

Joanna Joiner

List of Publications by Year in Descending Order

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

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 | 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 |
| 172 | Skillful Seasonal Forecasts of Land Carbon Uptake in Northern Mid- and High Latitudes. <i>Geophysical Research Letters</i> , 2022 , 49, | 4.9 | 1 |
| 171 | Using Machine Learning for Timely Estimates of Ocean Color Information From Hyperspectral Satellite Measurements in the Presence of Clouds, Aerosols, and Sunlight. <i>Frontiers in Remote Sensing</i> , 2022 , 3, | 1 | 1 |
| 170 | Estimates of Hyperspectral Surface and Underwater UV Planar and Scalar Irradiances from OMI Measurements and Radiative Transfer Computations. <i>Remote Sensing</i> , 2022 , 14, 2278 | 5 | |
| 169 | The Carbon Cycle of Southeast Australia During 2019–2020: Drought, Fires, and Subsequent Recovery. <i>AGU Advances</i> , 2021 , 2, | 5.4 | 5 |
| 168 | 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 |
| 167 | New observations of NO ₂ in the upper troposphere from TROPOMI. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 2389-2408 | 4 | 5 |
| 166 | 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 |
| 165 | Explicit and consistent aerosol correction for visible wavelength satellite cloud and nitrogen dioxide retrievals based on optical properties from a global aerosol analysis. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 2857-2871 | 4 | |
| 164 | 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 |
| 163 | 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 |
| 162 | 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 |
| 161 | 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 |
| 160 | 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 | 4 |
| 159 | Abrupt decline in tropospheric nitrogen dioxide over China after the outbreak of COVID-19. <i>Science Advances</i> , 2020 , 6, eabc2992 | 14.3 | 132 |
| 158 | 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 |
| 157 | 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 |

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| 156 | Assessment of NO observations during DISCOVER-AQ and KORUS-AQ field campaigns. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, | 4 | 14 |
| 155 | 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 |
| 154 | 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 |
| 153 | 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 |
| 152 | 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 |
| 151 | Global Retrievals of Solar-Induced Chlorophyll Fluorescence at Red Wavelengths With TROPOMI. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087541 | 4.9 | 18 |
| 150 | Systematic Orbital Geometry-Dependent Variations in Satellite Solar-Induced Fluorescence (SIF) Retrievals. <i>Remote Sensing</i> , 2020 , 12, 2346 | 5 | 12 |
| 149 | Spatial pattern and seasonal dynamics of the photosynthesis activity across Australian rainfed croplands. <i>Ecological Indicators</i> , 2020 , 108, 105669 | 5.8 | 3 |
| 148 | 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 |
| 147 | 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 |
| 146 | Cloud Products from the Earth Polychromatic Imaging Camera (EPIC): Algorithms and Initial Evaluation. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 2019-2031 | 4 | 13 |
| 145 | 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 |
| 144 | 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 |
| 143 | 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 |
| 142 | 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 |
| 141 | Widespread increase of boreal summer dry season length over the Congo rainforest. <i>Nature Climate Change</i> , 2019 , 9, 617-622 | 21.4 | 42 |
| 140 | TEMPO Green Paper: Chemistry, physics, and meteorology experiments with the Tropospheric Emissions: monitoring of pollution instrument 2019 , | | 8 |
| 139 | A geometry-dependent surface Lambertian-equivalent reflectivity product for UV _{vis} retrievals □ Part 2: Evaluation over open ocean. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 6749-6769 | 4 | 5 |

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| 138 | 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 |
| 137 | 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 |
| 136 | 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 |
| 135 | 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 |
| 134 | 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 |
| 133 | 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 |
| 132 | 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 |
| 131 | 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 |
| 130 | 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> , 2018 , 11, 4093-4107 | 4 | 13 |
| 129 | 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 |
| 128 | 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 |
| 127 | A global spatially contiguous solar-induced fluorescence (CSIF) dataset using neural networks. <i>Biogeosciences</i> , 2018 , 15, 5779-5800 | 4.6 | 95 |
| 126 | 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 |
| 125 | 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 |
| 124 | The Ozone Monitoring Instrument: overview of 14 years in space. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 5699-5745 | 6.8 | 163 |
| 123 | Tundra photosynthesis captured by satellite-observed solar-induced chlorophyll fluorescence. <i>Geophysical Research Letters</i> , 2017 , 44, 1564-1573 | 4.9 | 47 |
| 122 | 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 |
| 121 | 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 |

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| 120 | 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 |
| 119 | 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 |
| 118 | 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 |
| 117 | A Cloud-Ozone Data Product from Aura OMI and MLS Satellite Measurements. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 4067-4078 | 4 | 5 |
| 116 | The Ozone Monitoring Instrument: Overview of twelve years in space 2017 , | | 2 |
| 115 | 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, 1445-1458 | 4 | 55 |
| 114 | Continuation of long-term global SO ₂ pollution monitoring from OMI to OMPS. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 1495-1509 | 4 | 36 |
| 113 | India Is Overtaking China as the World's Largest Emitter of Anthropogenic Sulfur Dioxide. <i>Scientific Reports</i> , 2017 , 7, 14304 | 4.9 | 182 |
| 112 | The impact of alternative trait-scaling hypotheses for the maximum photosynthetic carboxylation rate (V _c) on global gross primary production. <i>New Phytologist</i> , 2017 , 215, 1370-1386 | 9.8 | 82 |
| 111 | Tropospheric Emissions: Monitoring of Pollution (TEMPO). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 186, 17-39 | 2.1 | 163 |
| 110 | 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 |
| 109 | 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 |
| 108 | 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 |
| 107 | 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 |
| 106 | Improving the monitoring of crop productivity using spaceborne solar-induced fluorescence. <i>Global Change Biology</i> , 2016 , 22, 716-26 | 11.4 | 180 |
| 105 | Space-based detection of missing sulfur dioxide sources of global air pollution. <i>Nature Geoscience</i> , 2016 , 9, 496-500 | 18.3 | 105 |
| 104 | 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 |
| 103 | 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 |

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| 102 | 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 |
| 101 | A global catalogue of large SO ₂ sources and emissions derived from the Ozone Monitoring Instrument 2016 , | | 5 |
| 100 | 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 |
| 99 | 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 |
| 98 | Drought rapidly diminishes the large net CO uptake in 2011 over semi-arid Australia. <i>Scientific Reports</i> , 2016 , 6, 37747 | 4.9 | 58 |
| 97 | Can we retrieve vegetation photosynthetic capacity parameter from solar-induced fluorescence? 2016 , | | 3 |
| 96 | 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 |
| 95 | 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 |
| 94 | Photosynthetic seasonality of global tropical forests constrained by hydroclimate. <i>Nature Geoscience</i> , 2015 , 8, 284-289 | 18.3 | 251 |
| 93 | 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 |
| 92 | 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 |
| 91 | 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 |
| 90 | 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 |
| 89 | 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 ¹⁵⁵ | 7.7 | 155 |
| 88 | 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 |
| 87 | &i&g&t;Editorial Note&/i&g&t; "A novel Whole Air Sample Profiler (WASP) for the quantification of volatile organic compounds in the boundary layer" published in Atmos. Meas. Tech., 6, 2703-2712, 2013. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 3405-3406 | 4 | |
| 86 | 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 |
| 85 | 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 |

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| 84 | 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 |
| 83 | 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 |
| 82 | 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 |
| 81 | A linear method for the retrieval of sun-induced chlorophyll fluorescence from GOME-2 and SCIAMACHY data 2014 , | | 11 |
| 80 | Potential of the TROPospheric Monitoring Instrument (TROPOMI) onboard the Sentinel-5 Precursor for the monitoring of terrestrial chlorophyll fluorescence 2014 , | | 4 |
| 79 | 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 |
| 78 | 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 |
| 77 | 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 |
| 76 | Note on rotational-Raman scattering in the O ₂ A- and B-bands. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 981-990 | 4 | 25 |
| 75 | Global monitoring of terrestrial chlorophyll fluorescence from moderate spectral resolution near-infrared satellite measurements: methodology, simulations, and application to GOME-2 2013 , | | 43 |
| 74 | 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 |
| 73 | 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 |
| 72 | 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 |
| 71 | 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 |
| 70 | 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 |
| 69 | 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 |
| 68 | 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 |
| 67 | MERRA: NASA's Modern-Era Retrospective Analysis for Research and Applications. <i>Journal of Climate</i> , 2011 , 24, 3624-3648 | 4.4 | 3548 |

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| 66 | First observations of global and seasonal terrestrial chlorophyll fluorescence from space. <i>Biogeosciences</i> , 2011 , 8, 637-651 | 4.6 | 385 |
| 65 | Fast simulators for satellite cloud optical centroid pressure retrievals, 1. evaluation of OMI cloud retrievals 2011 , | | 3 |
| 64 | Detection of multi-layer and vertically-extended clouds using A-train sensors. <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 233-247 | 4 | 44 |
| 63 | 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 |
| 62 | 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 |
| 61 | 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 |
| 60 | 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 |
| 59 | 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 |
| 58 | 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 |
| 57 | Impact of tropospheric nitrogen dioxide on the regional radiation budget. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 6389-6400 | 6.8 | 33 |
| 56 | 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 |
| 55 | Three-way comparison between OMI and PARASOL cloud pressure products. <i>Journal of Geophysical Research</i> , 2008 , 113, | | 88 |
| 54 | Introduction to special section on Aura Validation. <i>Journal of Geophysical Research</i> , 2008 , 113, | | 9 |
| 53 | Errors induced by ozone field horizontal inhomogeneities into simulated nadir-viewing orbital backscatter UV measurements. <i>Journal of Geophysical Research</i> , 2007 , 112, | | 1 |
| 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 | 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 |
| 50 | Improving Global Analysis and Forecasting with AIRS. <i>Bulletin of the American Meteorological Society</i> , 2006 , 87, 891-895 | 6.1 | 153 |
| 49 | Observations over hurricanes from the ozone monitoring instrument. <i>Geophysical Research Letters</i> , 2006 , 33, | 4.9 | 15 |

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| 48 | 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 |
| 47 | 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 |
| 46 | 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 |
| 45 | Retrieval of cloud pressure and oceanic chlorophyll content using Raman scattering in GOME ultraviolet spectra. <i>Journal of Geophysical Research</i> , 2004 , 109, | | 48 |
| 44 | 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 |
| 43 | Evaluation of Refractivity Profiles from CHAMP and SAC-C GPS Radio Occultation 2004 , 375-382 | | |
| 42 | The Mars Atmospheric Constellation Observatory (MACO) Concept 2004 , 393-405 | | 8 |
| 41 | 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 |
| 40 | Tangent linear analysis of the Mosaic land surface model. <i>Journal of Geophysical Research</i> , 2003 , 108, | | 3 |
| 39 | Mineral aerosol contamination of TIROS Operational Vertical Sounder (TOVS) temperature and moisture retrievals. <i>Journal of Geophysical Research</i> , 2003 , 108, | | 12 |
| 38 | Evaluation of CHAMP radio occultation refractivity using data assimilation office analyses and radiosondes. <i>Geophysical Research Letters</i> , 2003 , 30, | 4.9 | 7 |
| 37 | Assimilation Experiments of One-dimensional Variational Analyses with GPS/MET Refractivity 2003 , 515-520 | | 9 |
| 36 | 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 |
| 35 | 1DVAR analysis of temperature and humidity using GPS radio occultation refractivity data. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 14-1 | | 49 |
| 34 | Ocean Raman scattering in satellite backscatter UV measurements. <i>Geophysical Research Letters</i> , 2002 , 29, 18-1-18-4 | 4.9 | 41 |
| 33 | 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 |
| 32 | 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 |
| 31 | NOAA/ASADoD Workshop on Satellite Data Assimilation. <i>Bulletin of the American Meteorological Society</i> , 2000 , 81, 2457-2462 | 6.1 | 13 |

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| 30 | Variational cloud-clearing with TOVS data. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2000 , 126, 725-748 | 6.4 | 25 |
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