Kelly Chance

List of Publications by Year
in descending order

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189 papers	22,551 citations	22099 59 h-index	10127 140 g-index
269 all docs	269 docs citations	269 times ranked	11585 citing authors

#	Article	IF	Citations
1	Dealing with spatial heterogeneity in pointwise-to-gridded- data comparisons. Atmospheric Measurement Techniques, 2022, 15, 41-59.	1.2	10
2	Impact of Using a New High-Resolution Solar Reference Spectrum on OMI Ozone Profile Retrievals. Remote Sensing, 2022, 14, 37.	1.8	2
3	An optimal estimation-based retrieval of upper atmospheric oxygen airglow and temperature from SCIAMACHY limb observations. Atmospheric Measurement Techniques, 2022, 15, 3721-3745.	1.2	0
4	Evaluation of the Stratospheric and Tropospheric Bromine Burden Over Fairbanks, Alaska Based on Column Retrievals of Bromine Monoxide. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD032896.	1.2	1
5	Radiative transfer acceleration based on the principal component analysis and lookup table of corrections: optimization and application to UV ozone profile retrievals. Atmospheric Measurement Techniques, 2021, 14, 2659-2672.	1.2	3
6	Spectral calibration of the MethaneAIR instrument. Atmospheric Measurement Techniques, 2021, 14, 3737-3753.	1.2	11
7	A precise photometric ratio via laser excitation of the sodium layer â€“ II. Two-photon excitation using lasers detuned from 589.16 and 819.71Ânm resonances. Monthly Notices of the Royal Astronomical Society, 2021, 508, 4412-4428.	1.6	4
8	A precise photometric ratio via laser excitation of the sodium layer â€“ I. One-photon excitation using 342.78Ânm light. Monthly Notices of the Royal Astronomical Society, 2021, 508, 4399-4411.	1.6	4
9	The TSISâ€1 Hybrid Solar Reference Spectrum. Geophysical Research Letters, 2021, 48, e2020GL091709.	1.5	53
10	Revolutionary Air-Pollution Applications from Future Tropospheric Emissions: Monitoring of Pollution (TEMPO) Observations. Bulletin of the American Meteorological Society, 2021, 102, E1735-E1741.	1.7	6
11	Unraveling pathways of elevated ozone induced by the 2020 lockdown in Europe by an observationally constrained regional model using TROPOMI. Atmospheric Chemistry and Physics, 2021, 21, 18227-18245.	1.9	25
12	New Era of Air Quality Monitoring from Space: Geostationary Environment Monitoring Spectrometer (GEMS). Bulletin of the American Meteorological Society, 2020, 101, E1-E22.	1.7	165
13	Quantifying the Impact of Excess Moisture From Transpiration From Crops on an Extreme Heat Wave Event in the Midwestern U.S.: A Topâ€Down Constraint From Moderate Resolution Imaging Spectroradiometer Water Vapor Retrieval. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031941.	1.2	5
14	Revisiting the effectiveness of HCHO/NO2 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. Atmospheric Environment, 2020, 224, 117341.	1.9	65
15	Response of Hurricane Harveyâ€™s rainfall to anthropogenic aerosols: A sensitivity study based on spectral bin microphysics with simulated aerosols. Atmospheric Research, 2020, 242, 104965.	1.8	9
16	A semi-empirical potential energy surface and line list for H₂¹⁶O extending into the near-ultraviolet. Atmospheric Chemistry and Physics, 2020, 20, 10015-10027.	1.9	17
17	Validation of satellite formaldehyde (HCHO) retrievals using observations from 12 aircraft campaigns. Atmospheric Chemistry and Physics, 2020, 20, 12329-12345.	1.9	21
18	An inversion of NO_{<i>x</i>} and non-methane volatile organic compound (NMVOC) emissions using satellite observations during the KORUS-AQ campaign and implications for surface ozone over East Asia. Atmospheric Chemistry and Physics, 2020, 20, 9837-9854.	1.9	30

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19	Impact of using a new ultraviolet ozone absorption cross-section dataset on OMI ozone profile retrievals. Atmospheric Measurement Techniques, 2020, 13, 5845-5854.	1.2	6
20	High spatial and temporal resolution estimates of air pollutants from the TEMPO satellite: Methodological opportunities and challenges for environmental epidemiology studies. ISEE Conference Abstracts, 2020, 2020, .	0.0	0
21	Description of a formaldehyde retrieval algorithm for the Geostationary Environment Monitoring Spectrometer (GEMS). Atmospheric Measurement Techniques, 2019, 12, 3551-3571.	1.2	16
22	Linearization of the effect of slit function changes for improving Ozone Monitoring Instrument ozone profile retrievals. Atmospheric Measurement Techniques, 2019, 12, 3777-3788.	1.2	6
23	Cross-evaluation of GEMS tropospheric ozone retrieval performance using OMI data and the use of an ozonesonde dataset over East Asia for validation. Atmospheric Measurement Techniques, 2019, 12, 5201-5215.	1.2	12
24	Ozone Monitoring Instrument (OMI) Total Column Water Vapor version 4 validation and applications. Atmospheric Measurement Techniques, 2019, 12, 5183-5199.	1.2	18
25	Towards a satellite formaldehyde â€“ in situ hybrid estimate for organic aerosol abundance. Atmospheric Chemistry and Physics, 2019, 19, 2765-2785.	1.9	15
26	OMI total bromine monoxide (OMBRO) data product: algorithm, retrieval and measurement comparisons. Atmospheric Measurement Techniques, 2019, 12, 2067-2084.	1.2	6
27	Five decades observing Earthâ€™s atmospheric trace gases using ultraviolet and visible backscatter solar radiation from space. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 238, 106478.	1.1	26
28	Explicit Aerosol Correction of OMI Formaldehyde Retrievals. Earth and Space Science, 2019, 6, 2087-2105.	1.1	11
29	Potential of next-generation imaging spectrometers to detect and quantify methane point sources from space. Atmospheric Measurement Techniques, 2019, 12, 5655-5668.	1.2	58
30	TEMPO Green Paper: Chemistry, physics, and meteorology experiments with the Tropospheric Emissions: monitoring of pollution instrument. , 2019, , .		14
31	Link Between Arctic Tropospheric BrO Explosion Observed From Space and Seaâ€Salt Aerosols From Blowing Snow Investigated Using Ozone Monitoring Instrument BrO Data and GEOSâ€5 Data Assimilation System. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6954-6983.	1.2	23
32	Adjoint inversion of Chinese non-methane volatile organic compound emissions using space-based observations of formaldehyde and glyoxal. Atmospheric Chemistry and Physics, 2018, 18, 15017-15046.	1.9	46
33	Nitrogen dioxide and formaldehyde measurements from the GEOstationary Coastal and Air Pollution Events (GEO-CAPE) Airborne Simulator over Houston, Texas. Atmospheric Measurement Techniques, 2018, 11, 5941-5964.	1.2	39
34	A physics-based approach to oversample multi-satellite, multispecies observations to a common grid. Atmospheric Measurement Techniques, 2018, 11, 6679-6701.	1.2	64
35	Reevaluating the Use of O₂Âa¹Î”_g Band in Spaceborne Remote Sensing of Greenhouse Gases. Geophysical Research Letters, 2018, 45, 5779-5787.	1.5	19
36	The Ozone Monitoring Instrument: overview of 14 years in space. Atmospheric Chemistry and Physics, 2018, 18, 5699-5745.	1.9	259

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37	Validation of 10-year SAO OMI ozone profile (PROFOZ) product using Aura MLS measurements. Atmospheric Measurement Techniques, 2018, 11, 17-32.	1.2	20
38	Formaldehyde (HCHO) As a Hazardous Air Pollutant: Mapping Surface Air Concentrations from Satellite and Inferring Cancer Risks in the United States. Environmental Science & Technology, 2017, 51, 5650-5657.	4.6	131
39	Evaluating a Spaceâ€Based Indicator of Surface Ozoneâ€NO_xâ€VOC Sensitivity Over Midlatitude Source Regions and Application to Decadal Trends. Journal of Geophysical Research D: Atmospheres, 2017, 122, 10-461.	1.2	165
40	A Geostationary air quality monitor for the Middle East. Journal of Physics: Conference Series, 2017, 869, 012085.	0.3	0
41	Tropospheric emissions: Monitoring of pollution (TEMPO). Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 186, 17-39.	1.1	239
42	Longâ€term (2005â€“2014) trends in formaldehyde (HCHO) columns across North America as seen by the OMI satellite instrument: Evidence of changing emissions of volatile organic compounds. Geophysical Research Letters, 2017, 44, 7079-7086.	1.5	68
43	Sensitivity of formaldehyde (HCHO) column measurements from a geostationary satellite to temporal variation of the air mass factor in East Asia. Atmospheric Chemistry and Physics, 2017, 17, 4673-4686.	1.9	18
44	Glyoxal yield from isoprene oxidation and relation to formaldehyde: chemical mechanism, constraints from SENEX aircraft observations, and interpretation of OMI satellite data. Atmospheric Chemistry and Physics, 2017, 17, 8725-8738.	1.9	72
45	Characterization and correction of OMPS nadir mapper measurements for ozone profile retrievals. Atmospheric Measurement Techniques, 2017, 10, 4373-4388.	1.2	31
46	Deriving the slit functions from OMI solar observations and its implications for ozone-profile retrieval. Atmospheric Measurement Techniques, 2017, 10, 3677-3695.	1.2	13
47	Validation of 10-year SAO OMI Ozone Profile (PROFOZ) product using ozonesonde observations. Atmospheric Measurement Techniques, 2017, 10, 2455-2475.	1.2	53
48	Characterization of the OCO-2 instrument line shape functions using on-orbit solar measurements. Atmospheric Measurement Techniques, 2017, 10, 939-953.	1.2	24
49	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.	1.2	50
50	Smithsonian Astrophysical Observatory Ozone Mapping and Profiler Suite (SAO OMPS) formaldehyde retrieval. Atmospheric Measurement Techniques, 2016, 9, 2797-2812.	1.2	48
51	A climatology of visible surface reflectance spectra. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 180, 39-46.	1.1	13
52	Absorption cross-sections of ozone in the ultraviolet and visible spectral regions: Status report 2015. Journal of Molecular Spectroscopy, 2016, 327, 105-121.	0.4	57
53	Observing atmospheric formaldehyde (HCHO) from space: validation and intercomparison of six retrievals from four satellites (OMI, GOME2A, GOME2B, OMPS) with SEAC⁴RS aircraft observations over the southeast US. Atmospheric Chemistry and Physics, 2016, 16, 13477-13490.	1.9	99
54	Validation and update of OMI Total Column Water Vapor product. Atmospheric Chemistry and Physics, 2016, 16, 11379-11393.	1.9	17

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55	Satellite observations of atmospheric methane and their value for quantifying methane emissions. Atmospheric Chemistry and Physics, 2016, 16, 14371-14396.	1.9	230
56	An optimal-estimation-based aerosol retrieval algorithm using OMI near-UV observations. Atmospheric Chemistry and Physics, 2016, 16, 177-193.	1.9	35
57	Hotspot of glyoxal over the Pearl River delta seen from the OMI satellite instrument: implications for emissions of aromatic hydrocarbons. Atmospheric Chemistry and Physics, 2016, 16, 4631-4639.	1.9	47
58	The role of OH production in interpreting the variability of CH₂O columns in the southeast U.S.. Journal of Geophysical Research D: Atmospheres, 2016, 121, 478-493.	1.2	38
59	Improvement of OMI ozone profile retrievals by simultaneously fitting polar mesospheric clouds. Atmospheric Measurement Techniques, 2016, 9, 4521-4531.	1.2	6
60	Validation of OMI total ozone retrievals from the SAO ozone profile algorithm and three operational algorithms with Brewer measurements. Atmospheric Chemistry and Physics, 2015, 15, 667-683.	1.9	28
61	Observation of ozone enhancement in the lower troposphere over East Asia from a space-borne ultraviolet spectrometer. Atmospheric Chemistry and Physics, 2015, 15, 9865-9881.	1.9	24
62	Updated Smithsonian Astrophysical Observatory Ozone Monitoring Instrument (SAO OMI) formaldehyde retrieval. Atmospheric Measurement Techniques, 2015, 8, 19-32.	1.2	142
63	Analysis of ACAM Data for Trace Gas Retrievals during the 2011 DISCOVER-AQ Campaign. Journal of Spectroscopy, 2015, 2015, 1-7.	0.6	4
64	Characterization and verification of ACAM slit functions for trace-gas retrievals during the 2011 DISCOVER-AQ flight campaign. Atmospheric Measurement Techniques, 2015, 8, 751-759.	1.2	27
65	Glyoxal retrieval from the Ozone Monitoring Instrument. Atmospheric Measurement Techniques, 2014, 7, 3891-3907.	1.2	67
66	Water vapor retrieval from OMI visible spectra. Atmospheric Measurement Techniques, 2014, 7, 1901-1913.	1.2	40
67	Anthropogenic emissions of highly reactive volatile organic compounds in eastern Texas inferred from oversampling of satellite (OMI) measurements of HCHO columns. Environmental Research Letters, 2014, 9, 114004.	2.2	95
68	The added value of a visible channel to a geostationary thermal infrared instrument to monitor ozone for air quality. Atmospheric Measurement Techniques, 2014, 7, 2185-2201.	1.2	23
69	Anthropogenic emissions in Nigeria and implications for atmospheric ozone pollution: A view from space. Atmospheric Environment, 2014, 99, 32-40.	1.9	73
70	The GeoTASO airborne spectrometer project. Proceedings of SPIE, 2014, , .	0.8	16
71	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. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 146, 510-528.	1.1	94
72	Improved monitoring of surface ozone by joint assimilation of geostationary satellite observations of ozone and CO. Atmospheric Environment, 2014, 84, 254-261.	1.9	28

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73	Validation of OMI HCHO data and its analysis over Asia. Science of the Total Environment, 2014, 490, 93-105.	3.9	28
74	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.	1.9	52
75	Monitoring high-ozone events in the US Intermountain West using TEMPO geostationary satellite observations. Atmospheric Chemistry and Physics, 2014, 14, 6261-6271.	1.9	40
76	Estimating the influence of lightning on upper tropospheric ozone using NLDN lightning data and CMAQ model. Atmospheric Environment, 2013, 67, 219-228.	1.9	16
77	Topâ€down isoprene emissions over tropical South America inferred from SCIAMACHY and OMI formaldehyde columns. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6849-6868.	1.2	84
78	Tropospheric emissions: monitoring of pollution (TEMPO). Proceedings of SPIE, 2013, , .	0.8	57
79	The HITRAN2012 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 4-50.	1.1	2,810
80	Dynamical and chemical features of a cutoff low over northeast China in July 2007: Results from satellite measurements and reanalysis. Advances in Atmospheric Sciences, 2013, 30, 525-540.	1.9	17
81	The impact of using different ozone cross sections on ozone profile retrievals from OMI UV measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 365-372.	1.1	18
82	New retrieval of BrO from SCIAMACHY limb: an estimate of the stratospheric bromine loading during April 2008. Atmospheric Measurement Techniques, 2013, 6, 2549-2561.	1.2	8
83	Evaluation of ozone profile and tropospheric ozone retrievals from GEMS and OMI spectra. Atmospheric Measurement Techniques, 2013, 6, 239-249.	1.2	36
84	Global ozoneâ€“CO correlations from OMI and AIRS: constraints on tropospheric ozone sources. Atmospheric Chemistry and Physics, 2013, 13, 9321-9335.	1.9	60
85	Satellite observation of lowermost tropospheric ozone by multispectral synergism of IASI thermal infrared and GOME-2 ultraviolet measurements over Europe. Atmospheric Chemistry and Physics, 2013, 13, 9675-9693.	1.9	97
86	Application of OMI, SCIAMACHY, and GOMEâ€2 satellite SO₂ retrievals for detection of large emission sources. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,399.	1.2	102
87	Improvement of OMI ozone profile retrievals in the upper troposphere and lower stratosphere by the use of a tropopause-based ozone profile climatology. Atmospheric Measurement Techniques, 2013, 6, 2239-2254.	1.2	29
88	Monitoring Air Quality from Space: The Case for the Geostationary Platform. Bulletin of the American Meteorological Society, 2012, 93, 221-233.	1.7	41
89	The United States' Next Generation of Atmospheric Composition and Coastal Ecosystem Measurements: NASA's Geostationary Coastal and Air Pollution Events (GEO-CAPE) Mission. Bulletin of the American Meteorological Society, 2012, 93, 1547-1566.	1.7	118
90	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.	1.9	53

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91	Characterization of soluble bromide measurements and a case study of BrO observations during ARCTAS. Atmospheric Chemistry and Physics, 2012, 12, 1327-1338.	1.9	27
92	Characteristics of tropospheric ozone depletion events in the Arctic spring: analysis of the ARCTAS, ARCPAC, and ARCIONS measurements and satellite BrO observations. Atmospheric Chemistry and Physics, 2012, 12, 9909-9922.	1.9	42
93	Analysis of satellite-derived Arctic tropospheric BrO columns in conjunction with aircraft measurements during ARCTAS and ARCPAC. Atmospheric Chemistry and Physics, 2012, 12, 1255-1285.	1.9	63
94	Isoprene emissions in Africa inferred from OMI observations of formaldehyde columns. Atmospheric Chemistry and Physics, 2012, 12, 6219-6235.	1.9	166
95	The formaldehyde budget as seen by a global-scale multi-constraint and multi-species inversion system. Atmospheric Chemistry and Physics, 2012, 12, 6699-6721.	1.9	93
96	Assessing sources of uncertainty in formaldehyde air mass factors over tropical South America: Implications for topâ€€down isoprene emission estimates. Journal of Geophysical Research, 2012, 117, .	3.3	31
97	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
98	Enhanced Mid-Latitude Tropospheric Column Ozone over East Asia: Coupled Effects of Stratospheric Ozone Intrusion and Anthropogenic Sources. Journal of the Meteorological Society of Japan, 2012, 90, 207-222.	0.7	9
99	The impact of local surface changes in Borneo on atmospheric composition at wider spatial scales: coastal processes, land-use change and air quality. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 3210-3224.	1.8	27
100	Application of satellite observations for timely updates to global anthropogenic NO_xemission inventories. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	234
101	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
102	Retrievals of sulfur dioxide from the Global Ozone Monitoring Experiment 2 (GOME-2) using an optimal estimation approach: Algorithm and initial validation. Journal of Geophysical Research, 2011, 116, .	3.3	74
103	Can a â€œstate of the artâ€•chemistry transport model simulate Amazonian tropospheric chemistry?. Journal of Geophysical Research, 2011, 116, .	3.3	47
104	From Radiation Fields to Atmospheric Concentrations â€“ Retrieval of Geophysical Parameters. , 2011, , 99-127.		3
105	Global satellite analysis of the relation between aerosols and short-lived trace gases. Atmospheric Chemistry and Physics, 2011, 11, 1255-1267.	1.9	65
106	The unique OMI HCHO/NO2 feature during the 2008 Beijing Olympics: Implications for ozone production sensitivity. Atmospheric Environment, 2011, 45, 3103-3111.	1.9	50
107	Ozone air quality measurement requirements for a geostationary satellite mission. Atmospheric Environment, 2011, 45, 7143-7150.	1.9	61
108	Evaluating AURA/OMI ozone profiles using ozonesonde data and EPA surface measurements for August 2006. Atmospheric Environment, 2011, 45, 5523-5530.	1.9	18

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109	Multi-spectral sensitivity studies for the retrieval of tropospheric and lowermost tropospheric ozone from simulated clear-sky GEO-CAPE measurements. Atmospheric Environment, 2011, 45, 7151-7165.	1.9	59
110	Revised ultraviolet absorption cross sections of H2CO for the HITRAN database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1509-1510.	1.1	37
111	An Airborne Spectrometer and Retrieval Development Project for Air Quality Measurements. , 2011, , .		0
112	A geostationary thermal infrared sensor to monitor the lowermost troposphere: O₃ and CO retrieval studies. Atmospheric Measurement Techniques, 2011, 4, 297-317.	1.2	22
113	Tropospheric ozone column retrieval at northern mid-latitudes from the Ozone Monitoring Instrument by means of a neural network algorithm. Atmospheric Measurement Techniques, 2011, 4, 2375-2388.	1.2	38
114	Validation of Ozone Monitoring Instrument (OMI) ozone profiles and stratospheric ozone columns with Microwave Limb Sounder (MLS) measurements. Atmospheric Chemistry and Physics, 2010, 10, 2539-2549.	1.9	77
115	Ozone profile retrievals from the Ozone Monitoring Instrument. Atmospheric Chemistry and Physics, 2010, 10, 2521-2537.	1.9	250
116	Estimating European volatile organic compound emissions using satellite observations of formaldehyde from the Ozone Monitoring Instrument. Atmospheric Chemistry and Physics, 2010, 10, 11501-11517.	1.9	94
117	Intercomparison methods for satellite measurements of atmospheric composition: application to tropospheric ozone from TES and OMI. Atmospheric Chemistry and Physics, 2010, 10, 4725-4739.	1.9	106
118	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.	1.1	346
119	Dynamic formation of extreme ozone minimum events over the Tibetan Plateau during northern winters 1987â€“2001. Journal of Geophysical Research, 2010, 115, .	3.3	16
120	A new interpretation of total column BrO during Arctic spring. Geophysical Research Letters, 2010, 37, .	1.5	116
121	The HITRAN 2008 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 533-572.	1.1	3,129
122	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
123	Tibetan middle tropospheric ozone minimum in June discovered from GOME observations. Geophysical Research Letters, 2009, 36, .	1.5	34
124	Long-term tropospheric formaldehyde concentrations deduced from ground-based fourier transform solar infrared measurements. Atmospheric Chemistry and Physics, 2009, 9, 7131-7142.	1.9	49
125	The GEISA spectroscopic database: Current and future archive for Earth and planetary atmosphere studies. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 1043-1059.	1.1	161
126	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

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127	Improved algorithm for MODIS satellite retrievals of aerosol optical depths over western North America. Journal of Geophysical Research, 2008, 113, .	3.3	77
128	Springtime transitions of NO₂, CO, and O₃ over North America: Model evaluation and analysis. Journal of Geophysical Research, 2008, 113, .	3.3	56
129	Net ecosystem fluxes of isoprene over tropical South America inferred from Global Ozone Monitoring Experiment (GOME) observations of HCHO columns. Journal of Geophysical Research, 2008, 113, .	3.3	99
130	Remote Sensing of Tropospheric Pollution from Space. Bulletin of the American Meteorological Society, 2008, 89, 805-822.	1.7	108
131	Spatiotemporal Variation in Tropospheric Column Ozone over East Asia Observed by GOME and Ozonesondes. Scientific Online Letters on the Atmosphere, 2008, 4, 117-120.	0.6	10
132	Improved tropospheric ozone profile retrievals using OMI and TES radiances. Geophysical Research Letters, 2007, 34, .	1.5	85
133	Interpreting satellite column observations of formaldehyde over tropical South America. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 1741-1751.	1.6	21
134	Improved ozone profile retrievals from GOME data with degradation correction in reflectance. Atmospheric Chemistry and Physics, 2007, 7, 1575-1583.	1.9	28
135	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.	1.9	53
136	Remote sensed and in situ constraints on processes affecting tropical tropospheric ozone. Atmospheric Chemistry and Physics, 2007, 7, 815-838.	1.9	156
137	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
138	First observations of iodine oxide from space. Geophysical Research Letters, 2007, 34, .	1.5	83
139	An ozone depletion event in the sub-arctic surface layer over Hudson Bay, Canada. Journal of Atmospheric Chemistry, 2007, 57, 255-280.	1.4	13
140	Global Monitoring of Tropospheric Pollution from Geostationary Orbit. , 2007, , .		0
141	Validation and Comparison of Tropospheric Column Ozone Derived from GOME Measurements with Ozonesondes over Japan. Scientific Online Letters on the Atmosphere, 2007, 3, 41-44.	0.6	3
142	Latitudinal and vertical distribution of bromine monoxide in the lower stratosphere from Scanning Imaging Absorption Spectrometer for Atmospheric Chartography limb scattering measurements. Journal of Geophysical Research, 2006, 111, .	3.3	70
143	First directly retrieved global distribution of tropospheric column ozone from GOME: Comparison with the GEOS-CHEM model. Journal of Geophysical Research, 2006, 111, .	3.3	61
144	Evaluation of space-based constraints on global nitrogen oxide emissions with regional aircraft measurements over and downwind of eastern North America. Journal of Geophysical Research, 2006, 111, .	3.3	181

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145	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
146	Halogen-driven low-altitude O3and hydrocarbon losses in spring at northern high latitudes. Journal of Geophysical Research, 2006, 111, .	3.3	40
147	Intercomparison of GOME, ozonesonde, and SAGE II measurements of ozone: Demonstration of the need to homogenize available ozonesonde data sets. Journal of Geophysical Research, 2006, 111, .	3.3	31
148	Evaluation of Global Ozone Monitoring Experiment (GOME) ozone profiles from nine different algorithms. Journal of Geophysical Research, 2006, 111, .	3.3	38
149	Correction to â€œFirst directly retrieved global distribution of tropospheric column ozone from GOME: Comparison with the GEOS-CHEM modelâ€• Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	33
150	Tropospheric ozone profiles from a ground-based ultraviolet spectrometer: a new retrieval method. Applied Optics, 2006, 45, 2352.	2.1	6
151	SCIAMACHY Level 1 data: calibration concept and in-flight calibration. Atmospheric Chemistry and Physics, 2006, 6, 5347-5367.	1.9	57
152	Spectroscopic Measurements of Tropospheric Composition from Satellite Measurements in the Ultraviolet and Visible: Steps Toward Continuous Pollution Monitoring from Space. , 2006, , 1-25.		10
153	The HITRAN 2004 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 96, 139-204.	1.1	2,601
154	Ultraviolet and visible spectroscopy and spaceborne remote sensing of the Earth's atmosphere. Comptes Rendus Physique, 2005, 6, 836-847.	0.3	12
155	Global partitioning of NOx sources using satellite observations: Relative roles of fossil fuel combustion, biomass burning and soil emissions. Faraday Discussions, 2005, 130, 407.	1.6	392
156	Undersampling correction for array detector-based satellite spectrometers. Applied Optics, 2005, 44, 1296.	2.1	71
157	Mapping tropospheric ozone profiles from an airborne ultraviolet-visible spectrometer. Applied Optics, 2005, 44, 3312.	2.1	12
158	Evidence of lightning NOxand convective transport of pollutants in satellite observations over North America. Geophysical Research Letters, 2005, 32, .	1.5	95
159	Sensitivity of ozone to bromine in the lower stratosphere. Geophysical Research Letters, 2005, 32, .	1.5	207
160	Constraining global isoprene emissions with Global Ozone Monitoring Experiment (GOME) formaldehyde column measurements. Journal of Geophysical Research, 2005, 110, .	3.3	140
161	Ozone profile and tropospheric ozone retrievals from the Global Ozone Monitoring Experiment: Algorithm description and validation. Journal of Geophysical Research, 2005, 110, .	3.3	171
162	Determination of Density at High Altitudes Using Rayleigh and Raman Scattering of Solar Radiation. , 2005, , .		0

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