Heinrich Bovensmann

List of Publications by Year
in descending order

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181 papers	9,777 citations	47409 49 h-index	60403 85 g-index
263 all docs	263 docs citations	263 times ranked	6381 citing authors

#	Article	IF	Citations
1	Total water vapour columns derived from Sentinel 5P using the AMC-DOAS method. Atmospheric Measurement Techniques, 2022, 15, 297-320.	1.2	5
2	Retrieval of greenhouse gases from GOSAT and GOSAT-2 using the FOCAL algorithm. Atmospheric Measurement Techniques, 2022, 15, 3401-3437.	1.2	10
3	Development of a small unmanned aircraft system to derive CO₂ emissions of anthropogenic point sources. Atmospheric Measurement Techniques, 2021, 14, 153-172.	1.2	17
4	Detection and quantification of CH₄ plumes using the WFM-DOAS retrieval on AVIRIS-NG hyperspectral data. Atmospheric Measurement Techniques, 2021, 14, 1267-1291.	1.2	16
5	Can a regional-scale reduction of atmospheric CO₂ during the COVID-19 pandemic be detected from space? A case study for East China using satellite XCO₂ retrievals. Atmospheric Measurement Techniques, 2021, 14, 2141-2166.	1.2	28
6	XCO₂ retrieval for GOSAT and GOSAT-2 based on the FOCAL algorithm. Atmospheric Measurement Techniques, 2021, 14, 3837-3869.	1.2	15
7	Quantification of CH₄ coal mining emissions in Upper Silesia by passive airborne remote sensing observations with the Methane Airborne MAPper (MAMAP) instrument during the CO₂ and Methane (CoMet) campaign. Atmospheric Chemistry and Physics, 2021, 21, 17345-17371.	1.9	16
8	Severe Californian wildfires in November 2018 observed from space: the carbon monoxide perspective. Atmospheric Chemistry and Physics, 2020, 20, 3317-3332.	1.9	27
9	Ensemble-based satellite-derived carbon dioxide and methane column-averaged dry-air mole fraction data sets (2003â€“2018) for carbon and climate applications. Atmospheric Measurement Techniques, 2020, 13, 789-819.	1.2	22
10	Remote sensing of methane leakage from natural gas and petroleum systems revisited. Atmospheric Chemistry and Physics, 2020, 20, 9169-9182.	1.9	74
11	CH4 and CO2 IPDA Lidar Measurements During the Comet 2018 Airborne Field Campaign. EPJ Web of Conferences, 2020, 237, 03005.	0.1	1
12	Stratospheric aerosol extinction profiles from SCIAMACHY solar occultation. Atmospheric Measurement Techniques, 2020, 13, 5643-5666.	1.2	1
13	Stratospheric aerosol characteristics from space-borne observations: extinction coefficient and Ã…ngstrÃ¶m exponent. Atmospheric Measurement Techniques, 2019, 12, 3485-3502.	1.2	11
14	Towards monitoring localized CO₂ emissions from space: co-located regional CO₂ and NO₂ enhancements observed by the OCO-2 and S5P satellites. Atmospheric Chemistry and Physics, 2019, 19, 9371-9383.	1.9	107
15	A scientific algorithm to simultaneously retrieve carbon monoxide and methane from TROPOMI onboard Sentinel-5 Precursor. Atmospheric Measurement Techniques, 2019, 12, 6771-6802.	1.2	71
16	Water vapour and methane coupling in the stratosphere observed using SCIAMACHY solar occultation measurements. Atmospheric Chemistry and Physics, 2018, 18, 4463-4476.	1.9	15
17	Copernicus Climate Change Service (C3S) Global Satellite Observations of Atmospheric Carbon Dioxide and Methane. Advances in Astronautics Science and Technology, 2018, 1, 57-60.	0.5	16
18	Computation and analysis of atmospheric carbon dioxide annual mean growth rates from satellite observations during 2003â€“2016. Atmospheric Chemistry and Physics, 2018, 18, 17355-17370.	1.9	27

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19	CoMet: an airborne mission to simultaneously measure CO2 and CH4 using lidar, passive remote sensing, and in-situ techniques. EPJ Web of Conferences, 2018, 176, 02003.	0.1	13
20	In-flight calibration of SCIAMACHY's polarization sensitivity. Atmospheric Measurement Techniques, 2018, 11, 265-289.	1.2	7
21	Airborne remote sensing and in situ measurements of atmospheric CO₂ to quantify point source emissions. Atmospheric Measurement Techniques, 2018, 11, 721-739.	1.2	24
22	Aerosol particle size distribution in the stratosphere retrieved from SCIAMACHY limb measurements. Atmospheric Measurement Techniques, 2018, 11, 2085-2100.	1.2	26
23	The potential of satellite spectro-imagery for monitoring CO₂ emissions from large cities. Atmospheric Measurement Techniques, 2018, 11, 681-708.	1.2	45
24	CO₂ emission of Indonesian fires in 2015 estimated from satelliteâ€derived atmospheric CO₂ concentrations. Geophysical Research Letters, 2017, 44, 1537-1544.	1.5	60
25	Global satellite observations of column-averaged carbon dioxide and methane: The GHG-CCI XCO2 and XCH4 CRDP3 data set. Remote Sensing of Environment, 2017, 203, 276-295.	4.6	52
26	How Much CO2 Is Taken Up by the European Terrestrial Biosphere?. Bulletin of the American Meteorological Society, 2017, 98, 665-671.	1.7	33
27	Satellite-derived methane hotspot emission estimates using a fast data-driven method. Atmospheric Chemistry and Physics, 2017, 17, 5751-5774.	1.9	63
28	Improved pointing information for SCIAMACHY from in-flight measurements of the viewing directions towards sun and moon. Atmospheric Measurement Techniques, 2017, 10, 2413-2423.	1.2	2
29	MERLIN: A French-German Space Lidar Mission Dedicated to Atmospheric Methane. Remote Sensing, 2017, 9, 1052.	1.8	88
30	A Fast Atmospheric Trace Gas Retrieval for Hyperspectral Instruments Approximating Multiple Scatteringâ€”Part 1: Radiative Transfer and a Potential OCO-2 XCO2 Retrieval Setup. Remote Sensing, 2017, 9, 1159.	1.8	21
31	Reduced Methane Emissions from Santa Barbara Marine Seeps. Remote Sensing, 2017, 9, 1162.	1.8	1
32	Methane emissions from aÂCalifornian landfill, determined from airborne remote sensing and in situ measurements. Atmospheric Measurement Techniques, 2017, 10, 3429-3452.	1.2	36
33	A Fast Atmospheric Trace Gas Retrieval for Hyperspectral Instruments Approximating Multiple Scatteringâ€”Part 2: Application to XCO2 Retrievals from OCO-2. Remote Sensing, 2017, 9, 1102.	1.8	22
34	UTLS water vapour from SCIAMACHY limb measurementsV3.01 (2002â€“2012). Atmospheric Measurement Techniques, 2016, 9, 133-158.	1.2	12
35	Stratospheric CH₄ and CO₂ profiles derived from SCIAMACHY solar occultation measurements. Atmospheric Measurement Techniques, 2016, 9, 1485-1503.	1.2	12
36	Global tropospheric ozone variations from 2003 to 2011 as seen by SCIAMACHY. Atmospheric Chemistry and Physics, 2016, 16, 417-436.	1.9	34

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37	Tracking city CO₂ emissions from space using a high-resolution inverse modelling approach: a case study for Berlin, Germany. Atmospheric Chemistry and Physics, 2016, 16, 9591-9610.	1.9	51
38	Using Passive Remote Sensing in the Short Wave Infrared to Quantify Methane and CO2 Point Source Emissions. , 2016, , .		0
39	Geostationary Emission Explorer for Europe (G3E): mission concept and initial performance assessment. Atmospheric Measurement Techniques, 2015, 8, 4719-4734.	1.2	23
40	Real-time remote detection and measurement for airborne imaging spectroscopy: a case study with methane. Atmospheric Measurement Techniques, 2015, 8, 4383-4397.	1.2	111
41	Relative drifts and biases between six ozone limb satellite measurements from the last decade. Atmospheric Measurement Techniques, 2015, 8, 4369-4381.	1.2	13
42	Consistent satellite XCO₂ retrievals from SCIAMACHY and GOSAT using the BESD algorithm. Atmospheric Measurement Techniques, 2015, 8, 2961-2980.	1.2	45
43	Atmospheric remote sensing constraints on direct sea-air methane flux from the 22/4b North Sea massive blowout bubble plume. Marine and Petroleum Geology, 2015, 68, 824-835.	1.5	16
44	The Greenhouse Gas Climate Change Initiative (GHG-CCI): Comparison and quality assessment of near-surface-sensitive satellite-derived CO2 and CH4 global data sets. Remote Sensing of Environment, 2015, 162, 344-362.	4.6	112
45	Ten-Year SCIAMACHY Stratospheric Aerosol Data Record: Signature of the Secondary Meridional Circulation Associated with the Quasi-Biennial Oscillation. Springer Earth System Sciences, 2015, , 49-58.	0.1	6
46	Current systematic carbon-cycle observations and the need for implementing a policy-relevant carbon observing system. Biogeosciences, 2014, 11, 3547-3602.	1.3	189
47	Tropospheric column amount of ozone retrieved from SCIAMACHY limbâ€“nadir-matching observations. Atmospheric Measurement Techniques, 2014, 7, 2073-2096.	1.2	37
48	Decreasing emissions of NOx relative to CO2 in East Asia inferred from satellite observations. Nature Geoscience, 2014, 7, 792-795.	5.4	99
49	The CarbonSat candidate mission: imaging greenhouse gas concentrations from space. , 2014, , .		2
50	Stratospheric ozone trends and variability as seen by SCIAMACHY from 2002 to 2012. Atmospheric Chemistry and Physics, 2014, 14, 831-846.	1.9	66
51	Terrestrial carbon sink observed from space: variation of growth rates and seasonal cycle amplitudes in response to interannual surface temperature variability. Atmospheric Chemistry and Physics, 2014, 14, 133-141.	1.9	55
52	Satellite-inferred European carbon sink larger than expected. Atmospheric Chemistry and Physics, 2014, 14, 13739-13753.	1.9	83
53	Remote sensing of fugitive methane emissions from oil and gas production in North American tight geologic formations. Earth's Future, 2014, 2, 548-558.	2.4	129
54	Error budget analysis of SCIAMACHY limb ozone profile retrievals using the SCIATRAN model. Atmospheric Measurement Techniques, 2013, 6, 2825-2837.	1.2	16

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55	Polarization data from SCIAMACHY limb backscatter observations compared to vector radiative transfer model simulations. Atmospheric Measurement Techniques, 2013, 6, 1503-1520.	1.2	6
56	Quantification of methane emission rates from coal mine ventilation shafts using airborne remote sensing data. Atmospheric Measurement Techniques, 2013, 6, 151-166.	1.2	67
57	Carbon Monitoring Satellite (CarbonSat): assessment of atmospheric CO₂ and CH₄ retrieval errors by error parameterization. Atmospheric Measurement Techniques, 2013, 6, 3477-3500.	1.2	94
58	Anthropogenic carbon dioxide source areas observed from space: assessment of regional enhancements and trends. Atmospheric Chemistry and Physics, 2013, 13, 2445-2454.	1.9	73
59	Chemical ozone losses in Arctic and Antarctic polar winter/spring season derived from SCIAMACHY limb measurements 2002â€“2009. Atmospheric Chemistry and Physics, 2013, 13, 1809-1835.	1.9	19
60	A joint effort to deliver satellite retrieved atmospheric CO₂ concentrations for surface flux inversions: the ensemble median algorithm EMMA. Atmospheric Chemistry and Physics, 2013, 13, 1771-1780.	1.9	62
61	Impact of Short-Term Solar Variability on the Polar Summer Mesopause and Noctilucent Clouds. Springer Atmospheric Sciences, 2013, , 365-382.	0.4	2
62	Global and long-term comparison of SCIAMACHY limb ozone profiles with correlative satellite data (2002â€“2008). Atmospheric Measurement Techniques, 2012, 5, 771-788.	1.2	29
63	SCIAMACHY lunar occultation water vapor measurements: retrieval and validation results. Atmospheric Measurement Techniques, 2012, 5, 2499-2513.	1.2	5
64	Precise pointing knowledge for SCIAMACHY solar occultation measurements. Atmospheric Measurement Techniques, 2012, 5, 2867-2880.	1.2	17
65	Quantification and mitigation of the impact of scene inhomogeneity on Sentinel-4 UVN UV-VIS retrievals. Atmospheric Measurement Techniques, 2012, 5, 1319-1331.	1.2	19
66	A simple empirical model estimating atmospheric CO₂ background concentrations. Atmospheric Measurement Techniques, 2012, 5, 1349-1357.	1.2	29
67	SCIAMACHY WFM-DOAS <i>X</i>CO₂: reduction of scattering related errors. Atmospheric Measurement Techniques, 2012, 5, 2375-2390.	1.2	23
68	SCIAMACHY WFM-DOAS XCO₂: comparison with CarbonTracker XCO₂ focusing on aerosols and thin clouds. Atmospheric Measurement Techniques, 2012, 5, 1935-1952.	1.2	21
69	Validation of SCIAMACHY limb NO₂ profiles using solar occultation measurements. Atmospheric Measurement Techniques, 2012, 5, 1059-1084.	1.2	19
70	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
71	On the potential of the 2041â€“2047nm spectral region for remote sensing of atmospheric CO2 isotopologues. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 2009-2017.	1.1	15
72	Retrieval of atmospheric CO₂with enhanced accuracy and precision from SCIAMACHY: Validation with FTS measurements and comparison with model results. Journal of Geophysical Research, 2011, 116, .	3.3	153

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73	From Radiation Fields to Atmospheric Concentrations â€“ Retrieval of Geophysical Parameters. , 2011, , 99-127.		3
74	Long-term analysis of carbon dioxide and methane column-averaged mole fractions retrieved from SCIAMACHY. Atmospheric Chemistry and Physics, 2011, 11, 2863-2880.	1.9	158
75	A feasibility study for the detection of the diurnal variation of tropospheric NO2 over Tokyo from a geostationary orbit. Advances in Space Research, 2011, 48, 1551-1564.	1.2	5
76	Nine years of atmospheric remote sensing with sciamachy - atmospheric parameters and data products. , 2011, , .		1
77	Nine years of atmospheric remote sensing with SCIAMACHY - instrument performance. , 2011, , .		0
78	Retrieval of water vapor vertical distributions in the upper troposphere and the lower stratosphere from SCIAMACHY limb measurements. Atmospheric Measurement Techniques, 2011, 4, 933-954.	1.2	32
79	MAMAP â€“ 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
80	BrO vertical distributions from SCIAMACHY limb measurements: comparison of algorithms and retrieval results. Atmospheric Measurement Techniques, 2011, 4, 1319-1359.	1.2	45
81	Stratospheric methane profiles from SCIAMACHY solar occultation measurements derived with onion peeling DOAS. Atmospheric Measurement Techniques, 2011, 4, 2567-2577.	1.2	15
82	A New Method for the Comparison of Trend Data with an Application to Water Vapor. Journal of Climate, 2011, 24, 3124-3141.	1.2	2
83	MAMAP â€“ 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
84	Towards space based verification of CO₂ emissions from strong localized sources: fossil fuel power plant emissions as seen by a CarbonSat constellation. Atmospheric Measurement Techniques, 2011, 4, 2809-2822.	1.2	58
85	SCIAMACHYâ€™s View of the Changing Earthâ€™s Environment. , 2011, , 175-216.		11
86	The Instrument. , 2011, , 29-46.		5
87	A method for improved SCIAMACHY CO₂ retrieval in the presence of optically thin clouds. Atmospheric Measurement Techniques, 2010, 3, 209-232.	1.2	194
88	Water vapour profiles from SCIAMACHY solar occultation measurements derived with an onion peeling approach. Atmospheric Measurement Techniques, 2010, 3, 523-535.	1.2	23
89	Markov chain analysis of regional climates. Nonlinear Processes in Geophysics, 2010, 17, 651-661.	0.6	10
90	A remote sensing technique for global monitoring of power plant CO₂ emissions from space and related applications. Atmospheric Measurement Techniques, 2010, 3, 781-811.	1.2	219

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91	First evidence of a 27 day solar signature in noctilucent cloud occurrence frequency. Journal of Geophysical Research, 2010, 115, .	3.3	36
92	Ship track characteristics derived from geostationary satellite observations on the west coast of southern Africa. Atmospheric Research, 2010, 95, 32-39.	1.8	8
93	Cloud sensitivity studies for stratospheric and lower mesospheric ozone profile retrievals from measurements of limb-scattered solar radiation. Atmospheric Measurement Techniques, 2009, 2, 653-678.	1.2	42
94	Comparison of NLC particle sizes derived from SCIAMACHY/Envisat observations with ground-based LIDAR measurements at ALOMAR (69Â° N). Atmospheric Measurement Techniques, 2009, 2, 523-531.	1.2	8
95	Multi-year comparison of stratospheric BrO vertical profiles retrieved from SCIAMACHY limb and ground-based UV-visible measurements. Atmospheric Measurement Techniques, 2009, 2, 273-285.	1.2	14
96	Carbon monoxide spatial gradients over source regions as observed by SCIAMACHY: A case study for the United Kingdom. Advances in Space Research, 2009, 43, 923-929.	1.2	3
97	Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE). Atmospheric Chemistry and Physics, 2009, 9, 287-343.	1.9	134
98	Three years of greenhouse gas column-averaged dry air mole fractions retrieved from satellite â€“ Part 2: Methane. Atmospheric Chemistry and Physics, 2009, 9, 443-465.	1.9	119
99	Evolution of stratospheric ozone and water vapour time series studied with satellite measurements. Atmospheric Chemistry and Physics, 2009, 9, 6055-6075.	1.9	98
100	Ship emitted NO₂ in the Indian Ocean: comparison of model results with satellite data. Atmospheric Chemistry and Physics, 2009, 9, 7289-7301.	1.9	47
101	SCIAMACHY Solar Occultation: Ozone and NO2 Profiles 2002â€“2007. , 2009, , 79-86.		2
102	Towards validation of SCIAMACHY lunar occultation NO2 vertical profiles. Advances in Space Research, 2008, 41, 1921-1932.	1.2	5
103	Preliminary results of GOME-2 water vapour retrievals and first applications in polar regions. Atmospheric Chemistry and Physics, 2008, 8, 1519-1529.	1.9	46
104	Ozone profile retrieval from limb scatter measurements in the HARTLEY bands: further retrieval details and profile comparisons. Atmospheric Chemistry and Physics, 2008, 8, 2509-2517.	1.9	6
105	Three years of greenhouse gas column-averaged dry air mole fractions retrieved from satellite â€“ Part 1: Carbon dioxide. Atmospheric Chemistry and Physics, 2008, 8, 3827-3853.	1.9	146
106	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
107	Sounding The Troposphere From Space: A New Era For Global Atmospheric Chemistry. NATO Science for Peace and Security Series C: Environmental Security, 2008, , 173-200.	0.1	2
108	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

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109	Corrigendum to "First direct observation of the atmospheric CO₂ year-to-year increase from space" published in Atmos. Chem. Phys., 7, 4249â€“4256, 2007. Atmospheric Chemistry and Physics, 2007, 7, 5341-5342.	1.9	9
110	First direct observation of the atmospheric CO₂ year-to-year increase from space. Atmospheric Chemistry and Physics, 2007, 7, 4249-4256.	1.9	108
111	Comparison of the inversion algorithms applied to the ozone vertical profile retrieval from SCIAMACHY limb measurements. Atmospheric Chemistry and Physics, 2007, 7, 4763-4779.	1.9	35
112	Global cloud top height and thermodynamic phase distributions as obtained by SCIAMACHY on ENVISAT. International Journal of Remote Sensing, 2007, 28, 4499-4507.	1.3	13
113	On the disappearance of noctilucent clouds during the January 2005 solar proton events. Geophysical Research Letters, 2007, 34, .	1.5	53
114	Global ship track distribution and radiative forcing from 1 year of AATSR data. Geophysical Research Letters, 2007, 34, .	1.5	61
115	Satellite observations of the quasi 5â€day wave in noctilucent clouds and mesopause temperatures. Geophysical Research Letters, 2007, 34, .	1.5	45
116	Towards Operational Monitoring of the Chemical Composition of the Atmosphere Using Solar Backscatter Imaging Techniques. , 2007, , .		0
117	SCIAMACHY on ENVISAT: 4 Years in Space: A Status Report. , 2006, , .		0
118	Atmospheric carbon gases retrieved from SCIAMACHY by WFM-DOAS: version 0.5 CO and CH₄ and impact of calibration improvements on CO₂ retrieval. Atmospheric Chemistry and Physics, 2006, 6, 2727-2751.	1.9	143
119	Impact of ship emissions on the microphysical, optical and radiative properties of marine stratus: a case study. Atmospheric Chemistry and Physics, 2006, 6, 4925-4942.	1.9	33
120	The semianalytical cloud retrieval algorithm for SCIAMACHY II. The application to MERIS and SCIAMACHY data. Atmospheric Chemistry and Physics, 2006, 6, 4129-4136.	1.9	22
121	SCIAMACHY Level 1 data: calibration concept and in-flight calibration. Atmospheric Chemistry and Physics, 2006, 6, 5347-5367.	1.9	57
122	First results of ozone profiles between 35 and 65km retrieved from SCIAMACHY limb spectra and observations of ozone depletion during the solar proton events in October/November 2003. Advances in Space Research, 2006, 37, 2263-2268.	1.2	10
123	Retrieval And Monitoring of Atmospheric Trace Gas Concentrations in Nadir and Limb Geometry Using the Space-Borne Sciamachy Instrument. Environmental Monitoring and Assessment, 2006, 120, 65-77.	1.3	23
124	Solar occultation with SCIAMACHY: algorithm description and first validation. Atmospheric Chemistry and Physics, 2005, 5, 1589-1604.	1.9	22
125	Validation of SCIAMACHY AMC-DOAS water vapour columns. Atmospheric Chemistry and Physics, 2005, 5, 1835-1841.	1.9	42
126	Spatial and temporal characterization of SCIAMACHY limb pointing errors during the first three years of the mission. Atmospheric Chemistry and Physics, 2005, 5, 2593-2602.	1.9	57

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127	Detection and mapping of polar stratospheric clouds using limb scattering observations. Atmospheric Chemistry and Physics, 2005, 5, 3071-3079.	1.9	40
128	Balloon-borne limb profiling of UV/vis skylight radiances, O₃, NO₂, and BrO: technical set-up and validation of the method. Atmospheric Chemistry and Physics, 2005, 5, 1409-1422.	1.9	36
129	The UV-A and visible solar irradiance spectrum: inter-comparison of absolutely calibrated, spectrally medium resolution solar irradiance spectra from balloon- and satellite-borne measurements. Atmospheric Chemistry and Physics, 2005, 5, 1879-1890.	1.9	21
130	Atmospheric methane and carbon dioxide from SCIAMACHY satellite data: initial comparison with chemistry and transport models. Atmospheric Chemistry and Physics, 2005, 5, 941-962.	1.9	238
131	Carbon monoxide, methane and carbon dioxide columns retrieved from SCIAMACHY by WFM-DOAS: year 2003 initial data set. Atmospheric Chemistry and Physics, 2005, 5, 3313-3329.	1.9	162
132	The Ozone Hole Breakup in September 2002 as Seen by SCIAMACHY on ENVISAT. Journals of the Atmospheric Sciences, 2005, 62, 721-734.	0.6	66
133	Lunar occultation with SCIAMACHY: First retrieval results. Advances in Space Research, 2005, 36, 906-914.	1.2	9
134	NO2 and BrO vertical profile retrieval from SCIAMACHY limb measurements: Sensitivity studies. Advances in Space Research, 2005, 36, 846-854.	1.2	93
135	SCIAMACHY solar irradiance observation in the spectral range from 240 to 2380nm. Advances in Space Research, 2005, 35, 370-375.	1.2	48
136	Cross comparisons of O3 and NO2 measured by the atmospheric ENVISAT instruments GOMOS, MIPAS, and SCIAMACHY. Advances in Space Research, 2005, 36, 855-867.	1.2	34
137	Ozone depletion during the solar proton events of October/November 2003 as seen by SCIAMACHY. Journal of Geophysical Research, 2005, 110, .	3.3	90
138	Retrieval of stratospheric NO3vertical profiles from SCIAMACHY lunar occultation measurement over the Antarctic. Journal of Geophysical Research, 2005, 110, .	3.3	14
139	SCIAMACHY on ENVISAT: in-flight optical performance and first results. , 2004, , .		18
140	The Determination of Cloud Altitudes Using SCIAMACHY Onboard ENVISAT. IEEE Geoscience and Remote Sensing Letters, 2004, 1, 211-214.	1.4	14
141	The determination of the atmospheric optical thickness over Western Europe using SeaWiFS imagery. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 824-832.	2.7	11
142	SCIAMACHY limb measurements in the UV/Vis spectral region: first results. Advances in Space Research, 2004, 34, 775-779.	1.2	20
143	NLC detection and particle size determination: first results from SCIAMACHY on ENVISAT. Advances in Space Research, 2004, 34, 851-856.	1.2	42
144	Retrieval of trace gas vertical columns from SCIAMACHY/ENVISAT near-infrared nadir spectra: first preliminary results. Advances in Space Research, 2004, 34, 809-814.	1.2	18

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145	The Geostationary Fourier Imaging Spectrometer (GeoFIS) as part of the Geostationary Tropospheric Pollution Explorer (GeoTroPE) mission: objectives and capabilities. Advances in Space Research, 2004, 34, 688-693.	1.2	14
146	Nonmigrating tides in the thermosphere of Mars: a quasi-empirical description. Advances in Space Research, 2004, 34, 1690-1695.	1.2	12
147	SCIAMACHY limb spectra. Advances in Space Research, 2004, 34, 715-720.	1.2	5
148	Towards O3 and NO2 vertical profile retrieval from SCIAMACHY solar occultation measurements: first results. Advances in Space Research, 2004, 34, 744-748.	1.2	8
149	The geostationary tropospheric pollution explorer (GeoTROPE) mission: objectives, requirements and mission concept. Advances in Space Research, 2004, 34, 682-687.	1.2	28
150	The geostationary scanning imaging absorption spectrometer (GeoSCIA) as part of the geostationary tropospheric pollution explorer (GeoTROPE) mission: requirements, concepts and capabilities. Advances in Space Research, 2004, 34, 694-699.	1.2	17
151	Satellite-pointing retrieval from atmospheric limb-scattering of solar UV-B radiation. Canadian Journal of Physics, 2004, 82, 1041-1052.	0.4	44
152	Retrieval of trace gas vertical columns from SCIAMACHY/ENVISAT near-infrared nadir spectra: first preliminary results. Advances in Space Research, 2004, 34, 809-809.	1.2	1
153	First near-global retrievals of OH rotational temperatures from satellite-based Meinel band emission measurements. Geophysical Research Letters, 2004, 31, .	1.5	42
154	Satellite measurements of NO2from international shipping emissions. Geophysical Research Letters, 2004, 31, .	1.5	144
155	Global carbon monoxide as retrieved from SCIAMACHY by WFM-DOAS. Atmospheric Chemistry and Physics, 2004, 4, 1945-1960.	1.9	84
156	SCIAMACHY on ENVISAT: instrument monitoring and calibration two years after launch. , 2004, , .		0
157	Intercomparison of Stratospheric Chemistry Models under Polar Vortex Conditions. Journal of Atmospheric Chemistry, 2003, 45, 51-77.	1.4	18
158	Impact of Accurate Photolysis Calculations on the Simulation of Stratospheric Chemistry. Journal of Atmospheric Chemistry, 2003, 44, 225-240.	1.4	6
159	The SCIAMACHY calibration/monitoring concept and first results. Advances in Space Research, 2003, 32, 2123-2128.	1.2	11
160	In-flight calibration of the SCIAMACHY solar irradiance spectrum. Advances in Space Research, 2003, 32, 2129-2134.	1.2	6
161	Measurements of molecular absorption spectra with the SCIAMACHY pre-flight model: instrument characterization and reference data for atmospheric remote-sensing in the 230â€“2380 nm region. Journal of Photochemistry and Photobiology A: Chemistry, 2003, 157, 167-184.	2.0	605
162	A semianalytical cloud retrieval algorithm using backscattered radiation in 0.4â€“2.4 Î¼m spectral region. Journal of Geophysical Research, 2003, 108, AAC 4-1.	3.3	88

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163	A cloud retrieval algorithm for SCIAMACHY. , 2003, 5059, 116.		0
164	Comparison of measurements and model calculations of stratospheric bromine monoxide. Journal of Geophysical Research, 2002, 107, ACH 11-1.	3.3	62
165	Consistent interpretation of ground based and GOME BrO slant column data. Advances in Space Research, 2002, 29, 1655-1660.	1.2	14
166	Retrieval of total water vapour column amounts from GOME/ERS-2 data. Advances in Space Research, 2002, 29, 1697-1702.	1.2	24
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