

Klaas Folkert Boersma

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4593755/klaas-folkert-boersma-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

136
papers

10,503
citations

60
h-index

101
g-index

197
ext. papers

12,231
ext. citations

6.1
avg, IF

6.1
L-index

#	Paper	IF	Citations
136	Improved monitoring of shipping NO _x emissions with TROPOMI: decreasing NO _x emissions in European seas during the COVID-19 pandemic. <i>Atmospheric Measurement Techniques</i> , 2022 , 15, 2037-2060	4	2
135	Sentinel-5P TROPOMI NO _x retrieval: impact of version v2.2 improvements and comparisons with OMI and ground-based data. <i>Atmospheric Measurement Techniques</i> , 2022 , 15, 2037-2060	4	6
134	New observations of NO _x in the upper troposphere from TROPOMI. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 2389-2408	4	5
133	Sun-induced fluorescence and near-infrared reflectance of vegetation track the seasonal dynamics of gross primary production over Africa. <i>Biogeosciences</i> , 2021 , 18, 2843-2857	4.6	3
132	Analysis of the Anthropogenic and Biogenic NO _x Emissions Over 2008-2017: Assessment of the Trends in the 30 Most Populated Urban Areas in Europe. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL022006	4.9	20
131	Ground-based validation of the Copernicus Sentinel-5P TROPOMI NO _x measurements with the NDACC ZSL-DOAS, MAX-DOAS and Pandonia global networks. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 481-510	4	61
130	Comprehensive evaluations of diurnal NO _x measurements during DISCOVER-AQ 2011: effects of resolution-dependent representation of NO _x emissions. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 11133-11160	6.8	1
129	Comparative assessment of TROPOMI and OMI formaldehyde observations and validation against MAX-DOAS network column measurements. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 12561-12593	6.8	11
128	Ozone deposition impact assessments for forest canopies require accurate ozone flux partitioning on diurnal timescales. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 18393-18411	6.8	2
127	S5P TROPOMI NO _x slant column retrieval: method, stability, uncertainties and comparisons with OMI. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 1315-1335	4	80
126	Assessment of the quality of TROPOMI high-spatial-resolution NO _x data products in the Greater Toronto Area. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 2131-2159	4	39
125	Inferring Changes in Summertime Surface Ozone-NO-VOC Chemistry over U.S. Urban Areas from Two Decades of Satellite and Ground-Based Observations. <i>Environmental Science & Technology</i> , 2020 , 54, 6518-6529	10.3	53
124	Quantifying burning efficiency in megacities using the NO _x /CO ratio from the Tropospheric Monitoring Instrument (TROPOMI). <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 10295-10310	6.8	8
123	A new TROPOMI product for tropospheric NO _x columns over East Asia with explicit aerosol corrections. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 4247-4259	4	21
122	Improved SIFTER v2 algorithm for long-term GOME-2A satellite retrievals of fluorescence with a correction for instrument degradation. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 4295-4315	4	8
121	Validation of tropospheric NO _x column measurements of GOME-2A and OMI using MAX-DOAS and direct sun network observations. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 6141-6174	4	12
120	Updated tropospheric chemistry reanalysis and emission estimates, TCR-2, for 2005-2018. <i>Earth System Science Data</i> , 2020 , 12, 2223-2259	10.5	21

119	Warmer spring alleviated the impacts of 2018 European summer heatwave and drought on vegetation photosynthesis. <i>Agricultural and Forest Meteorology</i> , 2020 , 295, 108195	5.8	13
118	Validation of Aura-OMI QA4ECV NO ₂ climate data records with ground-based DOAS networks: the role of measurement and comparison uncertainties. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 8017-8045	6.8	13
117	Satellite-based estimates of decline and rebound in China's CO emissions during COVID-19 pandemic. <i>Science Advances</i> , 2020 , 6,	14.3	58
116	Towards a Traceable Climate Service: Assessment of Quality and Usability of Essential Climate Variables. <i>Remote Sensing</i> , 2019 , 11, 1186	5	16
115	Characterising low-cost sensors in highly portable platforms to quantify personal exposure in diverse environments. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 4643-4657	4	49
114	Trends and trend reversal detection in two decades of tropospheric NO ₂ satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 6269-6294	6.8	73
113	Adverse results of the economic crisis: A study on the emergence of enhanced formaldehyde (HCHO) levels seen from satellites over Greek urban sites. <i>Atmospheric Research</i> , 2019 , 224, 42-51	5.4	9
112	European NO _x emissions in WRF-Chem derived from OMI: impacts on summertime surface ozone. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 11821-11841	6.8	19
111	High resolution mapping of nitrogen dioxide with TROPOMI: First results and validation over the Canadian oil sands. <i>Geophysical Research Letters</i> , 2019 , 46, 1049-1060	4.9	117
110	Balance of Emission and Dynamical Controls on Ozone During the Korea-United States Air Quality Campaign From Multiconstituent Satellite Data Assimilation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 387-413	4.4	36
109	Unexpected slowdown of US pollutant emission reduction in the past decade. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5099-5104	11.5	103
108	Comparing OMI-based and EPA AQS in situ NO ₂ trends: towards understanding surface NO _x emission changes. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 3955-3967	4	31
107	Improving algorithms and uncertainty estimates for satellite NO ₂ retrievals: results from the quality assurance for the essential climate variables (QA4ECV) project. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 6651-6678	4	115
106	Trends and trend reversal detection in two decades of tropospheric NO ₂ satellite observations 2018 ,		2
105	Quality Assurance Framework Development Based on Six New ECV Data Products to Enhance User Confidence for Climate Applications. <i>Remote Sensing</i> , 2018 , 10, 1254	5	19
104	Top-Down NO Emissions of European Cities Based on the Downwind Plume of Modelled and Space-Borne Tropospheric NO ₂ Columns. <i>Sensors</i> , 2018 , 18,	3.8	15
103	Algorithm theoretical baseline for formaldehyde retrievals from S5P TROPOMI and from the QA4ECV project. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 2395-2426	4	73
102	Improved slant column density retrieval of nitrogen dioxide and formaldehyde for OMI and GOME-2A from QA4ECV: intercomparison, uncertainty characterisation, and trends. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 4033-4058	4	51

101	The importance of surface reflectance anisotropy for cloud and NO ₂ retrievals from GOME-2 and OMI. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 4509-4529	4	17
100	The Ozone Monitoring Instrument: overview of 14 years in space. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 5699-5745	6.8	163
99	The high-resolution version of TM5-MP for optimized satellite retrievals: description and validation. <i>Geoscientific Model Development</i> , 2017 , 10, 721-750	6.3	62
98	Evaluating a Space-Based Indicator of Surface Ozone-NO _x -VOC Sensitivity Over Midlatitude Source Regions and Application to Decadal Trends. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 10-461	4.4	103
97	Quality-assured long-term satellite-based leaf area index product. <i>Global Change Biology</i> , 2017 , 23, 5027-5028	7	7
96	Decadal changes in global surface NO _x emissions from multi-constituent satellite data assimilation. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 807-837	6.8	159
95	Structural uncertainty in air mass factor calculation for NO ₂ and HCHO satellite retrievals. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 759-782	4	91
94	Comparison of OMI NO ₂ observations and their seasonal and weekly cycles with ground-based measurements in Helsinki. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 5203-5212	4	35
93	Aura OMI observations of regional SO ₂ and NO ₂ pollution changes from 2005 to 2015. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 4605-4629	6.8	428
92	A Decade of Change in NO ₂ and SO ₂ over the Canadian Oil Sands As Seen from Space. <i>Environmental Science & Technology</i> , 2016 , 50, 331-7	10.3	46
91	Representativeness errors in comparing chemistry transport and chemistry climate models with satellite UV _{vis} tropospheric column retrievals. <i>Geoscientific Model Development</i> , 2016 , 9, 875-898	6.3	44
90	Limb-to-limb matching using non-coincident NO ₂ observations: proof of concept and the OMI-minus-OSIRIS prototype product. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 4103-4122	4	8
89	Substantial Underestimation of Post-Harvest Burning Emissions in the North China Plain Revealed by Multi-Species Space Observations. <i>Scientific Reports</i> , 2016 , 6, 32307	4.9	37
88	OMI tropospheric NO ₂ air mass factors over South America: effects of biomass burning aerosols 2015 ,		3
87	Improved spectral fitting of nitrogen dioxide from OMI in the 405-465 nm window. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 1685-1699	4	49
86	Rapid increases in tropospheric ozone production and export from China. <i>Nature Geoscience</i> , 2015 , 8, 690-695	18.3	206
85	Identification of surface NO _x emission sources on a regional scale using OMI NO ₂ . <i>Atmospheric Environment</i> , 2015 , 101, 82-93	5.3	20
84	Influence of aerosols and surface reflectance on satellite NO ₂ retrieval: seasonal and spatial characteristics and implications for NO _x emission constraints. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 11217-11241	6.8	61

83	Ships going slow in reducing their NO _x emissions: changes in 2005–2012 ship exhaust inferred from satellite measurements over Europe. <i>Environmental Research Letters</i> , 2015 , 10, 074007	6.2	27
82	Interannual variability of nitrogen oxides emissions from boreal fires in Siberia and Alaska during 1996–2011 as observed from space. <i>Environmental Research Letters</i> , 2015 , 10, 065004	6.2	11
81	OMI tropospheric NO ₂ ; air mass factors over South America: effects of biomass burning aerosols. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 3831-3849	4	36
80	Satellite NO ₂ data improve national land use regression models for ambient NO ₂ in a small densely populated country. <i>Atmospheric Environment</i> , 2015 , 105, 173-180	5.3	37
79	Anthropogenic emissions of NO _x over China: Reconciling the difference of inverse modeling results using GOME-2 and OMI measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 7732-7740	4.4	37
78	Retrieving tropospheric nitrogen dioxide from the Ozone Monitoring Instrument: effects of aerosols, surface reflectance anisotropy, and vertical profile of nitrogen dioxide. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1441-1461	6.8	130
77	Improved satellite retrievals of NO ₂ and SO ₂ over the Canadian oil sands and comparisons with surface measurements. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 3637-3656	6.8	110
76	Satellite observations indicate substantial spatiotemporal variability in biomass burning NO _x ; emission factors for South America. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 3929-3943	6.8	52
75	Characterization of OMI tropospheric NO ₂ over the Baltic Sea region. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 7795-7805	6.8	20
74	Worldwide biogenic soil NO _x ; emissions inferred from OMI NO ₂ observations. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 10363-10381	6.8	105
73	Constraints on ship NO _x emissions in Europe using GEOS-Chem and OMI satellite NO ₂ observations. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1353-1369	6.8	75
72	Intercomparison of daytime stratospheric NO ₂ satellite retrievals and model simulations 2014 ,		1
71	Intercomparison of daytime stratospheric NO ₂ satellite retrievals and model simulations. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 2203-2225	4	19
70	Evaluation of high resolution simulated and OMI retrieved tropospheric NO ₂ column densities over Southeastern Europe. <i>Atmospheric Research</i> , 2013 , 122, 55-66	5.4	23
69	A new stratospheric and tropospheric NO ₂ retrieval algorithm for nadir-viewing satellite instruments: applications to OMI. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 2607-2626	4	220
68	Validation of six years of TES tropospheric ozone retrievals with ozonesonde measurements: implications for spatial patterns and temporal stability in the TES bias 2013 ,		1
67	Validation of six years of TES tropospheric ozone retrievals with ozonesonde measurements: implications for spatial patterns and temporal stability in the bias. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 1413-1423	4	30
66	Key chemical NO _x sink uncertainties and how they influence top-down emissions of nitrogen oxides. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 9057-9082	6.8	95

65	Compilation of a NO _x Emission Inventory for the Balkan Region Using Satellite Tropospheric NO ₂ Columns. <i>Springer Atmospheric Sciences</i> , 2013 , 1265-1271	0.7	2
64	The global economic cycle and satellite-derived NO ₂ trends over shipping lanes. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	37
63	Air quality over the Canadian oil sands: A first assessment using satellite observations. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	108
62	Quantitative bias estimates for tropospheric NO ₂ columns retrieved from SCIAMACHY, OMI, and GOME-2 using a common standard for East Asia. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 2403-2411	4	90
61	The Cabauw Intercomparison campaign for Nitrogen Dioxide measuring Instruments (CINDI): design, execution, and early results. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 457-485	4	71
60	Reductions in nitrogen oxides over Europe driven by environmental policy and economic recession. <i>Scientific Reports</i> , 2012 , 2, 265	4.9	131
59	Simultaneous assimilation of satellite NO ₂ , O ₃ , CO, and HNO ₃ data for the analysis of tropospheric chemical composition and emissions. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 9545-9579	6.8	104
58	Analysis of stratospheric NO ₂ trends above Jungfraujoch using ground-based UV-visible, FTIR, and satellite nadir observations. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 8851-8864	6.8	21
57	Evaluation of stratospheric NO ₂ retrieved from the Ozone Monitoring Instrument: Intercomparison, diurnal cycle, and trending. <i>Journal of Geophysical Research</i> , 2011 , 116,		82
56	Megacity emissions and lifetimes of nitrogen oxides probed from space. <i>Science</i> , 2011 , 333, 1737-9	33.3	295
55	Global satellite analysis of the relation between aerosols and short-lived trace gases. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 1255-1267	6.8	55
54	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. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 11361-11386	6.8	70
53	Accounting for non-linear chemistry of ship plumes in the GEOS-Chem global chemistry transport model. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 11707-11722	6.8	66
52	Eight-component retrievals from ground-based MAX-DOAS observations. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 1027-1044	4	123
51	An improved tropospheric NO ₂ column retrieval algorithm for the Ozone Monitoring Instrument. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 1905-1928	4	456
50	Intercomparison of slant column measurements of NO ₂ and O ₄ by MAX-DOAS and zenith-sky UV and visible spectrometers. <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 1629-1646	4	92
49	The global chemistry transport model TM5: description and evaluation of the tropospheric chemistry version 3.0. <i>Geoscientific Model Development</i> , 2010 , 3, 445-473	6.3	199
48	Accounting for surface reflectance anisotropy in satellite retrievals of tropospheric NO ₂ . <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 1185-1203	4	46

47	Testing and improving OMI DOMINO tropospheric NO ₂ using observations from the DANDELIONS and INTEX-B validation campaigns. <i>Journal of Geophysical Research</i> , 2010 , 115,		90
46	Indirect validation of tropospheric nitrogen dioxide retrieved from the OMI satellite instrument: Insight into the seasonal variation of nitrogen oxides at northern midlatitudes. <i>Journal of Geophysical Research</i> , 2010 , 115,		181
45	Comparison of OMI NO ₂ tropospheric columns with an ensemble of global and European regional air quality models. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 3273-3296	6.8	137
44	Constraint of anthropogenic NO _x emissions in China from different sectors: a new methodology using multiple satellite retrievals. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 63-78	6.8	152
43	The impact of the 2005 Gulf hurricanes on pollution emissions as inferred from Ozone Monitoring Instrument (OMI) nitrogen dioxide. <i>Atmospheric Environment</i> , 2010 , 44, 1443-1448	5.3	5
42	Reductions of NO ₂ detected from space during the 2008 Beijing Olympic Games. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	102
41	An aerosol boomerang: Rapid around-the-world transport of smoke from the December 2006 Australian forest fires observed from space. <i>Journal of Geophysical Research</i> , 2009 , 114,		76
40	Ozone production in boreal fire smoke plumes using observations from the Tropospheric Emission Spectrometer and the Ozone Monitoring Instrument. <i>Journal of Geophysical Research</i> , 2009 , 114,		37
39	Satellite observations and model simulations of tropospheric NO ₂ columns over south-eastern Europe. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 6119-6134	6.8	30
38	Validation of urban NO ₂ concentrations and their diurnal and seasonal variations observed from the SCIAMACHY and OMI sensors using in situ surface measurements in Israeli cities. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 3867-3879	6.8	169
37	The zonal structure of tropical O ₃ and CO as observed by the Tropospheric Emission Spectrometer in November 2004 [Part 2: Impact of surface emissions on O ₃ and its precursors. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 3563-3582	6.8	23
36	What can we learn about ship emission inventories from measurements of air pollutants over the Mediterranean Sea?. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 6815-6831	6.8	49
35	An improved tropospheric NO ₂ retrieval for OMI observations in the vicinity of mountainous terrain. <i>Atmospheric Measurement Techniques</i> , 2009 , 2, 401-416	4	79
34	Validation of OMI tropospheric NO ₂ observations during INTEX-B and application to constrain NO _x emissions over the eastern United States and Mexico. <i>Atmospheric Environment</i> , 2008 , 42, 4480-4497	5.2	158
33	Intercomparison of SCIAMACHY and OMI tropospheric NO ₂ columns: Observing the diurnal evolution of chemistry and emissions from space. <i>Journal of Geophysical Research</i> , 2008 , 113,		145
32	Comparison of tropospheric NO ₂ from in situ aircraft measurements with near-real-time and standard product data from OMI. <i>Journal of Geophysical Research</i> , 2008 , 113,		108
31	Spatial distribution of isoprene emissions from North America derived from formaldehyde column measurements by the OMI satellite sensor. <i>Journal of Geophysical Research</i> , 2008 , 113,		196
30	Validation of OMI tropospheric NO ₂ column densities using direct-Sun mode Brewer measurements at NASA Goddard Space Flight Center. <i>Journal of Geophysical Research</i> , 2008 , 113,		87

29	Trends, seasonal variability and dominant NO _x source derived from a ten year record of NO ₂ measured from space. <i>Journal of Geophysical Research</i> , 2008 , 113,		295
28	Assessing the distribution and growth rates of NO _x emission sources by inverting a 10-year record of NO ₂ satellite columns. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	120
27	Transpacific transport of ozone pollution and the effect of recent Asian emission increases on air quality in North America: an integrated analysis using satellite, aircraft, ozonesonde, and surface observations. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 6117-6136	6.8	312
26	Tropospheric vertical distribution of tropical Atlantic ozone observed by TES during the northern African biomass burning season. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	64
25	Intercomparison of SCIAMACHY nitrogen dioxide observations, in situ measurements and air quality modeling results over Western Europe. <i>Journal of Geophysical Research</i> , 2007 , 112,		93
24	Traffic restrictions associated with the Sino-African summit: Reductions of NO _x detected from space. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	52
23	Near-real time retrieval of tropospheric NO ₂ from OMI. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 2103-2118	6.8	403
22	SCIAMACHY tropospheric NO ₂ over Switzerland: estimates of NO _x lifetimes and impact of the complex Alpine topography on the retrieval. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 5971-5987	6.8	76
21	Algorithm for NO ₂ vertical column retrieval from the ozone monitoring instrument. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006 , 44, 1245-1258	8.1	227
20	Detection of the trend and seasonal variation in tropospheric NO ₂ over China. <i>Journal of Geophysical Research</i> , 2006 , 111,		212
19	Validation of MODIS aerosol observations over the Netherlands with GLOBE student measurements. <i>Journal of Geophysical Research</i> , 2006 , 111,		11
18	Multi-model ensemble simulations of tropospheric NO ₂ compared with GOME retrievals for the year 2000. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 2943-2979	6.8	118
17	Comparison of GOME tropospheric NO ₂ columns with NO ₂ profiles deduced from ground-based in situ measurements. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 3211-3229	6.8	53
16	Estimates of lightning NO _x production from GOME satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 2311-2331	6.8	100
15	Error analysis for tropospheric NO ₂ retrieval from space. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		513
14	Averaging kernels for DOAS total-column satellite retrievals. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 1285-1291	6.8	213
13	Five years of observations of ozone profiles over Lauder, New Zealand. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 18-1		6
12	Sentinel-5P TROPOMI NO ₂ retrieval: impact of version v2.2 improvements and comparisons with OMI and ground-based data		4

11	Constraints on ship NO _x emissions in Europe using GEOS-Chem and OMI satellite NO ₂ observations	3
10	Satellite observations indicate substantial spatiotemporal variability in biomass burning NO _x emission factors for South America	2
9	Key chemical NO _x sink uncertainties and how they influence top-down emissions of nitrogen oxides	6
8	Improving algorithms and uncertainty estimates for satellite NO ₂ retrievals: Results from the Quality Assurance for Essential Climate Variables (QA4ECV) project	2
7	The importance of surface reflectance anisotropy for cloud and NO ₂ retrievals from GOME-2 and OMI	2
6	S5P/TROPOMI NO ₂ slant column retrieval: method, stability, uncertainties, and comparisons against OMI	3
5	Validation of tropospheric NO ₂ column measurements of GOME-2A and OMI using MAX-DOAS and direct sun network observations	3
4	Improved spectral fitting of nitrogen dioxide from OMI in the 405–65 nm window	4
3	Impact of albedo and cloud retrievals on the NO ₂ tropospheric column derived from Sentinel-5P TROPOMI observations	3
2	An updated tropospheric chemistry reanalysis and emission estimates, TCR-2, for 2005–2018	3
1	Representativeness errors in comparing chemistry transport and chemistry climate models with satellite UV/Vis tropospheric column retrievals	3