

# Kelly Chance

## List of Publications by Year in descending order

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189  
papers

22,551  
citations

22153

59  
h-index

10158

140  
g-index

269  
all docs

269  
docs citations

269  
times ranked

11585  
citing authors

#	ARTICLE	IF	CITATIONS
1	The HITRAN 2008 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 533-572.	2.3	3,129
2	The HITRAN2012 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 4-50.	2.3	2,810
3	The HITRAN 2004 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 96, 139-204.	2.3	2,601
4	The HITRAN molecular spectroscopic database: edition of 2000 including updates through 2001. Journal of Quantitative Spectroscopy and Radiative Transfer, 2003, 82, 5-44.	2.3	1,080
5	Global inventory of nitrogen oxide emissions constrained by space-based observations of NO <sub>2</sub> columns. Journal of Geophysical Research, 2003, 108, .	3.3	442
6	Global partitioning of NO <sub>x</sub> sources using satellite observations: Relative roles of fossil fuel combustion, biomass burning and soil emissions. Faraday Discussions, 2005, 130, 407.	3.2	392
7	Ring effect studies: Rayleigh scattering, including molecular parameters for rotational Raman scattering, and the Fraunhofer spectrum. Applied Optics, 1997, 36, 5224.	2.1	366
8	An improved retrieval of tropospheric nitrogen dioxide from GOME. Journal of Geophysical Research, 2002, 107, ACH 9-1.	3.3	355
9	Mapping isoprene emissions over North America using formaldehyde column observations from space. Journal of Geophysical Research, 2003, 108, .	3.3	346
10	An improved high-resolution solar reference spectrum for earth's atmosphere measurements in the ultraviolet, visible, and near infrared. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 1289-1295.	2.3	346
11	Air mass factor formulation for spectroscopic measurements from satellites: Application to formaldehyde retrievals from the Global Ozone Monitoring Experiment. Journal of Geophysical Research, 2001, 106, 14539-14550.	3.3	318
12	The Ozone Monitoring Instrument: overview of 14 years in space. Atmospheric Chemistry and Physics, 2018, 18, 5699-5745.	4.9	259
13	Ozone profile retrievals from the Ozone Monitoring Instrument. Atmospheric Chemistry and Physics, 2010, 10, 2521-2537.	4.9	250
14	Quantifying the seasonal and interannual variability of North American isoprene emissions using satellite observations of the formaldehyde column. Journal of Geophysical Research, 2006, 111, .	3.3	240
15	Tropospheric emissions: Monitoring of pollution (TEMPO). Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 186, 17-39.	2.3	239
16	Spatial distribution of isoprene emissions from North America derived from formaldehyde column measurements by the OMI satellite sensor. Journal of Geophysical Research, 2008, 113, .	3.3	234
17	Application of satellite observations for timely updates to global anthropogenic NO <sub>x</sub> emission inventories. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	234
18	Space-based formaldehyde measurements as constraints on volatile organic compound emissions in east and south Asia and implications for ozone. Journal of Geophysical Research, 2007, 112, .	3.3	232

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19	Satellite observations of atmospheric methane and their value for quantifying methane emissions. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14371-14396.	4.9	230
20	Satellite observations of formaldehyde over North America from GOME. <i>Geophysical Research Letters</i> , 2000, 27, 3461-3464.	4.0	218
21	Sensitivity of ozone to bromine in the lower stratosphere. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	207
22	Evaluation of space-based constraints on global nitrogen oxide emissions with regional aircraft measurements over and downwind of eastern North America. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	181
23	Ozone profile and tropospheric ozone retrievals from the Global Ozone Monitoring Experiment: Algorithm description and validation. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	171
24	Analysis of BrO measurements from the Global Ozone Monitoring Experiment. <i>Geophysical Research Letters</i> , 1998, 25, 3335-3338.	4.0	167
25	Isoprene emissions in Africa inferred from OMI observations of formaldehyde columns. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6219-6235.	4.9	166
26	Evaluating a Space-Based Indicator of Surface Ozone Sensitivity Over Midlatitude Source Regions and Application to Decadal Trends. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 10-461.	3.3	165
27	New Era of Air Quality Monitoring from Space: Geostationary Environment Monitoring Spectrometer (GEMS). <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1-E22.	3.3	165
28	The GEISA spectroscopic database: Current and future archive for Earth and planetary atmosphere studies. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 1043-1059.	2.3	161
29	Remote sensed and in situ constraints on processes affecting tropical tropospheric ozone. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 815-838.	4.9	156
30	Updated Smithsonian Astrophysical Observatory Ozone Monitoring Instrument (SAO OMI) formaldehyde retrieval. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 19-32.	3.1	142
31	Constraining global isoprene emissions with Global Ozone Monitoring Experiment (GOME) formaldehyde column measurements. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	140
32	Satellite mapping of rain-induced nitric oxide emissions from soils. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	137
33	Formaldehyde (HCHO) As a Hazardous Air Pollutant: Mapping Surface Air Concentrations from Satellite and Inferring Cancer Risks in the United States. <i>Environmental Science &amp; Technology</i> , 2017, 51, 5650-5657.	10.0	131
34	Seasonal and interannual variability of North American isoprene emissions as determined by formaldehyde column measurements from space. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	4.0	125
35	The United States' Next Generation of Atmospheric Composition and Coastal Ecosystem Measurements: NASA's Geostationary Coastal and Air Pollution Events (GEO-CAPE) Mission. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 1547-1566.	3.3	118
36	A new interpretation of total column BrO during Arctic spring. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	116

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37	Evaluation of GOME satellite measurements of tropospheric NO <sub>2</sub> and HCHO using regional data from aircraft campaigns in the southeastern United States. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	113
38	Remote Sensing of Tropospheric Pollution from Space. <i>Bulletin of the American Meteorological Society</i> , 2008, 89, 805-822.	3.3	108
39	Intercomparison methods for satellite measurements of atmospheric composition: application to tropospheric ozone from TES and OMI. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4725-4739.	4.9	106
40	Application of OMI, SCIAMACHY, and GOME-2 satellite SO <sub>2</sub> retrievals for detection of large emission sources. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,399.	3.3	102
41	Net ecosystem fluxes of isoprene over tropical South America inferred from Global Ozone Monitoring Experiment (GOME) observations of HCHO columns. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	99
42	Observing atmospheric formaldehyde (HCHO) from space: validation and intercomparison of six retrievals from four satellites (OMI, GOME2A, GOME2B, OMPS) with SEAC&lt;sup&gt;4&lt;/sup&lt;/sup&gt;RS aircraft observations over the southeast US. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 13477-13490.	4.9	99
43	Satellite observation of lowermost tropospheric ozone by multispectral synergism of IASI thermal infrared and GOME-2 ultraviolet measurements over Europe. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9675-9693.	4.9	97
44	Evidence of lightning NO <sub>x</sub> and convective transport of pollutants in satellite observations over North America. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	95
45	Anthropogenic emissions of highly reactive volatile organic compounds in eastern Texas inferred from oversampling of satellite (OMI) measurements of HCHO columns. <i>Environmental Research Letters</i> , 2014, 9, 114004.	5.2	95
46	Estimating European volatile organic compound emissions using satellite observations of formaldehyde from the Ozone Monitoring Instrument. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11501-11517.	4.9	94
47	A numerical testbed for remote sensing of aerosols, and its demonstration for evaluating retrieval synergy from a geostationary satellite constellation of GEO-CAPE and GOES-R. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 146, 510-528.	2.3	94
48	The formaldehyde budget as seen by a global-scale multi-constraint and multi-species inversion system. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6699-6721.	4.9	93
49	Improved tropospheric ozone profile retrievals using OMI and TES radiances. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	85
50	Top-down isoprene emissions over tropical South America inferred from SCIAMACHY and OMI formaldehyde columns. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6849-6868.	3.3	84
51	First observations of iodine oxide from space. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	83
52	Ultraviolet and visible absorption cross-sections for HITRAN. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2003, 82, 491-504.	2.3	81
53	Improved algorithm for MODIS satellite retrievals of aerosol optical depths over western North America. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	77
54	Validation of Ozone Monitoring Instrument (OMI) ozone profiles and stratospheric ozone columns with Microwave Limb Sounder (MLS) measurements. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2539-2549.	4.9	77

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55	Retrievals of sulfur dioxide from the Global Ozone Monitoring Experiment 2 (GOME-2) using an optimal estimation approach: Algorithm and initial validation. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	74
56	Anthropogenic emissions in Nigeria and implications for atmospheric ozone pollution: A view from space. <i>Atmospheric Environment</i> , 2014, 99, 32-40.	4.1	73
57	Glyoxal yield from isoprene oxidation and relation to formaldehyde: chemical mechanism, constraints from SENEX aircraft observations, and interpretation of OMI satellite data. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8725-8738.	4.9	72
58	Undersampling correction for array detector-based satellite spectrometers. <i>Applied Optics</i> , 2005, 44, 1296.	2.1	71
59	Latitudinal and vertical distribution of bromine monoxide in the lower stratosphere from Scanning Imaging Absorption Spectrometer for Atmospheric Chartography limb scattering measurements. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	70
60	Long-term (2005–2014) trends in formaldehyde (HCHO) columns across North America as seen by the OMI satellite instrument: Evidence of changing emissions of volatile organic compounds. <i>Geophysical Research Letters</i> , 2017, 44, 7079-7086.	4.0	68
61	Glyoxal retrieval from the Ozone Monitoring Instrument. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3891-3907.	3.1	67
62	Global satellite analysis of the relation between aerosols and short-lived trace gases. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1255-1267.	4.9	65
63	Revisiting the effectiveness of HCHO/NO <sub>2</sub> ratios for inferring ozone sensitivity to its precursors using high resolution airborne remote sensing observations in a high ozone episode during the KORUS-AQ campaign. <i>Atmospheric Environment</i> , 2020, 224, 117341.	4.1	65
64	A physics-based approach to oversample multi-satellite, multispecies observations to a common grid. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 6679-6701.	3.1	64
65	Detection of biomass burning combustion products in Southeast Asia from backscatter data taken by the GOME Spectrometer. <i>Geophysical Research Letters</i> , 1998, 25, 1317-1320.	4.0	63
66	Analysis of satellite-derived Arctic tropospheric BrO columns in conjunction with aircraft measurements during ARCTAS and ARCPAC. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1255-1285.	4.9	63
67	First directly retrieved global distribution of tropospheric column ozone from GOME: Comparison with the GEOS-CHEM model. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	61
68	Ozone air quality measurement requirements for a geostationary satellite mission. <i>Atmospheric Environment</i> , 2011, 45, 7143-7150.	4.1	61
69	Global ozone–CO correlations from OMI and AIRS: constraints on tropospheric ozone sources. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9321-9335.	4.9	60
70	Multi-spectral sensitivity studies for the retrieval of tropospheric and lowermost tropospheric ozone from simulated clear-sky GEO-CAPE measurements. <i>Atmospheric Environment</i> , 2011, 45, 7151-7165.	4.1	59
71	Potential of next-generation imaging spectrometers to detect and quantify methane point sources from space. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5655-5668.	3.1	58
72	SCIAMACHY Level 1 data: calibration concept and in-flight calibration. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 5347-5367.	4.9	57

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73	Tropospheric emissions: monitoring of pollution (TEMPO). Proceedings of SPIE, 2013, , .	0.8	57
74	Absorption cross-sections of ozone in the ultraviolet and visible spectral regions: Status report 2015. Journal of Molecular Spectroscopy, 2016, 327, 105-121.	1.2	57
75	Stratospheric profiles of nitrogen dioxide observed by Optical Spectrograph and Infrared Imager System on the Odin satellite. Journal of Geophysical Research, 2003, 108, .	3.3	56
76	Springtime transitions of NO <sub>2</sub> , CO, and O <sub>3</sub> over North America: Model evaluation and analysis. Journal of Geophysical Research, 2008, 113, .	3.3	56
77	Formaldehyde columns from the Ozone Monitoring Instrument: Urban versus background levels and evaluation using aircraft data and a global model. Journal of Geophysical Research, 2011, 116, .	3.3	56
78	Evaluation of AIRS, IASI, and OMI ozone profile retrievals in the extratropical tropopause region using in situ aircraft measurements. Journal of Geophysical Research, 2009, 114, .	3.3	55
79	Characterization and correction of Global Ozone Monitoring Experiment 2 ultraviolet measurements and application to ozone profile retrievals. Journal of Geophysical Research, 2012, 117, .	3.3	55
80	Widespread persistent near-surface ozone depletion at northern high latitudes in spring. Geophysical Research Letters, 2003, 30, .	4.0	53
81	Impact of using different ozone cross sections on ozone profile retrievals from Global Ozone Monitoring Experiment (GOME) ultraviolet measurements. Atmospheric Chemistry and Physics, 2007, 7, 3571-3578.	4.9	53
82	Impact of very short-lived halogens on stratospheric ozone abundance and UV radiation in a geo-engineered atmosphere. Atmospheric Chemistry and Physics, 2012, 12, 10945-10955.	4.9	53
83	Validation of 10-year SAO OMI Ozone Profile (PROFOZ) product using ozonesonde observations. Atmospheric Measurement Techniques, 2017, 10, 2455-2475.	3.1	53
84	The TSIS-1 Hybrid Solar Reference Spectrum. Geophysical Research Letters, 2021, 48, e2020GL091709.	4.0	53
85	Improved model of isoprene emissions in Africa using Ozone Monitoring Instrument (OMI) satellite observations of formaldehyde: implications for oxidants and particulate matter. Atmospheric Chemistry and Physics, 2014, 14, 7693-7703.	4.9	52
86	The unique OMI HCHO/NO <sub>2</sub> feature during the 2008 Beijing Olympics: Implications for ozone production sensitivity. Atmospheric Environment, 2011, 45, 3103-3111.	4.1	50
87	Nitrogen dioxide observations from the Geostationary Trace gas and Aerosol Sensor Optimization (GeoTASO) airborne instrument: Retrieval algorithm and measurements during DISCOVER-AQ Texas 2013. Atmospheric Measurement Techniques, 2016, 9, 2647-2668.	3.1	50
88	Long-term tropospheric formaldehyde concentrations deduced from ground-based fourier transform solar infrared measurements. Atmospheric Chemistry and Physics, 2009, 9, 7131-7142.	4.9	49
89	Smithsonian Astrophysical Observatory Ozone Mapping and Profiler Suite (SAO OMPS) formaldehyde retrieval. Atmospheric Measurement Techniques, 2016, 9, 2797-2812.	3.1	48
90	Can a state-of-the-art chemistry transport model simulate Amazonian tropospheric chemistry?. Journal of Geophysical Research, 2011, 116, .	3.3	47

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91	Hotspot of glyoxal over the Pearl River delta seen from the OMI satellite instrument: implications for emissions of aromatic hydrocarbons. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4631-4639.	4.9	47
92	Adjoint inversion of Chinese non-methane volatile organic compound emissions using space-based observations of formaldehyde and glyoxal. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15017-15046.	4.9	46
93	Stratospheric and tropospheric NO <sub>2</sub> observed by SCIAMACHY: first results. <i>Advances in Space Research</i> , 2004, 34, 780-785.	2.6	44
94	Characteristics of tropospheric ozone depletion events in the Arctic spring: analysis of the ARCTAS, ARCPAC, and ARCIONS measurements and satellite BrO observations. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 9909-9922.	4.9	42
95	Monitoring Air Quality from Space: The Case for the Geostationary Platform. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 221-233.	3.3	41
96	Halogen-driven low-altitude O <sub>3</sub> and hydrocarbon losses in spring at northern high latitudes. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	40
97	Water vapor retrieval from OMI visible spectra. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 1901-1913.	3.1	40
98	Monitoring high-ozone events in the US Intermountain West using TEMPO geostationary satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6261-6271.	4.9	40
99	The smithsonian astrophysical observatory database SAO92. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1994, 52, 447-457.	2.3	39
100	Nitrogen dioxide and formaldehyde measurements from the GEOstationary Coastal and Air Pollution Events (GEO-CAPE) Airborne Simulator over Houston, Texas. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5941-5964.	3.1	39
101	Evaluation of Global Ozone Monitoring Experiment (GOME) ozone profiles from nine different algorithms. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	38
102	Tropospheric ozone column retrieval at northern mid-latitudes from the Ozone Monitoring Instrument by means of a neural network algorithm. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 2375-2388.	3.1	38
103	The role of OH production in interpreting the variability of CH <sub>2</sub> O columns in the southeast U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 478-493.	3.3	38
104	Revised ultraviolet absorption cross sections of H <sub>2</sub> CO for the HITRAN database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 1509-1510.	2.3	37
105	Evaluation of ozone profile and tropospheric ozone retrievals from GEMS and OMI spectra. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 239-249.	3.1	36
106	An optimal-estimation-based aerosol retrieval algorithm using OMI near-UV observations. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 177-193.	4.9	35
107	Tibetan middle tropospheric ozone minimum in June discovered from GOME observations. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	34
108	Correction to "First directly retrieved global distribution of tropospheric column ozone from GOME: Comparison with the GEOS-CHEM model". <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	33

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109	Intercomparison of GOME, ozonesonde, and SAGE II measurements of ozone: Demonstration of the need to homogenize available ozonesonde data sets. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	31
110	Assessing sources of uncertainty in formaldehyde air mass factors over tropical South America: Implications for top-down isoprene emission estimates. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	31
111	Characterization and correction of OMPS nadir mapper measurements for ozone profile retrievals. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 4373-4388.	3.1	31
112	An inversion of NO <sub>x</sub> and non-methane volatile organic compound (NMVOC) emissions using satellite observations during the KORUS-AQ campaign and implications for surface ozone over East Asia. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 9837-9854.	4.9	30
113	Improvement of OMI ozone profile retrievals in the upper troposphere and lower stratosphere by the use of a tropopause-based ozone profile climatology. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 2239-2254.	3.1	29
114	Improved ozone profile retrievals from GOME data with degradation correction in reflectance. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 1575-1583.	4.9	28
115	Improved monitoring of surface ozone by joint assimilation of geostationary satellite observations of ozone and CO. <i>Atmospheric Environment</i> , 2014, 84, 254-261.	4.1	28
116	Validation of OMI HCHO data and its analysis over Asia. <i>Science of the Total Environment</i> , 2014, 490, 93-105.	8.0	28
117	Validation of OMI total ozone retrievals from the SAO ozone profile algorithm and three operational algorithms with Brewer measurements. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 667-683.	4.9	28
118	The impact of local surface changes in Borneo on atmospheric composition at wider spatial scales: coastal processes, land-use change and air quality. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 3210-3224.	4.0	27
119	Characterization of soluble bromide measurements and a case study of BrO observations during ARCTAS. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1327-1338.	4.9	27
120	Characterization and verification of ACAM slit functions for trace-gas retrievals during the 2011 DISCOVER-AQ flight campaign. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 751-759.	3.1	27
121	Preliminary results for HCHO and BrO from the EOS-Aura Ozone Monitoring Instrument. , 2004, , .		26
122	Five decades observing Earth's atmospheric trace gases using ultraviolet and visible backscatter solar radiation from space. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 238, 106478.	2.3	26
123	Unraveling pathways of elevated ozone induced by the 2020 lockdown in Europe by an observationally constrained regional model using TROPOMI. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 18227-18245.	4.9	25
124	<title>Scanning imaging absorption spectrometer for atmospheric chartography</title>. , 1991, , .		24
125	<title>Retrieval and molecule sensitivity studies for the global ozone monitoring experiment and the scanning imaging absorption spectrometer for atmospheric chartography</title>. , 1991, 1491, 151.		24
126	An overview of the nadir sensor and algorithms for the NPOESS ozone mapping and profiler suite (OMPS). , 2003, , .		24

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127	Observation of ozone enhancement in the lower troposphere over East Asia from a space-borne ultraviolet spectrometer. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 9865-9881.	4.9	24
128	Characterization of the OCO-2 instrument line shape functions using on-orbit solar measurements. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 939-953.	3.1	24
129	The added value of a visible channel to a geostationary thermal infrared instrument to monitor ozone for air quality. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 2185-2201.	3.1	23
130	Link Between Arctic Tropospheric BrO Explosion Observed From Space and Sea Salt Aerosols From Blowing Snow Investigated Using Ozone Monitoring Instrument BrO Data and GEOS Data Assimilation System. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6954-6983.	3.3	23
131	A geostationary thermal infrared sensor to monitor the lowermost troposphere: O <sub>3</sub> and CO retrieval studies. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 297-317.	3.1	22
132	Interpreting satellite column observations of formaldehyde over tropical South America. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 1741-1751.	3.4	21
133	Validation of satellite formaldehyde (HCHO) retrievals using observations from 12 aircraft campaigns. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12329-12345.	4.9	21
134	Validation of 10-year SAO OMI ozone profile (PROFOZ) product using Aura MLS measurements. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 17-32.	3.1	20
135	Reevaluating the Use of O <sub>2</sub> Å <sup>1</sup> g Band in Spaceborne Remote Sensing of Greenhouse Gases. <i>Geophysical Research Letters</i> , 2018, 45, 5779-5787.	4.0	19
136	Evaluating AURA/OMI ozone profiles using ozonesonde data and EPA surface measurements for August 2006. <i>Atmospheric Environment</i> , 2011, 45, 5523-5530.	4.1	18
137	The impact of using different ozone cross sections on ozone profile retrievals from OMI UV measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 130, 365-372.	2.3	18
138	Sensitivity of formaldehyde (HCHO) column measurements from a geostationary satellite to temporal variation of the air mass factor in East Asia. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4673-4686.	4.9	18
139	Ozone Monitoring Instrument (OMI) Total Column Water Vapor version 4 validation and applications. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5183-5199.	3.1	18
140	Dynamical and chemical features of a cutoff low over northeast China in July 2007: Results from satellite measurements and reanalysis. <i>Advances in Atmospheric Sciences</i> , 2013, 30, 525-540.	4.3	17
141	Validation and update of OMI Total Column Water Vapor product. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11379-11393.	4.9	17
142	A semi-empirical potential energy surface and line list for H <sub>2</sub> O extending into the near-ultraviolet. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10015-10027.	4.9	17
143	Cloud retrieval algorithm for the European Space Agency's Global Ozone Monitoring Experiment. , 1998, , .		16
144	Dynamic formation of extreme ozone minimum events over the Tibetan Plateau during northern winters 1987-2001. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	16

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145	Estimating the influence of lightning on upper tropospheric ozone using NLDN lightning data and CMAQ model. <i>Atmospheric Environment</i> , 2013, 67, 219-228.	4.1	16
146	The GeoTASO airborne spectrometer project. <i>Proceedings of SPIE</i> , 2014, , .	0.8	16
147	Description of a formaldehyde retrieval algorithm for the Geostationary Environment Monitoring Spectrometer (GEMS). <i>Atmospheric Measurement Techniques</i> , 2019, 12, 3551-3571.	3.1	16
148	Towards a satellite formaldehyde "in situ hybrid estimate for organic aerosol abundance. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2765-2785.	4.9	15
149	Pressure Broadening of the 2.4978-THz Rotational Lines of HO <sub>2</sub> by N <sub>2</sub> and O <sub>2</sub> . <i>Journal of Molecular Spectroscopy</i> , 1994, 163, 67-70.	1.2	14
150	TEMPO Green Paper: Chemistry, physics, and meteorology experiments with the Tropospheric Emissions: monitoring of pollution instrument. , 2019, , .		14
151	An ozone depletion event in the sub-arctic surface layer over Hudson Bay, Canada. <i>Journal of Atmospheric Chemistry</i> , 2007, 57, 255-280.	3.2	13
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