reduction of scattering related errors. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2375-2390.	1.2	23
94	CH ₄ , CO, and H ₂ O spectroscopy for the Sentinel-5 Precursor mission: an assessment with the Total Carbon Column Observing Network measurements. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 1387-1398.	1.2	26
95	Ground-based remote sensing of tropospheric water vapour isotopologues within the project MUSICA. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 3007-3027.	1.2	69
96	The ACOS CO ₂ retrieval algorithm – Part II: Global XCO ₂ data characterization. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 687-707.	1.2	320
97	Satellite evidence for a large source of formic acid from boreal and tropical forests. <i>Nature Geoscience</i> , 2012, 5, 26-30.	5.4	171
98	Automated ground-based remote sensing measurements of greenhouse gases at the BiaÅystok site in comparison with collocated in situ measurements and model data. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6741-6755.	1.9	25
99	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.	1.9	86
100	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.	1.9	25
101	Effects of atmospheric light scattering on spectroscopic observations of greenhouse gases from space: Validation of PPDF _a -based CO ₂ retrievals from GOSAT. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	42
102	On the potential of the 2041–2047nm spectral region for remote sensing of atmospheric CO ₂ isotopologues. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 2009-2017.	1.1	15
103	Process ^a -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
104	Methane retrievals from Greenhouse Gases Observing Satellite (GOSAT) shortwave infrared measurements: Performance comparison of proxy and physics retrieval algorithms. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	128
105	Atmospheric carbon dioxide retrieved from the Greenhouse gases Observing SATellite (GOSAT): Comparison with ground ^a -based TCCON observations and GEOS ^a -Chem model calculations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	139
106	Retrieval of atmospheric CO ₂ with enhanced accuracy and precision from SCIAMACHY: Validation with FTS measurements and comparison with model results. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	153
107	Methane observations from the Greenhouse Gases Observing SATellite: Comparison to ground ^a -based TCCON data and model calculations. <i>Geophysical Research Letters</i> , 2011, 38, .	1.5	211
108	Toward accurate CO ₂ and CH ₄ observations from GOSAT. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	355

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109	Global CO ₂ fluxes inferred from surface air-sample measurements and from TCCON retrievals of the CO ₂ total column. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	85
110	The Australian methane budget: Interpreting surface and train-borne measurements using a chemistry transport model. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	36
111	Calibration of TCCON column-averaged CO ₂ ; the first aircraft campaign over European TCCON sites. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10765-10777.	1.9	120
112	A method for evaluating bias in global measurements of CO ₂ total columns from space. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 12317-12337.	1.9	279
113	Importance of secondary sources in the atmospheric budgets of formic and acetic acids. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1989-2013.	1.9	266
114	Preliminary validation of column-averaged volume mixing ratios of carbon dioxide and methane retrieved from GOSAT short-wavelength infrared spectra. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 1061-1076.	1.2	217
115	The importance of transport model uncertainties for the estimation of CO ₂ sources and sinks using satellite measurements. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9981-9992.	1.9	98
116	Validation of five years (2003–2007) of SCIAMACHY CO total column measurements using ground-based spectrometer observations. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 1457-1471.	1.2	31
117	Total column CO ₂ measurements at Darwin, Australia – site description and calibration against in situ aircraft profiles. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 947-958.	1.2	131
118	Calibration of the Total Carbon Column Observing Network using aircraft profile data. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 1351-1362.	1.2	441
119	Train-borne measurements of tropical methane enhancements from ephemeral wetlands in Australia. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	8
120	Trace gas emissions from savanna fires in northern Australia. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	51
121	Dynamic Processes Governing Lower-Tropospheric H ₂ O/H ₂ O Ratios as Observed from Space and Ground. <i>Science</i> , 2009, 325, 1374-1377.	6.0	187
122	Reducing the impact of source brightness fluctuations on spectra obtained by Fourier-transform spectrometry. <i>Applied Optics</i> , 2007, 46, 4774.	2.1	80
123	Trace gas emissions from biomass burning inferred from aerosol optical depth. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	34