

Joanna Joiner

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173
papers

12,919
citations

51
h-index

112
g-index

213
ext. papers

15,012
ext. citations

6.6
avg, IF

6.22
L-index

#	Paper	IF	Citations
173	MERRA: NASA's Modern-Era Retrospective Analysis for Research and Applications. <i>Journal of Climate</i> , 2011 , 24, 3624-3648	4.4	3548
172	Global and time-resolved monitoring of crop photosynthesis with chlorophyll fluorescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E1327-33	11.5	577
171	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
170	First observations of global and seasonal terrestrial chlorophyll fluorescence from space. <i>Biogeosciences</i> , 2011 , 8, 637-651	4.6	385
169	Global monitoring of terrestrial chlorophyll fluorescence from moderate-spectral-resolution near-infrared satellite measurements: methodology, simulations, and application to GOME-2. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 2803-2823	4	378
168	Solar-induced chlorophyll fluorescence that correlates with canopy photosynthesis on diurnal and seasonal scales in a temperate deciduous forest. <i>Geophysical Research Letters</i> , 2015 , 42, 2977-2987	4.9	303
167	Prospects for chlorophyll fluorescence remote sensing from the Orbiting Carbon Observatory-2. <i>Remote Sensing of Environment</i> , 2014 , 147, 1-12	13.2	274
166	Photosynthetic seasonality of global tropical forests constrained by hydroclimate. <i>Nature Geoscience</i> , 2015 , 8, 284-289	18.3	251
165	The seasonal cycle of satellite chlorophyll fluorescence observations and its relationship to vegetation phenology and ecosystem atmosphere carbon exchange. <i>Remote Sensing of Environment</i> , 2014 , 152, 375-391	13.2	231
164	Estimation of vegetation photosynthetic capacity from space-based measurements of chlorophyll fluorescence for terrestrial biosphere models. <i>Global Change Biology</i> , 2014 , 20, 3727-42	11.4	208
163	Overview of Solar-Induced chlorophyll Fluorescence (SIF) from the Orbiting Carbon Observatory-2: Retrieval, cross-mission comparison, and global monitoring for GPP. <i>Remote Sensing of Environment</i> , 2018 , 209, 808-823	13.2	199
162	Remote sensing of solar-induced chlorophyll fluorescence (SIF) in vegetation: 50 years of progress. <i>Remote Sensing of Environment</i> , 2019 , 231, 111177-111177	13.2	190
161	India Is Overtaking China as the World's Largest Emitter of Anthropogenic Sulfur Dioxide. <i>Scientific Reports</i> , 2017 , 7, 14304	4.9	182
160	Improving the monitoring of crop productivity using spaceborne solar-induced fluorescence. <i>Global Change Biology</i> , 2016 , 22, 716-26	11.4	180
159	Tropospheric Emissions: Monitoring of Pollution (TEMPO). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 186, 17-39	2.1	163
158	The Ozone Monitoring Instrument: overview of 14 years in space. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 5699-5745	6.8	163
157	Global retrievals of solar induced chlorophyll fluorescence with TROPOMI: first results and inter-sensor comparison to OCO-2. <i>Geophysical Research Letters</i> , 2018 , 45, 10456-10463	4.9	160

156	A linear method for the retrieval of sun-induced chlorophyll fluorescence from GOME-2 and SCIAMACHY data. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 2589-2608	4	158
155	Drought onset mechanisms revealed by satellite solar-induced chlorophyll fluorescence: Insights from two contrasting extreme events. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015 , 120, 2427-2440	7.7	155
154	Improving Global Analysis and Forecasting with AIRS. <i>Bulletin of the American Meteorological Society</i> , 2006 , 87, 891-895	6.1	153
153	A global catalogue of large SO ₂ sources and emissions derived from the Ozone Monitoring Instrument. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 11497-11519	6.8	148
152	New methods for the retrieval of chlorophyll red fluorescence from hyperspectral satellite instruments: simulations and application to GOME-2 and SCIAMACHY. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 3939-3967	4	146
151	The 2010 Russian drought impact on satellite measurements of solar-induced chlorophyll fluorescence: Insights from modeling and comparisons with parameters derived from satellite reflectances. <i>Remote Sensing of Environment</i> , 2015 , 166, 163-177	13.2	142
150	A fast and sensitive new satellite SO ₂ retrieval algorithm based on principal component analysis: Application to the ozone monitoring instrument. <i>Geophysical Research Letters</i> , 2013 , 40, 6314-6318	4.9	142
149	Consistency between sun-induced chlorophyll fluorescence and gross primary production of vegetation in North America. <i>Remote Sensing of Environment</i> , 2016 , 183, 154-169	13.2	139
148	Abrupt decline in tropospheric nitrogen dioxide over China after the outbreak of COVID-19. <i>Science Advances</i> , 2020 , 6, eabc2992	14.3	132
147	Potential of the TROPOspheric Monitoring Instrument (TROPOMI) onboard the Sentinel-5 Precursor for the monitoring of terrestrial chlorophyll fluorescence. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 1337-1352	4	123
146	Filling-in of near-infrared solar lines by terrestrial fluorescence and other geophysical effects: simulations and space-based observations from SCIAMACHY and GOSAT. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 809-829	4	123
145	Space-based detection of missing sulfur dioxide sources of global air pollution. <i>Nature Geoscience</i> , 2016 , 9, 496-500	18.3	105
144	Using field spectroscopy to assess the potential of statistical approaches for the retrieval of sun-induced chlorophyll fluorescence from ground and space. <i>Remote Sensing of Environment</i> , 2013 , 133, 52-61	13.2	103
143	Application of satellite solar-induced chlorophyll fluorescence to understanding large-scale variations in vegetation phenology and function over northern high latitude forests. <i>Remote Sensing of Environment</i> , 2017 , 190, 178-187	13.2	100
142	Rotational Raman scattering (Ring effect) in satellite backscatter ultraviolet measurements. <i>Applied Optics</i> , 1995 , 34, 4513-25	1.7	97
141	A global spatially contiguous solar-induced fluorescence (CSIF) dataset using neural networks. <i>Biogeosciences</i> , 2018 , 15, 5779-5800	4.6	95
140	Radiance and Jacobian intercomparison of radiative transfer models applied to HIRS and AMSU channels. <i>Journal of Geophysical Research</i> , 2001 , 106, 24017-24031		90
139	Three-way comparison between OMI and PARASOL cloud pressure products. <i>Journal of Geophysical Research</i> , 2008 , 113,		88

138	The impact of alternative trait-scaling hypotheses for the maximum photosynthetic carboxylation rate (V) on global gross primary production. <i>New Phytologist</i> , 2017 , 215, 1370-1386	9.8	82
137	Evaluation of the OMI cloud pressures derived from rotational Raman scattering by comparisons with other satellite data and radiative transfer simulations. <i>Journal of Geophysical Research</i> , 2008 , 113,		81
136	First results from the OMI rotational Raman scattering cloud pressure algorithm. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006 , 44, 1272-1282	8.1	77
135	On the relationship between sub-daily instantaneous and daily total gross primary production: Implications for interpreting satellite-based SIF retrievals. <i>Remote Sensing of Environment</i> , 2018 , 205, 276-289	13.2	68
134	Estimation of Terrestrial Global Gross Primary Production (GPP) with Satellite Data-Driven Models and Eddy Covariance Flux Data. <i>Remote Sensing</i> , 2018 , 10, 1346	5	67
133	Angular normalization of GOME-2 Sun-induced chlorophyll fluorescence observation as a better proxy of vegetation productivity. <i>Geophysical Research Letters</i> , 2017 , 44, 5691-5699	4.9	62
132	New data-driven estimation of terrestrial CO ₂ fluxes in Asia using a standardized database of eddy covariance measurements, remote sensing data, and support vector regression. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 767-795	3.7	58
131	The determination of cloud pressures from rotational Raman scattering in satellite backscatter ultraviolet measurements. <i>Journal of Geophysical Research</i> , 1995 , 100, 23019		58
130	Drought rapidly diminishes the large net CO uptake in 2011 over semi-arid Australia. <i>Scientific Reports</i> , 2016 , 6, 37747	4.9	58
129	New-generation NASA Aura Ozone Monitoring Instrument (OMI) volcanic SO ₂ dataset: algorithm description, initial results, and continuation with the Suomi-NPP Ozone Mapping and Profiler Suite (OMPS). <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 1415-1450	4	55
128	Using satellite observations of tropospheric NO ₂ columns to infer long-term trends in US NO _x emissions: The importance of accounting for the free tropospheric NO ₂ background. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 8863-8878	6.8	55
127	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	6.8	55
126	Reduced solar-induced chlorophyll fluorescence from GOME-2 during Amazon drought caused by dataset artifacts. <i>Global Change Biology</i> , 2018 , 24, 2229-2230	11.4	54
125	Assimilation of SSM/I-Derived Surface Rainfall and Total Precipitable Water for Improving the GEOS Analysis for Climate Studies. <i>Monthly Weather Review</i> , 2000 , 128, 509-537	2.4	54
124	Global relationships among traditional reflectance vegetation indices (NDVI and NDII), evapotranspiration (ET), and soil moisture variability on weekly timescales. <i>Remote Sensing of Environment</i> , 2018 , 219, 339-352	13.2	53
123	Spatially-explicit monitoring of crop photosynthetic capacity through the use of space-based chlorophyll fluorescence data. <i>Remote Sensing of Environment</i> , 2018 , 210, 362-374	13.2	52
122	Radiative Forcing of Saharan Dust: GOCART Model Simulations Compared with ERBE Data. <i>Journals of the Atmospheric Sciences</i> , 2002 , 59, 736-747	2.1	51
121	Angle matters: Bidirectional effects impact the slope of relationship between gross primary productivity and sun-induced chlorophyll fluorescence from Orbiting Carbon Observatory-2 across biomes. <i>Global Change Biology</i> , 2018 , 24, 5017-5020	11.4	49

120	1DVAR analysis of temperature and humidity using GPS radio occultation refractivity data. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 14-1		49
119	Retrieval of cloud pressure and oceanic chlorophyll content using Raman scattering in GOME ultraviolet spectra. <i>Journal of Geophysical Research</i> , 2004 , 109,		48
118	Tundra photosynthesis captured by satellite-observed solar-induced chlorophyll fluorescence. <i>Geophysical Research Letters</i> , 2017 , 44, 1564-1573	4.9	47
117	Reduction of structural impacts and distinction of photosynthetic pathways in a global estimation of GPP from space-borne solar-induced chlorophyll fluorescence. <i>Remote Sensing of Environment</i> , 2020 , 240, 111722	13.2	47
116	A new global anthropogenic SO ₂ emission inventory for the last decade: a mosaic of satellite-derived and bottom-up emissions. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 16571-16586	6.8	45
115	Detection of multi-layer and vertically-extended clouds using A-train sensors. <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 233-247	4	44
114	Precipitation and carbon-water coupling jointly control the interannual variability of global land gross primary production. <i>Scientific Reports</i> , 2016 , 6, 39748	4.9	44
113	Global monitoring of terrestrial chlorophyll fluorescence from moderate spectral resolution near-infrared satellite measurements: methodology, simulations, and application to GOME-2 2013 ,		43
112	Widespread increase of boreal summer dry season length over the Congo rainforest. <i>Nature Climate Change</i> , 2019 , 9, 617-622	21.4	42
111	Ocean Raman scattering in satellite backscatter UV measurements. <i>Geophysical Research Letters</i> , 2002 , 29, 18-1-18-4	4.9	41
110	Ozone mixing ratios inside tropical deep convective clouds from OMI satellite measurements. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 573-583	6.8	40
109	Efficient methods to assimilate remotely sensed data based on information content. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1998 , 124, 1669-1694	6.4	39
108	Regional atmospheric CO ₂ inversion reveals seasonal and geographic differences in Amazon net biome exchange. <i>Global Change Biology</i> , 2016 , 22, 3427-43	11.4	39
107	Multi-source SO ₂ emission retrievals and consistency of satellite and surface measurements with reported emissions. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 12597-12616	6.8	37
106	Continuation of long-term global SO ₂ pollution monitoring from OMI to OMPS. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 1495-1509	4	36
105	Fast simulators for satellite cloud optical centroid pressure retrievals; evaluation of OMI cloud retrievals. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 529-545	4	36
104	Diverse photosynthetic capacity of global ecosystems mapped by satellite chlorophyll fluorescence measurements. <i>Remote Sensing of Environment</i> , 2019 , 232, 111344-111344	13.2	33
103	Impact of tropospheric nitrogen dioxide on the regional radiation budget. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 6389-6400	6.8	33

102	Accurate satellite-derived estimates of the tropospheric ozone impact on the global radiation budget. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 4447-4465	6.8	32
101	Spaceborne Sun-Induced Vegetation Fluorescence Time Series from 2007 to 2015 Evaluated with Australian Flux Tower Measurements. <i>Remote Sensing</i> , 2016 , 8, 895	5	32
100	Accounting for the effects of surface BRDF on satellite cloud and trace-gas retrievals: a new approach based on geometry-dependent Lambertian equivalent reflectivity applied to OMI algorithms. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 333-349	4	30
99	Convective distribution of tropospheric ozone and tracers in the Central American ITCZ region: Evidence from observations during TC4. <i>Journal of Geophysical Research</i> , 2010 , 115,		30
98	Ozone Monitoring Instrument (OMI) Aura nitrogen dioxide standard product version 4.0 with improved surface and cloud treatments. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 455-479	4	27
97	Effects of horizontal gradients on GPS radio occultation observation operators. I: Ray tracing. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2004 , 130, 2787-2805	6.4	26
96	Towards a Harmonized Long-Term Spaceborne Record of Far-Red Solar-Induced Fluorescence. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 2518-2539	3.7	25
95	Note on rotational-Raman scattering in the O ₂ A- and B-bands. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 981-990	4	25
94	Variational cloud-clearing with TOVS data. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2000 , 126, 725-748	6.4	25
93	Temporal and spatial variations in upper atmospheric Mg ⁺ . <i>Journal of Geophysical Research</i> , 1996 , 101, 5239-5249		25
92	First estimates of global free-tropospheric NO ₂ abundances derived using a cloud-slicing technique applied to satellite observations from the Aura Ozone Monitoring Instrument (OMI). <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 10565-10588	6.8	23
91	A new method for global retrievals of HCHO total columns from the Suomi National Polar-orbiting Partnership Ozone Mapping and Profiler Suite. <i>Geophysical Research Letters</i> , 2015 , 42, 2515-2522	4.9	23
90	Combining livestock production information in a process-based vegetation model to reconstruct the history of grassland management. <i>Biogeosciences</i> , 2016 , 13, 3757-3776	4.6	23
89	Surface reflectivity from the Ozone Monitoring Instrument using the Moderate Resolution Imaging Spectroradiometer to eliminate clouds: Effects of snow on ultraviolet and visible trace gas retrievals. <i>Journal of Geophysical Research</i> , 2010 , 115,		21
88	Improving total column ozone retrievals by using cloud pressures derived from Raman scattering in the UV. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	21
87	High sensitivity of gross primary production in the Rocky Mountains to summer rain. <i>Geophysical Research Letters</i> , 2017 , 44, 3643-3652	4.9	19
86	Modeling of Jupiter's millimeter wave emission utilizing laboratory measurements of ammonia (NH ₃) opacity. <i>Journal of Geophysical Research</i> , 1991 , 96, 17463		19
85	Aura OMI observations of regional SO ₂ and NO ₂ pollution changes from 2005 to 2014		19

84	Temporal consistency between gross primary production and solar-induced chlorophyll fluorescence in the ten most populous megacity areas over years. <i>Scientific Reports</i> , 2017 , 7, 14963	4.9	18
83	Global Retrievals of Solar-Induced Chlorophyll Fluorescence at Red Wavelengths With TROPOMI. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087541	4.9	18
82	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-5 Data Assimilation System. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 6954-6983	4.4	17
81	What do satellite backscatter ultraviolet and visible spectrometers see over snow and ice? A study of clouds and ozone using the A-train. <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 619-629	4	16
80	Observations over hurricanes from the ozone monitoring instrument. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	15
79	Nitrogen oxides in the global upper troposphere: interpreting cloud-sliced NO ₂ observations from the OMI satellite instrument. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 17017-17027	6.8	15
78	Assessment of NO observations during DISCOVER-AQ and KORUS-AQ field campaigns. <i>Atmospheric Measurement Techniques</i> , 2020 , 13,	4	14
77	Version 2 Ozone Monitoring Instrument SO ₂ product (OMSO2 V2): new anthropogenic SO ₂ vertical column density dataset. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 6175-6191	4	14
76	Evaluating GPP and Respiration Estimates Over Northern Midlatitude Ecosystems Using Solar-Induced Fluorescence and Atmospheric CO ₂ Measurements. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 2976-2997	3.7	14
75	Cloud Products from the Earth Polychromatic Imaging Camera (EPIC): Algorithms and Initial Evaluation. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 2019-2031	4	13
74	NOAA/IASA/DoD Workshop on Satellite Data Assimilation. <i>Bulletin of the American Meteorological Society</i> , 2000 , 81, 2457-2462	6.1	13
73	A cloud algorithm based on the O ₂ -O ₂ ; 477 nm absorption band featuring an advanced spectral fitting method and the use of surface geometry-dependent Lambertian-equivalent reflectivity. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 1103-1107	4	13
72	Mineral aerosol contamination of TIROS Operational Vertical Sounder (TOVS) temperature and moisture retrievals. <i>Journal of Geophysical Research</i> , 2003 , 108,		12
71	Radiative transfer in the 9.6 μ m HIRS ozone channel using collocated SBUV-determined ozone abundances. <i>Journal of Geophysical Research</i> , 1998 , 103, 19213-19229		12
70	Systematic Orbital Geometry-Dependent Variations in Satellite Solar-Induced Fluorescence (SIF) Retrievals. <i>Remote Sensing</i> , 2020 , 12, 2346	5	12
69	A linear method for the retrieval of sun-induced chlorophyll fluorescence from GOME-2 and SCIAMACHY data 2014 ,		11
68	Reply to Magnani et al.: Linking large-scale chlorophyll fluorescence observations with cropland gross primary production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2511	11.5	11
67	An error analysis of radiance and suboptimal retrieval assimilation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2000 , 126, 1495-1514	6.4	11

66	Satellite-based reflectances capture large fraction of variability in global gross primary production (GPP) at weekly time scales. <i>Agricultural and Forest Meteorology</i> , 2020 , 291, 108092	5.8	10
65	Filling-in of far-red and near-Infrared solar lines by terrestrial and atmospheric effects: simulations and space-based observations from SCIAMACHY and GOSAT 2012 ,		10
64	High-Frequency Planetary Waves in the Polar Middle Atmosphere as Seen in a Data Assimilation System. <i>Journals of the Atmospheric Sciences</i> , 2003 , 60, 2975-2992	2.1	10
63	Top-of-the-atmosphere shortwave flux estimation from satellite observations: an empirical neural network approach applied with data from the A-train constellation. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 2813-2826	4	10
62	Carbon Monitoring System Flux Net Biosphere Exchange 2020 (CMS-Flux NBE 2020). <i>Earth System Science Data</i> , 2021 , 13, 299-330	10.5	10
61	Differences Between OCO-2 and GOME-2 SIF Products From a Model-Data Fusion Perspective. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 3143-3157	3.7	9
60	A geometry-dependent surface Lambertian-equivalent reflectivity product for UV _{vis} retrievals □ Part 1: Evaluation over land surfaces using measurements from OMI at 466 nm. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 3997-4017	4	9
59	Accurate determination of total ozone using SBUV continuous spectral scan measurements. <i>Journal of Geophysical Research</i> , 1997 , 102, 12957-12969		9
58	Introduction to special section on Aura Validation. <i>Journal of Geophysical Research</i> , 2008 , 113,		9
57	Assimilating TOVS Humidity into the GEOS-2 Data Assimilation System. <i>Journal of Climate</i> , 1999 , 12, 2983-2995	4.4	9
56	Laboratory measurements of the 7.59-38-mm absorption of gaseous ammonia (NH ₃) under simulated jovian conditions. <i>Icarus</i> , 1989 , 81, 386-395	3.8	9
55	The TROPISIF global sun-induced fluorescence dataset from the Sentinel-5P TROPOMI mission. <i>Earth System Science Data</i> , 2021 , 13, 5423-5440	10.5	9
54	Assimilation Experiments of One-dimensional Variational Analyses with GPS/MET Refractivity 2003 , 515-520		9
53	Modulation of Land Photosynthesis by the Indian Ocean Dipole: Satellite-Based Observations and CMIP6 Future Projections. <i>Earth's Future</i> , 2021 , 9, e2020EF001942	7.9	9
52	Effects of data selection and error specification on the assimilation of AIRS data. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007 , 133, 181-196	6.4	8
51	Detection of cloud-affected AIRS channels using an adjacent-pixel approach. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2004 , 130, 1469-1487	6.4	8
50	TEMPO Green Paper: Chemistry, physics, and meteorology experiments with the Tropospheric Emissions: monitoring of pollution instrument 2019 ,		8
49	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

48	The Mars Atmospheric Constellation Observatory (MACO) Concept 2004 , 393-405		8
47	Evaluation of CHAMP radio occultation refractivity using data assimilation office analyses and radiosondes. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	7
46	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1992 , 40, 1101-1109	4.1	7
45	New methods for retrieval of chlorophyll red fluorescence from hyper-spectral satellite instruments: simulations and application to GOME-2 and SCIAMACHY		7
44	High-resolution mapping of SO ₂ using airborne observations from the GeoTASO instrument during the KORUS-AQ field study: PCA-based vertical column retrievals. <i>Remote Sensing of Environment</i> , 2020 , 241, 111725	13.2	6
43	OMI/Aura Nitrogen Dioxide Standard Product with Improved Surface and Cloud Treatments		6
42	Contrasting Regional Carbon Cycle Responses to Seasonal Climate Anomalies Across the East-West Divide of Temperate North America. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2020GB006598	5.9	6
41	A Cloud-Ozone Data Product from Aura OMI and MLS Satellite Measurements. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 4067-4078	4	5
40	First results from a rotational Raman scattering cloud algorithm applied to the Suomi National Polar-orbiting Partnership (NPP) Ozone Mapping and Profiler Suite (OMPS) Nadir Mapper. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 2897-2906	4	5
39	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
38	Note on the effect of horizontal gradients for nadir-viewing microwave and infrared sounders. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2005 , 131, 1783-1792	6.4	5
37	The Carbon Cycle of Southeast Australia During 2019-2020: Drought, Fires, and Subsequent Recovery. <i>AGU Advances</i> , 2021 , 2,	5.4	5
36	An error analysis of radiance and suboptimal retrieval assimilation 2000 , 126, 1495		5
35	New observations of NO ₂ in the upper troposphere from TROPOMI. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 2389-2408	4	5
34	A global catalogue of large SO ₂ sources and emissions derived from the Ozone Monitoring Instrument 2016 ,		5
33	A geometry-dependent surface Lambertian-equivalent reflectivity product for UV _A retrievals Part 2: Evaluation over open ocean. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 6749-6769	4	5
32	Potential of the Tropospheric Monitoring Instrument (TROPOMI) onboard the Sentinel-5 Precursor for the monitoring of terrestrial chlorophyll fluorescence 2014 ,		4
31	Reanalysis of historical observations and its role in the development of the goddard EOS climate Data Assimilation System. <i>Advances in Space Research</i> , 1997 , 19, 491-501	2.4	4

30	Tracking aerosols and SO ₂ ; clouds from the Raikoke eruption: 3D view from satellite observations	4
29	Tracking aerosols and SO ₂ ; clouds from the Raikoke eruption: 3D view from satellite observations. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 7545-7563	4
28	Fast simulators for satellite cloud optical centroid pressure retrievals, 1. evaluation of OMI cloud retrievals 2011 ,	3
27	Tangent linear analysis of the Mosaic land surface model. <i>Journal of Geophysical Research</i> , 2003 , 108,	3
26	New-generation NASA Aura Ozone Monitoring Instrument (OMI) volcanic SO ₂ ; dataset: Algorithm description, initial results, and continuation with the Suomi-NPP Ozone Mapping and Profiler Suite (OMPS)	3
25	Continuation of long-term global SO ₂ ; pollution monitoring from OMI to OMPS	3
24	Assessment of NO ₂ ; observations during DISCOVER-AQ and KORUS-AQ field campaigns;	3
23	A global spatially Continuous Solar Induced Fluorescence (CSIF) dataset using neural networks	3
22	Can we retrieve vegetation photosynthetic capacity parameter from solar-induced fluorescence? 2016 ,	3
21	Spatial pattern and seasonal dynamics of the photosynthesis activity across Australian rainfed croplands. <i>Ecological Indicators</i> , 2020 , 108, 105669	5.8 3
20	The Ozone Monitoring Instrument: Overview of twelve years in space 2017 ,	2
19	Note on rotational-Raman scattering in the O ₂ ; A- and B-bands: implications for retrieval of trace-gas concentrations and terrestrial chlorophyll fluorescence 2012 ,	2
18	Global free tropospheric NO ₂ ; abundances derived using a cloud slicing technique applied to satellite observations from the Aura Ozone Monitoring Instrument (OMI)	2
17	Accurate satellite-derived estimates of the tropospheric ozone impact on the global radiation budget	2
16	Accounting for the effects of surface BRDF on satellite cloud and trace-gas retrievals: A new approach based on geometry-dependent Lambertian-equivalent reflectivity applied to OMI algorithms	2
15	Explicit and consistent aerosol correction for visible wavelength satellite cloud and nitrogen dioxide retrievals based on optical properties from a global aerosol analysis	2
14	Errors induced by ozone field horizontal inhomogeneities into simulated nadir-viewing orbital backscatter UV measurements. <i>Journal of Geophysical Research</i> , 2007 , 112,	1
13	Analysis of satellite-derived Arctic tropospheric BrO columns in conjunction with aircraft measurements during ARCTAS and ARCPAC	1

12	Ozone mixing ratios inside tropical deep convective clouds from OMI satellite measurements		1
11	Impact of tropospheric nitrogen dioxide on the regional radiation budget		1
10	First results from a rotational Raman scattering cloud algorithm applied to the Suomi National Polar-orbiting Partnership (NPP) Ozone Mapping Profiler Spectrometer (OMPS) nadir mapper		1
9	Detection of anomalies in the UV _a is reflectances from the Ozone Monitoring Instrument. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 961-974	4	1
8	Use of Hyper-Spectral Visible and Near-Infrared Satellite Data for Timely Estimates of the Earth's Surface Reflectance in Cloudy Conditions: Part 2- Image Restoration With HICO Satellite Data in Overcast Conditions. <i>Frontiers in Remote Sensing</i> , 2021 , 2,	1	1
7	Skillful Seasonal Forecasts of Land Carbon Uptake in Northern Mid- and High Latitudes. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	1
6	Using Machine Learning for Timely Estimates of Ocean Color Information From Hyperspectral Satellite Measurements in the Presence of Clouds, Aerosols, and Sun glint. <i>Frontiers in Remote Sensing</i> , 2022 , 3,	1	1
5	A new method for inferring city emissions and lifetimes of nitrogen oxides from high-resolution nitrogen dioxide observations: a model study. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 1333-1349	6.8	0
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3	Evaluation of Refractivity Profiles from CHAMP and SAC-C GPS Radio Occultation 2004 , 375-382		
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