

John P Burrows

List of Publications by Year in descending order

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654
papers

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4653

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docs citations

836
times ranked

14562
citing authors

#	ARTICLE	IF	CITATIONS
1	SCIAMACHY: Mission Objectives and Measurement Modes. <i>Journals of the Atmospheric Sciences</i> , 1999, 56, 127-150.	0.6	1,715
2	Increase in tropospheric nitrogen dioxide over China observed from space. <i>Nature</i> , 2005, 437, 129-132.	13.7	1,300
3	The Global Ozone Monitoring Experiment (GOME): Mission Concept and First Scientific Results. <i>Journals of the Atmospheric Sciences</i> , 1999, 56, 151-175.	0.6	1,105
4	The nitrate radical: Physics, chemistry, and the atmosphere. <i>Atmospheric Environment Part A General Topics</i> , 1991, 25, 1-203.	1.3	646
5	Measurements of molecular absorption spectra with the SCIAMACHY pre-flight model: instrument characterization and reference data for atmospheric remote-sensing in the 230-2380 nm region. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003, 157, 167-184.	2.0	605
6	The Orbiting Carbon Observatory (OCO) mission. <i>Advances in Space Research</i> , 2004, 34, 700-709.	1.2	596
7	Halogens and their role in polar boundary-layer ozone depletion. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4375-4418.	1.9	593
8	Global budgets of atmospheric glyoxal and methylglyoxal, and implications for formation of secondary organic aerosols. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	575
9	NO _x emission trends for China, 1995-2004: The view from the ground and the view from space. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	422
10	SCIAMACHY's scanning imaging absorption spectrometer for atmospheric cartography. <i>Acta Astronautica</i> , 1995, 35, 445-451.	1.7	403
11	ATMOSPHERIC REMOTE-SENSING REFERENCE DATA FROM GOME-2. TEMPERATURE-DEPENDENT ABSORPTION CROSS SECTIONS OF O ₃ IN THE 231-794NM RANGE. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1999, 61, 509-517.	1.1	397
12	Tropospheric NO ₂ from GOME measurements. <i>Advances in Space Research</i> , 2002, 29, 1673-1683.	1.2	361
13	Antarctic Springtime Depletion of Atmospheric Mercury. <i>Environmental Science & Technology</i> , 2002, 36, 1238-1244.	4.6	307
14	High spectral resolution ozone absorption cross-sections - Part 2: Temperature dependence. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 625-636.	1.2	297
15	Global estimates of CO sources with high resolution by adjoint inversion of multiple satellite datasets (MOPITT, AIRS, SCIAMACHY, TES). <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 855-876.	1.9	288
16	SCIATRAN 2.0 - A new radiative transfer model for geophysical applications in the 175-2400nm spectral region. <i>Advances in Space Research</i> , 2005, 36, 1015-1019.	1.2	281
17	Simultaneous global observations of glyoxal and formaldehyde from space. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	265
18	GOME observations of tropospheric BrO in northern hemispheric spring and summer 1997. <i>Geophysical Research Letters</i> , 1998, 25, 2683-2686.	1.5	264

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19	MAX-DOAS measurements of atmospheric trace gases in Ny-Ålesund - Radiative transfer studies and their application. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 955-966.	1.9	251
20	Tropospheric Ozone Assessment Report: Present-day distribution and trends of tropospheric ozone relevant to climate and global atmospheric chemistry model evaluation. <i>Elementa</i> , 2018, 6, .	1.1	240
21	Megacities as hot spots of air pollution in the East Mediterranean. <i>Atmospheric Environment</i> , 2011, 45, 1223-1235.	1.9	239
22	Atmospheric methane and carbon dioxide from SCIAMACHY satellite data: initial comparison with chemistry and transport models. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 941-962.	1.9	238
23	Long-term changes of tropospheric NO ₂ over megacities derived from multiple satellite instruments. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4145-4169.	1.9	237
24	Absorption cross-sections of NO ₂ in the UV and visible region (200 – 700 nm) at 298 K. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1987, 40, 195-217.	2.0	232
25	Radiative transfer through terrestrial atmosphere and ocean: Software package SCIATRAN. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 133, 13-71.	1.1	225
26	Satellite-observed U.S. power plant NO _x emission reductions and their impact on air quality. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	219
27	A remote sensing technique for global monitoring of power plant CO ₂ emissions from space and related applications. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 781-811.	1.2	219
28	High-resolution absorption cross-section of glyoxal in the UV ^{vis} and IR spectral ranges. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 172, 35-46.	2.0	218
29	ATMOSPHERIC REMOTE-SENSING REFERENCE DATA FROM GOME: PART 1. TEMPERATURE-DEPENDENT ABSORPTION CROSS-SECTIONS OF NO ₂ IN THE 231 – 794 nm RANGE. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1998, 60, 1025-1031.	1.1	215
30	Frost flowers on sea ice as a source of sea salt and their influence on tropospheric halogen chemistry. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	202
31	New ultraviolet absorption cross-sections of BrO at atmospheric temperatures measured by time-windowing Fourier transform spectroscopy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 168, 117-132.	2.0	201
32	The temperature dependence (203 – 293 K) of the absorption cross sections of O ₃ in the 230 – 850 nm region measured by Fourier-transform spectroscopy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001, 143, 1-9.	2.0	196
33	RING EFFECT: IMPACT OF ROTATIONAL RAMAN SCATTERING ON RADIATIVE TRANSFER IN EARTH'S ATMOSPHERE. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1998, 60, 943-961.	1.1	195
34	A method for improved SCIAMACHY CO ₂ retrieval in the presence of optically thin clouds. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 209-232.	1.2	194
35	The temperature and pressure dependence of the absorption cross-sections of NO ₂ in the 250 – 800 nm region measured by Fourier-transform spectroscopy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002, 149, 1-7.	2.0	186
36	MAX-DOAS measurements of formaldehyde in the Po-Valley. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 909-918.	1.9	184

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37	Tropospheric sulfur dioxide observed by the ERS-2 GOME instrument. <i>Geophysical Research Letters</i> , 1998, 25, 4177-4180.	1.5	178
38	The influence of natural and anthropogenic secondary sources on the glyoxal global distribution. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 4965-4981.	1.9	174
39	Peroxy radicals from night-time reaction of NO ₃ with organic compounds. <i>Nature</i> , 1990, 348, 147-149.	13.7	171
40	Comparison of box-air-mass-factors and radiances for Multiple-Axis Differential Optical Absorption Spectroscopy (MAX-DOAS) geometries calculated from different UV/visible radiative transfer models. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 1809-1833.	1.9	168
41	Carbon monoxide, methane and carbon dioxide columns retrieved from SCIAMACHY by WFM-DOAS: year 2003 initial data set. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 3313-3329.	1.9	162
42	A near-infrared optimized DOAS method for the fast global retrieval of atmospheric CH ₄ , CO, CO ₂ , H ₂ O, and N ₂ O total column amounts from SCIAMACHY Envisat-1 nadir radiances. <i>Journal of Geophysical Research</i> , 2000, 105, 15231-15245.	3.3	161
43	Long-term analysis of carbon dioxide and methane column-averaged mole fractions retrieved from SCIAMACHY. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2863-2880.	1.9	158
44	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
45	Analysis for BrO in zenith-sky spectra: An intercomparison exercise for analysis improvement. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 10-1.	3.3	152
46	Quantitative observation of cyanobacteria and diatoms from space using PhytoDOAS on SCIAMACHY data. <i>Biogeosciences</i> , 2009, 6, 751-764.	1.3	149
47	Space-based near-infrared CO ₂ measurements: Testing the Orbiting Carbon Observatory retrieval algorithm and validation concept using SCIAMACHY observations over Park Falls, Wisconsin. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	146
48	Three years of greenhouse gas column-averaged dry air mole fractions retrieved from satellite – Part 1: Carbon dioxide. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3827-3853.	1.9	146
49	NO ₂ columns in the western United States observed from space and simulated by a regional chemistry model and their implications for NO _x emissions. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	146
50	The continental source of glyoxal estimated by the synergistic use of spaceborne measurements and inverse modelling. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8431-8446.	1.9	146
51	High spectral resolution ozone absorption cross-sections – Part 1: Measurements, data analysis and comparison with previous measurements around 293 K. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 609-624.	1.2	146
52	Satellite measurements of NO ₂ from international shipping emissions. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	144
53	Ozone profiles from GOME satellite data: Algorithm description and first validation. <i>Journal of Geophysical Research</i> , 1999, 104, 8263-8280.	3.3	143
54	Atmospheric carbon gases retrieved from SCIAMACHY by WFM-DOAS: version 0.5 CO and CH ₄ and impact of calibration improvements on CO ₂ retrieval. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 2727-2751.	1.9	143

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55	Observations of iodine monoxide columns from satellite. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 637-653.	1.9	135
56	State of the Climate in 2010. <i>Bulletin of the American Meteorological Society</i> , 2011, 92, S1-S236.	1.7	135
57	GOMETRAN: A radiative transfer model for the satellite project GOME, the plane-parallel version. <i>Journal of Geophysical Research</i> , 1997, 102, 16683-16695.	3.3	134
58	Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE). <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 287-343.	1.9	134
59	An improved NO ₂ retrieval for the GOME-2 satellite instrument. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 1147-1159.	1.2	134
60	Ozone in the remote marine boundary layer: A possible role for halogens. <i>Journal of Geophysical Research</i> , 1999, 104, 21385-21395.	3.3	133
61	State of the Climate in 2012. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, S1-S258.	1.7	129
62	Remote sensing of fugitive methane emissions from oil and gas production in North American tight geologic formations. <i>Earth's Future</i> , 2014, 2, 548-558.	2.4	129
63	Inverse modelling of the spatial distribution of NO _x emissions on a continental scale using satellite data. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1747-1770.	1.9	127
64	Fire in the Air: Biomass Burning Impacts in a Changing Climate. <i>Critical Reviews in Environmental Science and Technology</i> , 2013, 43, 40-83.	6.6	125
65	Halogen oxides: Radicals, sources and reservoirs in the laboratory and in the atmosphere. <i>Atmospheric Environment</i> , 1995, 29, 2677-2881.	1.9	123
66	Systematic analysis of interannual and seasonal variations of model-simulated tropospheric NO ₂ in Asia and comparison with GOME-satellite data. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 1671-1681.	1.9	122
67	The Brewer-Dobson circulation and total ozone from seasonal to decadal time scales. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11221-11235.	1.9	121
68	Tropospheric ozone over the tropical Atlantic: A satellite perspective. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	119
69	Three years of greenhouse gas column-averaged dry air mole fractions retrieved from satellite – Part 2: Methane. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 443-465.	1.9	119
70	Total ozone trends from 1979 to 2016 derived from five merged observational datasets – the emergence into ozone recovery. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2097-2117.	1.9	118
71	Total ozone retrieval from GOME UV spectral data using the weighting function DOAS approach. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 1015-1025.	1.9	114
72	GOME-2 observations of oxygenated VOCs: what can we learn from the ratio glyoxal to formaldehyde on a global scale?. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10145-10160.	1.9	114

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73	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
74	Gome measurements of stratospheric and tropospheric BrO. <i>Advances in Space Research</i> , 2002, 29, 1667-1672.	1.2	110
75	A study of the UV-visible absorption spectrum of molecular chlorine. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1993, 70, 205-214.	2.0	108
76	First direct observation of the atmospheric CO ₂ ; year-to-year increase from space. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4249-4256.	1.9	108
77	Remote Sensing of Tropospheric Pollution from Space. <i>Bulletin of the American Meteorological Society</i> , 2008, 89, 805-822.	1.7	108
78	Temporal and spatial variability of glyoxal as observed from space. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 4485-4504.	1.9	108
79	Towards monitoring localized CO ₂ emissions from space: co-located regional CO ₂ and NO ₂ enhancements observed by the OCO-2 and S5P satellites. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9371-9383.	1.9	107
80	A numerical radiative transfer model for a spherical planetary atmosphere: combined differential-integral approach involving the Picard iterative approximation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2001, 69, 491-512.	1.1	106
81	On the possible causes of recent increases in northern hemispheric total ozone from a statistical analysis of satellite data from 1979 to 2003. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1165-1180.	1.9	103
82	On the improvement of NO ₂ satellite retrievals - aerosol impact on the airmass factors. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 475-493.	1.2	103
83	Kinetics and mechanism of the disproportionation of hydroperoxyl radical in the gas phase. <i>The Journal of Physical Chemistry</i> , 1979, 83, 2560-2568.	2.9	102
84	Sciatran - a new radiative transfer model for geophysical applications in the 240-2400 NM spectral region: the pseudo-spherical version. <i>Advances in Space Research</i> , 2002, 29, 1831-1835.	1.2	101
85	Decreasing emissions of NO _x relative to CO ₂ in East Asia inferred from satellite observations. <i>Nature Geoscience</i> , 2014, 7, 792-795.	5.4	99
86	Evolution of stratospheric ozone and water vapour time series studied with satellite measurements. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6055-6075.	1.9	98
87	Satellite measurements of atmospheric ozone profiles, including tropospheric ozone, from ultraviolet/visible measurements in the nadir geometry: a potential method to retrieve tropospheric ozone. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1997, 57, 467-476.	1.1	97
88	Global tropospheric NO ₂ column distributions: Comparing three-dimensional model calculations with GOME measurements. <i>Journal of Geophysical Research</i> , 2001, 106, 12643-12660.	3.3	95
89	Validation of SCIAMACHY tropospheric NO ₂ columns with AMAXDOAS measurements. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 1039-1051.	1.9	94
90	Ozone and temperature trends in the upper stratosphere at five stations of the Network for the Detection of Atmospheric Composition Change. <i>International Journal of Remote Sensing</i> , 2009, 30, 3875-3886.	1.3	94

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91	Carbon Monitoring Satellite (CarbonSat): assessment of atmospheric CO ₂ and CH ₄ retrieval errors by error parameterization. Atmospheric Measurement Techniques, 2013, 6, 3477-3500.	1.2	94
92	Total ozone during the unusual Antarctic winter of 2002. Geophysical Research Letters, 2003, 30, .	1.5	93
93	NO ₂ and BrO vertical profile retrieval from SCIAMACHY limb measurements: Sensitivity studies. Advances in Space Research, 2005, 36, 846-854.	1.2	93
94	Dynamical control of NH and SH winter/spring total ozone from GOME observations in 1995–2002. Geophysical Research Letters, 2003, 30, .	1.5	92
95	Carbonate precipitation in brine – a potential trigger for tropospheric ozone depletion events. Atmospheric Chemistry and Physics, 2006, 6, 4653-4658.	1.9	92
96	Ozone depletion during the solar proton events of October/November 2003 as seen by SCIAMACHY. Journal of Geophysical Research, 2005, 110, .	3.3	90
97	Analysis of global water vapour trends from satellite measurements in the visible spectral range. Atmospheric Chemistry and Physics, 2008, 8, 491-504.	1.9	90
98	Variations of the increasing trend of tropospheric NO ₂ over central east China during the past decade. Atmospheric Environment, 2007, 41, 4865-4876.	1.9	89
99	MAMAP – a new spectrometer system for column-averaged methane and carbon dioxide observations from aircraft: retrieval algorithm and first inversions for point source emission rates. Atmospheric Measurement Techniques, 2011, 4, 1735-1758.	1.2	89
100	Calibrated chemical amplifier for atmospheric RO _x measurements. Analytical Chemistry, 1991, 63, 2048-2057.	3.2	88
101	A semianalytical cloud retrieval algorithm using backscattered radiation in 0.4–2.4 μm spectral region. Journal of Geophysical Research, 2003, 108, AAC 4-1.	3.3	88
102	Economic crisis detected from space: Air quality observations over Athens/Greece. Geophysical Research Letters, 2013, 40, 458-463.	1.5	88
103	MERLIN: A French-German Space Lidar Mission Dedicated to Atmospheric Methane. Remote Sensing, 2017, 9, 1052.	1.8	88
104	On the Cause of Recent Variations in Lower Stratospheric Ozone. Geophysical Research Letters, 2018, 45, 5718-5726.	1.5	87
105	Evidence of a natural marine source of oxalic acid and a possible link to glyoxal. Journal of Geophysical Research, 2011, 116, .	3.3	86
106	Atmospheric greenhouse gases retrieved from SCIAMACHY: comparison to ground-based FTS measurements and model results. Atmospheric Chemistry and Physics, 2012, 12, 1527-1540.	1.9	86
107	Evaluations of NO _x and highly reactive VOC emission inventories in Texas and their implications for ozone plume simulations during the Texas Air Quality Study 2006. Atmospheric Chemistry and Physics, 2011, 11, 11361-11386.	1.9	85
108	Trend analysis of aerosol optical thickness and Å...ngstrÅm exponent derived from the global AERONET spectral observations. Atmospheric Measurement Techniques, 2012, 5, 1271-1299.	1.2	85

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109	Global carbon monoxide as retrieved from SCIAMACHY by WFM-DOAS. Atmospheric Chemistry and Physics, 2004, 4, 1945-1960.	1.9	84
110	Three years of global carbon monoxide from SCIAMACHY: comparison with MOPITT and first results related to the detection of enhanced CO over cities. Atmospheric Chemistry and Physics, 2007, 7, 2399-2411.	1.9	84
111	Satellite measurement based estimates of decadal changes in European nitrogen oxides emissions. Atmospheric Chemistry and Physics, 2008, 8, 2623-2641.	1.9	84
112	First retrieval of global water vapour column amounts from SCIAMACHY measurements. Atmospheric Chemistry and Physics, 2004, 4, 111-125.	1.9	83
113	Satellite-inferred European carbon sink larger than expected. Atmospheric Chemistry and Physics, 2014, 14, 13739-13753.	1.9	83
114	Analysis of tropospheric NO _x over Asia using the model of atmospheric transport and chemistry (MATCH-MPIC) and GOME-satellite observations. Atmospheric Environment, 2004, 38, 581-596.	1.9	82
115	Satellite measurements of daily variations in soil NO _x emissions. Geophysical Research Letters, 2005, 32, .	1.5	82
116	Exploring the missing source of glyoxal (CHOCHO) over China. Geophysical Research Letters, 2012, 39, .	1.5	82
117	Intercomparison of BrO measurements from ERS-2 GOME, ground-based and balloon platforms. Advances in Space Research, 2002, 29, 1661-1666.	1.2	80
118	Spectroscopic studies of the I ₂ O ₃ photochemistry. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 176, 50-67.	2.0	79
119	Global observations of stratospheric bromine monoxide from SCIAMACHY. Geophysical Research Letters, 2005, 32, .	1.5	79
120	Total ozone trends and variability during 1979-2012 from merged data sets of various satellites. Atmospheric Chemistry and Physics, 2014, 14, 7059-7074.	1.9	79
121	Intercomparison of oxygenated volatile organic compound measurements at the SAPHIR atmosphere simulation chamber. Journal of Geophysical Research, 2008, 113, .	3.3	78
122	MAMAP - a new spectrometer system for column-averaged methane and carbon dioxide observations from aircraft: instrument description and performance analysis. Atmospheric Measurement Techniques, 2011, 4, 215-243.	1.2	78
123	Formaldehyde and nitrogen dioxide over the remote western Pacific Ocean: SCIAMACHY and GOME-2 validation using ship-based MAX-DOAS observations. Atmospheric Chemistry and Physics, 2012, 12, 11179-11197.	1.9	76
124	SCIAMACHY formaldehyde observations: constraint for isoprene emission estimates over Europe?. Atmospheric Chemistry and Physics, 2009, 9, 1647-1664.	1.9	74
125	Remote sensing of methane leakage from natural gas and petroleum systems revisited. Atmospheric Chemistry and Physics, 2020, 20, 9169-9182.	1.9	74
126	Large loss of total ozone during the Arctic winter of 1999/2000. Geophysical Research Letters, 2000, 27, 3473-3476.	1.5	73

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127	Anthropogenic carbon dioxide source areas observed from space: assessment of regional enhancements and trends. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2445-2454.	1.9	73
128	Changes in atmospheric aerosol loading retrieved from space-based measurements during the past decade. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6881-6902.	1.9	72
129	Retrieval of atmospheric constituents in the uv-visible: a new quasi-analytical approach for the calculation of weighting functions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1998, 60, 277-299.	1.1	71
130	Atmospheric water vapor amounts retrieved from GOME satellite data. <i>Geophysical Research Letters</i> , 1999, 26, 1841-1844.	1.5	71
131	Pole-to-pole validation of GOME WFDOAS total ozone with groundbased data. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 1341-1355.	1.9	71
132	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
133	Satellite observations of long range transport of a large BrO plume in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 6515-6526.	1.9	70
134	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
135	A study of the UV-visible absorption spectra of Br ₂ and BrCl. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1994, 83, 179-192.	2.0	69
136	Kinetics and mechanism of the photooxidation of formaldehyde. 2. Molecular modulation studies. <i>The Journal of Physical Chemistry</i> , 1989, 93, 2375-2382.	2.9	68
137	BrO emission from volcanoes: A survey using GOME and SCIAMACHY measurements. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	68
138	Multi-annual changes of NO _x emissions in megacity regions: nonlinear trend analysis of satellite measurement based estimates. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8481-8498.	1.9	68
139	Investigation of NO _x emissions and NO _x -related chemistry in East Asia using CMAQ-predicted and GOME-derived NO ₂ columns. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 1017-1036.	1.9	67
140	On the dependence of the OH [*] Meinel emission altitude on vibrational level: SCIAMACHY observations and model simulations. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8813-8828.	1.9	67
141	Quantification of methane emission rates from coal mine ventilation shafts using airborne remote sensing data. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 151-166.	1.2	67
142	Peroxy radical and related trace gas measurements in the boundary layer above the Atlantic Ocean. <i>Journal of Geophysical Research</i> , 2001, 106, 5457-5477.	3.3	66
143	The Ozone Hole Breakup in September 2002 as Seen by SCIAMACHY on ENVISAT. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 721-734.	0.6	66
144	Measurements of nitrogen dioxide total column amounts using a Brewer double spectrophotometer in direct Sun mode. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	66

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145	SO ₂ Retrieval from SCIAMACHY using the Weighting Function DOAS (WFDOAS) technique: comparison with Standard DOAS retrieval. Atmospheric Chemistry and Physics, 2008, 8, 6137-6145.	1.9	66
146	Stratospheric ozone trends and variability as seen by SCIAMACHY from 2002 to 2012. Atmospheric Chemistry and Physics, 2014, 14, 831-846.	1.9	66
147	Comparison of model-simulated tropospheric NO ₂ over China with GOME-satellite data. Atmospheric Environment, 2006, 40, 593-604.	1.9	65
148	A global stratospheric bromine monoxide climatology based on the BASCOE chemical transport model. Atmospheric Chemistry and Physics, 2009, 9, 831-848.	1.9	65
149	Validation of NO ₂ and NO from the Atmospheric Chemistry Experiment (ACE). Atmospheric Chemistry and Physics, 2008, 8, 5801-5841.	1.9	64
150	Title is missing!. Journal of Atmospheric Chemistry, 1999, 32, 281-314.	1.4	63
151	Evaluation of long-term tropospheric NO ₂ data obtained by GOME over East Asia in 1996–2002. Geophysical Research Letters, 2005, 32, .	1.5	63
152	Satellite-derived methane hotspot emission estimates using a fast data-driven method. Atmospheric Chemistry and Physics, 2017, 17, 5751-5774.	1.9	63
153	Comparison of measurements and model calculations of stratospheric bromine monoxide. Journal of Geophysical Research, 2002, 107, ACH 11-1.	3.3	62
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