

# John P Burrows

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

744  
papers

30,296  
citations

83  
h-index

145  
g-index

836  
ext. papers

34,120  
ext. citations

4.9  
avg, IF

6.85  
L-index

#	Paper	IF	Citations
744	Total water vapour columns derived from Sentinel 5P using the AMC-DOAS method. <i>Atmospheric Measurement Techniques</i> , <b>2022</b> , 15, 297-320	4	0
743	Variability of nitrogen oxide emission fluxes and lifetimes estimated from Sentinel-5P TROPOMI observations. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 2745-2767	6.8	1
742	Simulating tropospheric BrO in the Arctic using an artificial neural network. <i>Atmospheric Environment</i> , <b>2022</b> , 276, 119032	5.3	
741	Overview: On the transport and transformation of pollutants in the outflow of major population centres [observational data from the EMERGe European intensive operational period in summer 2017. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 5877-5924	6.8	0
740	Combined UV and IR ozone profile retrieval from TROPOMI and CrIS measurements. <i>Atmospheric Measurement Techniques</i> , <b>2022</b> , 15, 2955-2978	4	0
739	A new snow bidirectional reflectance distribution function model in spectral regions from UV to SWIR: Model development and application to ground-based, aircraft and satellite observations. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2022</b> , 188, 269-285	11.8	0
738	Global total ozone recovery trends attributed to ozone-depleting substance (ODS) changes derived from five merged ozone datasets. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 6843-6859	6.8	4
737	Quantification of CH <sub>4</sub> coal mining emissions in Upper Silesia by passive airborne remote sensing observations with the Methane Airborne MAPper (MAMAP) instrument during the CO <sub>2</sub> and Methane (CoMet) campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 17345-17371	6.8	3
736	Changes in stratospheric aerosol extinction coefficient after the 2018 [Ambae eruption as seen by OMPS-LP and MAECHAM5-HAM. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 14871-14891	6.8	0
735	Can a regional-scale reduction of atmospheric CO <sub>2</sub> during the COVID-19 pandemic be detected from space? A case study for East China using satellite XCO <sub>2</sub> retrievals. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 2141-2166	4	11
734	The Unusual Stratospheric Arctic Winter 2019/20: Chemical Ozone Loss From Satellite Observations and TOMCAT Chemical Transport Model. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD034386	4.4	9
733	XCO <sub>2</sub> retrieval for GOSAT and GOSAT-2 based on the FOCAL algorithm. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 3837-3869	4	2
732	Systematic comparison of vectorial spherical radiative transfer models in limb scattering geometry. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 3953-3972	4	4
731	Measurement report: regional trends of stratospheric ozone evaluated using the Merged GRidded Dataset of Ozone Profiles (MEGRIDOP). <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 6707-6720	6.8	5
730	The retrieval of snow properties from SLSTR Sentinel-3 [Part 1: Method description and sensitivity study. <i>Cryosphere</i> , <b>2021</b> , 15, 2757-2780	5.5	5
729	The retrieval of snow properties from SLSTR Sentinel-3 [Part 2: Results and validation. <i>Cryosphere</i> , <b>2021</b> , 15, 2781-2802	5.5	5
728	On the use of satellite observations to fill gaps in the Halley station total ozone record. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 9829-9838	6.8	1

727	Modeling of inelastically scattered radiation: Rotational Raman scattering in the spherical Earth's atmosphere. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2021</b> , 268, 107611	2.1	1
726	Simulated reflectance above snow constrained by airborne measurements of solar radiation: implications for the snow grain morphology in the Arctic. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 369-389	4	2
725	Development of a small unmanned aircraft system to derive CO <sub>2</sub> emissions of anthropogenic point sources. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 153-172	4	4
724	Detection and quantification of CH <sub>4</sub> plumes using the WFM-DOAS retrieval on AVIRIS-NG hyperspectral data. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 1267-1291	4	3
723	Arctic Ozone Depletion in 2019/20: Roles of Chemistry, Dynamics and the Montreal Protocol. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL091911	4.9	18
722	Estimation of ship emission rates at a major shipping lane by long-path DOAS measurements. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 5791-5807	4	1
721	Total ozone column from Ozone Mapping and Profiler Suite Nadir Mapper (OMPS-NM) measurements using the broadband weighting function fitting approach (WFFA). <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 5771-5789	4	1
720	Ozone profile retrieval from nadir TROPOMI measurements in the UV range. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 6057-6082	4	5
719	A fast and accurate radiative transfer model for aerosol remote sensing. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2020</b> , 256, 107270	2.1	4
718	Comparison of tropospheric NO <sub>2</sub> columns from MAX-DOAS retrievals and regional air quality model simulations. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 2795-2823	6.8	7
717	Severe Californian wildfires in November 2018 observed from space: the carbon monoxide perspective. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 3317-3332	6.8	9
716	Unexpected long-range transport of glyoxal and formaldehyde observed from the Copernicus Sentinel-5 Precursor satellite during the 2018 Canadian wildfires. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 2057-2072	6.8	20
715	Airborne measurement of peroxy radicals using chemical amplification coupled with cavity ring-down spectroscopy: the PeRCEAS instrument. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 2577-2600	4	2
714	Implementation of an ice crystal single-scattering property database in the radiative transfer model SCIATRAN. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2020</b> , 253, 107118	2.1	5
713	Retrieval of Aerosol Optical Thickness in the Arctic Snow-Covered Regions Using Passive Remote Sensing: Impact of Aerosol Typing and Surface Reflection Model. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2020</b> , 58, 5117-5131	8.1	7
712	On the retrieval of aerosol optical depth over cryosphere using passive remote sensing. <i>Remote Sensing of Environment</i> , <b>2020</b> , 241, 111731	13.2	8
711	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> , <b>2020</b> , 13, 789-819	4	11
710	Optimised degradation correction for SCIAMACHY satellite solar measurements from 330 to 1600 nm by using the internal white light source. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 3893-3907	4	1

709	Spatial distribution of enhanced BrO and its relation to meteorological parameters in Arctic and Antarctic sea ice regions. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 12285-12312	6.8	2
708	Validation of XCO <sub>2</sub> and XCH <sub>4</sub> retrieved from a portable Fourier transform spectrometer with those from in situ profiles from aircraft-borne instruments. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 5149-5163	4	1
707	Stratospheric aerosol extinction profiles from SCIAMACHY solar occultation. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 5643-5666	4	
706	Long-term time series of Arctic tropospheric BrO derived from UV-VIS satellite remote sensing and its relation to first-year sea ice. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 11869-11892	6.8	7
705	Remote sensing of methane leakage from natural gas and petroleum systems revisited. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 9169-9182	6.8	25
704	Dual ground-based MAX-DOAS observations in Vienna, Austria: Evaluation of horizontal and temporal NO <sub>2</sub> , HCHO, and CHOCHO distributions and comparison with independent data sets. <i>Atmospheric Environment: X</i> , <b>2020</b> , 5, 100059	2.8	14
703	Retrieval of aerosol optical thickness and surface parameters based on multi-spectral and multi-viewing space-borne measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2020</b> , 256, 107311	2.1	1
702	Validation of Aura-OMI QA4ECV NO <sub>2</sub> climate data records with ground-based DOAS networks: the role of measurement and comparison uncertainties. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 8017-8045	6.8	13
701	Detection of outflow of formaldehyde and glyoxal from the African continent to the Atlantic Ocean with a MAX-DOAS instrument. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 10257-10278	6.8	9
700	Comparison of ground-based and satellite measurements of water vapour vertical profiles over Ellesmere Island, Nunavut. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 4039-4063	4	2
699	Towards monitoring localized CO <sub>2</sub> emissions from space: co-located regional CO <sub>2</sub> and NO <sub>2</sub> enhancements observed by the OCO-2 and S5P satellites. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 9371-9383	6.8	59
698	Full-azimuthal imaging-DOAS observations of NO <sub>2</sub> and O <sub>4</sub> during CINDI-2. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 4171-4190	4	5
697	Extending XBAER Algorithm to Aerosol and Cloud Condition. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2019</b> , 57, 8262-8275	8.1	3
696	Near-surface and path-averaged mixing ratios of NO <sub>2</sub> derived from car DOAS zenith-sky and tower DOAS off-axis measurements in Vienna: a case study. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 5853-5879	6.8	7
695	Dynamically controlled ozone decline in the tropical mid-stratosphere observed by SCIAMACHY. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 767-783	6.8	15
694	Merging of ozone profiles from SCIAMACHY, OMPS and SAGE II observations to study stratospheric ozone changes. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 2423-2444	4	8
693	The SPARC water vapour assessment II: profile-to-profile comparisons of stratospheric and lower mesospheric water vapour data sets obtained from satellites. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 2693-2732	4	10
692	First high-resolution BrO column retrievals from TROPOMI. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 2913-2932	4	11

691	Understanding MODIS dark-target collection 5 and 6 aerosol data over China: Effect of surface type, aerosol loading and aerosol absorption. <i>Atmospheric Research</i> , <b>2019</b> , 228, 161-175	5.4	6
690	Devastating Californian wildfires in November 2018 observed from space: the carbon monoxide perspective <b>2019</b> ,		1
689	Concept of small satellite UV/visible imaging spectrometer optimized for tropospheric NO <sub>2</sub> measurements in air quality monitoring. <i>Acta Astronautica</i> , <b>2019</b> , 160, 421-432	2.9	1
688	Distribution of volatile organic compounds over Indian subcontinent during winter: WRF-chem simulation versus observations. <i>Environmental Pollution</i> , <b>2019</b> , 252, 256-269	9.3	19
687	A study of the impact of spatial resolution on the estimation of particle matter concentration from the aerosol optical depth retrieved from satellite observations. <i>International Journal of Remote Sensing</i> , <b>2019</b> , 40, 7084-7112	3.1	10
686	Mesospheric nitric oxide model from SCIAMACHY data. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 2135-2147	6.8	3
685	A cloud identification algorithm over the Arctic for use with AATSR/BLSTR measurements. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 1059-1076	4	8
684	Stratospheric aerosol characteristics from space-borne observations: extinction coefficient and Ångström exponent. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 3485-3502	4	7
683	A Critical Evaluation of Deep Blue Algorithm Derived AVHRR Aerosol Product Over China. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 12173-12193	4.4	5
682	Modeling the Sources and Chemistry of Polar Tropospheric Halogens (Cl, Br, and I) Using the CAM-Chem Global Chemistry-Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2019</b> , 11, 2259-2289	7.1	17
681	Studies of the horizontal inhomogeneities in NO <sub>2</sub> concentrations above a shipping lane using ground-based multi-axis differential optical absorption spectroscopy (MAX-DOAS) measurements and validation with airborne imaging DOAS measurements. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 5959-5977	4	3
680	Global diffuse attenuation derived from vibrational Raman scattering detected in hyperspectral backscattered satellite spectra. <i>Optics Express</i> , <b>2019</b> , 27, A829-A855	3.3	4
679	Towards monitoring localized CO <sub>2</sub> emissions from space: co-located regional CO <sub>2</sub> and NO <sub>2</sub> enhancements observed by the OCO-2 and S5P satellites <b>2019</b> ,		1
678	A scientific algorithm to simultaneously retrieve carbon monoxide and methane from TROPOMI onboard Sentinel-5 Precursor. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 6771-6802	4	31
677	Total ozone trends from 1979 to 2016 derived from five merged observational datasets in the emergence into ozone recovery. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 2097-2117	6.8	83
676	XBAER-derived aerosol optical thickness from OLCI/Sentinel-3 observation. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 2511-2523	6.8	14
675	Water vapour and methane coupling in the stratosphere observed using SCIAMACHY solar occultation measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 4463-4476	6.8	7
674	Investigating missing sources of glyoxal over China using a regional air quality model (RAMS-CMAQ). <i>Journal of Environmental Sciences</i> , <b>2018</b> , 71, 108-118	6.4	7

673	The New SCIAMACHY Reference Solar Spectral Irradiance and Its Validation. <i>Solar Physics</i> , <b>2018</b> , 293, 1	2.6	6
672	The retrieval of ice cloud parameters from multi-spectral satellite observations of reflectance using a modified XBAER algorithm. <i>Remote Sensing of Environment</i> , <b>2018</b> , 215, 128-144	13.2	13
671	Tropospheric Ozone Assessment Report: Present-day distribution and trends of tropospheric ozone relevant to climate and global atmospheric chemistry model evaluation. <i>Elementa</i> , <b>2018</b> , 6,	3.6	160
670	Copernicus Climate Change Service (C3S) Global Satellite Observations of Atmospheric Carbon Dioxide and Methane. <i>Advances in Astronautics Science and Technology</i> , <b>2018</b> , 1, 57-60	0.3	12
669	A study of the approaches used to retrieve aerosol extinction, as applied to limb observations made by OSIRIS and SCIAMACHY. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 3433-3445	4	15
668	Computation and analysis of atmospheric carbon dioxide annual mean growth rates from satellite observations during 2003-2016. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 17355-17370	6.8	15
667	Computation and analysis of atmospheric carbon dioxide annual mean growth rates from satellite observations during 2003-2016 <b>2018</b> ,		1
666	Harmonisation and trends of 20-year tropical tropospheric ozone data. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 9189-9205	6.8	5
665	GOME-2A retrievals of tropospheric NO <sub>2</sub> in different spectral ranges – influence of penetration depth. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 2769-2795	4	4
664	The SPARC water vapour assessment II: comparison of stratospheric and lower mesospheric water vapour time series observed from satellites. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 4435-4463	4	10
663	On the Cause of Recent Variations in Lower Stratospheric Ozone. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 5718-5726	4.9	56
662	Retrieval of O <sub>2</sub> and O <sub>2</sub> <sup>1</sup> and O <sub>2</sub> <sup>2</sup> volume emission rates in the mesosphere and lower thermosphere using SCIAMACHY MLT limb scans. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 173-187	4	4
661	In-flight calibration of SCIAMACHY's polarization sensitivity. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 265-289	4	3
660	Airborne remote sensing and in situ measurements of atmospheric CO <sub>2</sub> to quantify point source emissions. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 721-739	4	17
659	Aerosol particle size distribution in the stratosphere retrieved from SCIAMACHY limb measurements. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 2085-2100	4	18
658	Increased aerosol content in the atmosphere over Ukraine during summer 2010. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 2101-2118	4	15
657	Retrieval of ozone profiles from OMPS limb scattering observations. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 2135-2149	4	14
656	Retrieval of aerosol optical properties using MERIS observations: Algorithm and some first results. <i>Remote Sensing of Environment</i> , <b>2017</b> , 197, 125-140	13.2	37



655	CO2 emission of Indonesian fires in 2015 estimated from satellite-derived atmospheric CO2 concentrations. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 1537-1544	4.9	46
654	Global satellite observations of column-averaged carbon dioxide and methane: The GHG-CCI XCO2 and XCH4 CRDP3 data set. <i>Remote Sensing of Environment</i> , <b>2017</b> , 203, 276-295	13.2	35
653	Radiative transfer modeling through terrestrial atmosphere and ocean accounting for inelastic processes: Software package SCIATRAN. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2017</b> , 194, 65-85	2.1	17
652	A Cloud masking algorithm for the XBAER aerosol retrieval using MERIS data. <i>Remote Sensing of Environment</i> , <b>2017</b> , 197, 141-160	13.2	33
651	Methane emissions from a Californian landfill, determined from airborne remote sensing and in situ measurements. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 3429-3452	4	23
650	NO <sub>2</sub> pollution over India observed from space – the impact of rapid economic growth, and a recent decline <b>2017</b> ,		17
649	Comparison of global datasets of sodium densities in the mesosphere and lower thermosphere from GOMOS, SCIAMACHY and OSIRIS measurements and WACCM model simulations from 2008 to 2012. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 2989-3006	4	6
648	The SPARC water vapour assessment II: comparison of annual, semi-annual and quasi-biennial variations in stratospheric and lower mesospheric water vapour observed from satellites. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 1111-1137	4	19
647	A Fast Atmospheric Trace Gas Retrieval for Hyperspectral Instruments Approximating Multiple Scattering Part 2: Application to XCO2 Retrievals from OCO-2. <i>Remote Sensing</i> , <b>2017</b> , 9, 1102	5	15
646	Retrieval of nitric oxide in the mesosphere from SCIAMACHY nominal limb spectra. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 209-220	4	4
645	Harmonisation and trends of 20-years tropical tropospheric ozone data <b>2017</b> ,		1
644	Polarized radiative transfer through terrestrial atmosphere accounting for rotational Raman scattering. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2017</b> , 200, 70-89	2.1	4
643	How Much CO2 Is Taken Up by the European Terrestrial Biosphere?. <i>Bulletin of the American Meteorological Society</i> , <b>2017</b> , 98, 665-671	6.1	23
642	Tropospheric ozone maxima observed over the Arabian Sea during the pre-monsoon. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 4915-4930	6.8	3
641	Monitoring shipping emissions in the German Bight using MAX-DOAS measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 10997-11023	6.8	18
640	Enhanced trans-Himalaya pollution transport to the Tibetan Plateau by cut-off low systems. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 3083-3095	6.8	28
639	Space-based observation of volcanic iodine monoxide. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 4857-4870	6.8	13
638	Satellite-derived methane hotspot emission estimates using a fast data-driven method. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 5751-5774	6.8	41

637	Investigating differences in DOAS retrieval codes using MAD-CAT campaign data. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 955-978	4	17
636	High-resolution airborne imaging DOAS measurements of NO <sub>2</sub> ; above Bucharest during AROMAT. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 1831-1857	4	16
635	Improved pointing information for SCIAMACHY from in-flight measurements of the viewing directions towards sun and moon. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 2413-2423	4	2
634	Comparison of tropospheric NO <sub>2</sub> columns from MAX-DOAS retrievals and regional air quality model simulations <b>2017</b> ,		2
633	XBAER derived aerosol optical thickness from OLCI/Sentinel-3 observation <b>2017</b> ,		1
632	MERLIN: A French-German Space Lidar Mission Dedicated to Atmospheric Methane. <i>Remote Sensing</i> , <b>2017</b> , 9, 1052	5	43
631	A Fast Atmospheric Trace Gas Retrieval for Hyperspectral Instruments Approximating Multiple Scattering Part 1: Radiative Transfer and a Potential OCO-2 XCO <sub>2</sub> Retrieval Setup. <i>Remote Sensing</i> , <b>2017</b> , 9, 1159	5	15
630	Reduced Methane Emissions from Santa Barbara Marine Seeps. <i>Remote Sensing</i> , <b>2017</b> , 9, 1162	5	1
629	Retrieval of aerosol optical properties using MERIS observations: Algorithm and some first results. <i>Remote Sensing of Environment</i> , <b>2017</b> , 197, 125-140	13.2	12
628	Global cloud top height retrieval using SCIAMACHY limb spectra: model studies and first results. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 793-815	4	5
627	Sensitivity of polar stratospheric cloud formation to changes in water vapour and temperature. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 101-121	6.8	8
626	Estimates of free-tropospheric NO <sub>2</sub> and HCHO mixing ratios derived from high-altitude mountain MAX-DOAS observations at midlatitudes and in the tropics. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 2803-2817	6.8	16
625	An exemplary case of a bromine explosion event linked to cyclone development in the Arctic. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 1773-1788	6.8	19
624	Ability of the 4-D-Var analysis of the GOSAT BESD XCO <sub>2</sub> retrievals to characterize atmospheric CO <sub>2</sub> at large and synoptic scales. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 1653-1671	6.8	23
623	Global tropospheric ozone variations from 2003 to 2011 as seen by SCIAMACHY. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 417-436	6.8	25
622	Tracking city CO <sub>2</sub> emissions from space using a high-resolution inverse modelling approach: a case study for Berlin, Germany. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 9591-9610	6.8	37
621	The response of mesospheric NO to geomagnetic forcing in 2002-2012 as seen by SCIAMACHY. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 3603-3620	2.6	18
620	Validation of ACE-FTS version 3.5 NO <sub>2</sub> species profiles using correlative satellite measurements. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 5781-5810	4	19



619	TIBAGS: Tropospheric Iodine Monoxide and Its Coupling to Biospheric and Atmospheric Variables – Global Satellite Study. <i>Springer Earth System Sciences</i> , <b>2016</b> , 15-34	0.3	
618	Satellite-derived methane hotspot emission estimates using a fast data-driven method <b>2016</b> ,		2
617	UTLS water vapour from SCIAMACHY limb measurements V3.01 (2002-2012). <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 133-158	4	12
616	Stratospheric CH <sub>4</sub> and CO <sub>2</sub> profiles derived from SCIAMACHY solar occultation measurements. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 1485-1503 <sup>4</sup>		9
615	Retrieval of sodium number density profiles in the mesosphere and lower thermosphere from SCIAMACHY limb emission measurements. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 295-311	4	5
614	Tropical tropospheric ozone columns from nadir retrievals of GOME-1/ERS-2, SCIAMACHY/Envisat, and GOME-2/MetOp-A (1996–2012). <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 3407-3427	4	7
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599	Improved stratospheric aerosol extinction profiles from SCIAMACHY: validation and sample results. <i>Atmospheric Measurement Techniques</i> , <b>2015</b> , 8, 5223-5235	4	25
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569	Liquid water absorption and scattering effects in DOAS retrievals over oceans. <i>Atmospheric Measurement Techniques</i> , <b>2014</b> , 7, 4203-4221	4	22
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536	High spectral resolution ozone absorption cross-sections [Part 1: Measurements, data analysis and comparison with previous measurements around 293 K <b>2013</b> ,		10
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531	Peroxy radical detection for airborne atmospheric measurements using cavity enhanced absorption spectroscopy of NO <sub>2</sub> ; <b>2013</b> ,		1
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53	Study of satellite retrieved aerosol optical depth spatial resolution effect on particulate matter concentration prediction	7
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