# The MODIS Cloud Optical and Microphysical Products: From Terra and Aqua

Citation Report

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 1 | Large-Scale Analysis of Cirrus Clouds from AVHRR Data: Assessment of Both a Microphysical Index and the Cloud-Top Temperature. Journal of Applied Meteorology and Climatology, 1997, 36, 664-675. | 1.7 | 44 |
| 2 | Expansion of tabulated scattering matrices in generalized spherical functions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 183, 78-84. | 2.3 | 5 |
| 3 | Ground‑based High Spectral Resolution Lidar observation of aerosol vertical distribution in the summertime Southeast United States. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2970-3004. | 3.3 | 35 |
| 4 | Intercomparisons of marine boundary layer cloud properties from the ARM CAP‑MBL campaign and two MODIS cloud products. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2351-2365. | 3.3 | 16 |
| 5 | Optimization and throughput estimation of optical ground networks for LEO-downlinks, GEO-feeder links and GEO-relays. Proceedings of SPIE, 2017, , . | 0.8 | 2 |
| 6 | Digital optical feeder links system for broadband geostationary satellite. Proceedings of SPIE, 2017, , . | 0.8 | 5 |
| 7 | An Improved Small-Angle Approximation for Forward Scattering and Its Use in a Fast Two-Component Radiative Transfer Method. Journals of the Atmospheric Sciences, 2017, 74, 1959-1987. | 1.7 | 10 |
| 8 | A comparison of Aqua MODIS ice and liquid water cloud physical and optical properties between collection 6 and collection 5.1: Pixel‑to‑pixel comparisons. Journal of Geophysical Research D: Atmospheres, 2017, 122, 4528-4549. | 3.3 | 23 |
| 9 | A comparison of Aqua MODIS ice and liquid water cloud physical and optical properties between collection 6 and collection 5.1: Cloud radiative effects. Journal of Geophysical Research D: Atmospheres, 2017, 122, 4550-4564. | 3.3 | 33 |
| 10 | An efficient algorithm for calculating photosynthetically active radiation with MODIS products. Remote Sensing of Environment, 2017, 194, 146-154. | 11.0 | 29 |
| 11 | Effects of ice crystal surface roughness and air bubble inclusions on cirrus cloud radiative properties from remote sensing perspective. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 195, 119-131. | 2.3 | 21 |
| 12 | Validation of quasi-invariant ice cloud radiative quantities with MODIS satellite-based cloud property retrievals. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 194, 47-57. | 2.3 | 7 |
| 13 | Improved ice particle optical property simulations in the ultraviolet to far-infrared regime. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 189, 228-237. | 2.3 | 33 |
| 14 | Characterizing the information content of cloud thermodynamic phase retrievals from the notional PACE OCI shortwave reflectance measurements. Journal of Geophysical Research D: Atmospheres, 2017, 122, 8079-8100. | 3.3 | 9 |
| 15 | Polarized radiative transfer through terrestrial atmosphere accounting for rotational Raman scattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 200, 70-89. | 2.3 | 6 |
| 16 | New insights about cloud vertical structure from CloudSat and CALIPSO observations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 9280-9300. | 3.3 | 47 |
| 17 | Volcano and Ship Tracks Indicate Excessive Aerosol‑Induced Cloud Water Increases in a Climate Model. Geophysical Research Letters, 2017, 44, 12492-12500. | 4.0 | 55 |
| 18 | Mixed-Phase Clouds: Progress and Challenges. Meteorological Monographs, 2017, 58, 5.1-5.50. | 5.0 | 165 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Quantifying the Dependence of Satellite Cloud Retrievals on Instrument Uncertainty. Journal of Climate, 2017, 30, 6959-6976. | 3.2 | 9 |
| 20 | Scale dependence of cirrus horizontal heterogeneity effects on TOA measurements â€" Part I: MODIS brightness temperatures in the thermal infrared. Atmospheric Chemistry and Physics, 2017, 17, 8489-8508. | 4.9 | 5 |
| 21 | Vertical distribution of the particle phase in tropical deep convective clouds as derived from cloud-side reflected solar radiation measurements. Atmospheric Chemistry and Physics, 2017, 17, 9049-9066. | 4.9 | 14 |
| 22 | An A-train and MERRA view of cloud, thermodynamic, and dynamic variability within the subtropical marine boundary layer. Atmospheric Chemistry and Physics, 2017, 17, 9451-9468. | 4.9 | 8 |
| 23 | Unveiling aerosolâ€"cloud interactions â€" Part 1: Cloud contamination in satellite products enhances the aerosol indirect forcing estimate. Atmospheric Chemistry and Physics, 2017, 17, 13151-13164. | 4.9 | 61 |
| 24 | Global and regional estimates of warm cloud droplet number concentration based on 13Âyears of AQUA-MODIS observations. Atmospheric Chemistry and Physics, 2017, 17, 9815-9836. | 4.9 | 82 |
| 25 | Impact of Multiple Scattering on Longwave Radiative Transfer Involving Clouds. Journal of Advances in Modeling Earth Systems, 2017, 9, 3082-3098. | 3.8 | 24 |
| 26 | Correlations of oriented ice and precipitation in marine midlatitude low clouds using collocated CloudSat, CALIOP, and MODIS observations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 8056-8070. | 3.3 | 2 |
| 27 | Effect of Particle Shape, Density, and Inhomogeneity on the Microwave Optical Properties of Graupel and Hailstones. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6366-6378. | 6.3 | 11 |
| 28 | Combined retrieval of Arctic liquid water cloud and surface snow properties using airborne spectral solar remote sensing. Atmospheric Measurement Techniques, 2017, 10, 3215-3230. | 3.1 | 12 |
| 29 | Mapping the Twilight Zoneâ€"What We Are Missing between Clouds and Aerosols. Remote Sensing, 2017, 9, 577. | 4.0 | 15 |
| 30 | Understanding How Low-Level Clouds and Fog Modify the Diurnal Cycle of Orographic Precipitation Using In Situ and Satellite Observations. Remote Sensing, 2017, 9, 920. | 4.0 | 15 |
| 31 | Differences in liquid cloud droplet effective radius and number concentration estimates between MODIS collections 5.1 and 6 over global oceans. Atmospheric Measurement Techniques, 2017, 10, 2105-2116. | 3.1 | 18 |
| 32 | Ice particle morphology and microphysical properties of cirrus clouds inferred from combined CALIOPâ€"IIR measurements. Journal of Geophysical Research D: Atmospheres, 2017, 122, 4440-4462. | 3.3 | 21 |
| 33 | Dust impact on surface solar irradiance assessed with model simulations, satellite observations and ground-based measurements. Atmospheric Measurement Techniques, 2017, 10, 2435-2453. | 3.1 | 89 |
| 34 | Laboratory measurements of light scattering properties of kaolinite dust at 532Ânm. Aerosol Science and Technology, 2018, 52, 666-678. | 3.1 | 4 |
| 35 | An Evaluation of Marine Boundary Layer Cloud Property Simulations in the Community Atmosphere Model Using Satellite Observations: Conventional Subgrid Parameterization versus CLUBB. Journal of Climate, 2018, 31, 2299-2320. | 3.2 | 21 |
| 36 | Estimating precipitation susceptibility in warm marine clouds using multi-sensor aerosol and cloud products from A-Train satellites. Atmospheric Chemistry and Physics, 2018, 18, 1763-1783. | 4.9 | 18 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 37 | An Uncertainty Data Set for Passive Microwave Satellite Observations of Warm Cloud Liquid Water Path. Journal of Geophysical Research D: Atmospheres, 2018, 123, 3668-3687. | 3.3 | 36 |
| 38 | A novel algorithm of cloud detection for water quality studies using 250Âm downscaled MODIS imagery. International Journal of Remote Sensing, 2018, 39, 6429-6439. | 2.9 | 6 |
| 39 | Mitigating Satelliteâ€Based Fire Sampling Limitations in Deriving Biomass Burning Emission Rates: Application to WRFâ€Chem Model Over the Northern subâ€Saharan African Region. Journal of Geophysical Research D: Atmospheres, 2018, 123, 507-528. | 3.3 | 29 |
| 40 | Limitations of AERONET SDA product in presence of cirrus clouds. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 206, 338-341. | 2.3 | 11 |
| 41 | Urban Heat Island Over Delhi Punches Holes in Widespread Fog in the Indoâ€Gangetic Plains. Geophysical Research Letters, 2018, 45, 1114-1121. | 4.0 | 36 |
| 42 | Cirrus Cloud Optical Thickness and Effective Diameter Retrieved by MODIS: Impacts of Single Habit Assumption, 3â€D Radiative Effects, and Cloud Inhomogeneity. Journal of Geophysical Research D: Atmospheres, 2018, 123, 1195-1210. | 3.3 | 3 |
| 43 | Comparing airborne and satellite retrievals of cloud optical thickness and particle effective radius using a spectral radiance ratio technique: two case studies for cirrus and deep convective clouds. Atmospheric Chemistry and Physics, 2018, 18, 4439-4462. | 4.9 | 11 |
| 44 | Observations of Local Positive Low Cloud Feedback Patterns and Their Role in Internal Variability and Climate Sensitivity. Geophysical Research Letters, 2018, 45, 4438-4445. | 4.0 | 23 |
| 45 | Characterizing the Impact of Aerosols on Pre-Hurricane Sandy. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1378-1386. | 4.9 | 3 |
| 46 | A stochastic model for density-dependent microwave Snow- and Graupel scattering coefficients of the NOAA JCSDA community radiative transfer model. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 211, 9-24. | 2.3 | 14 |
| 47 | Contrasting the co-variability of daytime cloud and precipitation over tropical land and ocean. Atmospheric Chemistry and Physics, 2018, 18, 3065-3082. | 4.9 | 10 |
| 48 | Regional Regimeâ€Based Evaluation of Presentâ€Day General Circulation Model Cloud Simulations Using Selfâ€Organizing Maps. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4259-4272. | 3.3 | 18 |
| 49 | Cloud Property Retrieval from Multiband Infrared Measurements by Himawari-8. Journal of the Meteorological Society of Japan, 2018, 96B, 27-42. | 1.8 | 45 |
| 50 | Effects and Applications of Satellite Radiometer 2.25-&lt;inline-formula&gt; &lt;tex-math notation="LaTeX"&gt;$\mu$ &lt;/tex-math&gt; &lt;/inline-formula&gt;m Channel on Cloud Property Retrievals. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 5207-5216. | 6.3 | 16 |
| 51 | Diurnal spatial distributions of aerosol optical and cloud micro-macrophysics properties in Africa based on MODIS observations. Atmospheric Environment, 2018, 182, 252-262. | 4.1 | 4 |
| 52 | A demonstration of adjoint methods for multi-dimensional remote sensing of the atmosphere and surface. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 204, 215-231. | 2.3 | 14 |
| 53 | Multiple Factors Explaining the Deficiency of Cloud Profiling Radar on Detecting Oceanic Warm Clouds. Journal of Geophysical Research D: Atmospheres, 2018, 123, 8135-8158. | 3.3 | 7 |
| 54 | A Review of Ice Cloud Optical Property Models for Passive Satellite Remote Sensing. Atmosphere, 2018, 9, 499. | 2.3 | 38 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 55 | Comparisons of bispectral and polarimetric retrievals of marine boundary layer cloud microphysics: case studies using a LESâ€"satellite retrieval simulator. Atmospheric Measurement Techniques, 2018, 11, 3689-3715. | 3.1 | 23 |
| 56 | The importance of considering sub-grid cloud variability when using satellite observations to evaluate the cloud and precipitation simulations in climate models. Geoscientific Model Development, 2018, 11, 3147-3158. | 3.6 | 16 |
| 57 | Ice crystal number concentration estimates from lidarâ€"radar satellite remote sensing â€" PartÂ2: Controls on the ice crystal number concentration. Atmospheric Chemistry and Physics, 2018, 18, 14351-14370. | 4.9 | 34 |
| 58 | Remote Sensing of Droplet Number Concentration in Warm Clouds: A Review of the Current State of Knowledge and Perspectives. Reviews of Geophysics, 2018, 56, 409-453. | 23.0 | 185 |
| 59 | The Community Cloud retrieval for CLimate (CC4CL) â€" Part 1: A framework applied to multiple satellite imaging sensors. Atmospheric Measurement Techniques, 2018, 11, 3373-3396. | 3.1 | 27 |
| 60 | The Community Cloud retrieval for CLimate (CC4CL) â€" Part 2: The optimal estimation approach. Atmospheric Measurement Techniques, 2018, 11, 3397-3431. | 3.1 | 27 |
| 61 | Parameterizing cloud top effective radii from satellite retrieved values, accounting for vertical photon transport: quantification and correction of the resulting bias in droplet concentration and liquid water path retrievals. Atmospheric Measurement Techniques, 2018, 11, 4273-4289. | 3.1 | 10 |
| 62 | Inference of an Optimal Ice Particle Model through Latitudinal Analysis of MISR and MODIS Data. Remote Sensing, 2018, 10, 1981. | 4.0 | 6 |
| 63 | A Deterministic Self-Organizing Map Approach and its Application on Satellite Data based Cloud Type Classification. , 2018, , . | | 16 |
| 64 | Earth Observations from DSCOVR EPIC Instrument. Bulletin of the American Meteorological Society, 2018, 99, 1829-1850. | 3.3 | 108 |
| 65 | Toward a Broadband Parameterization Scheme for Estimating Surface Solar Irradiance: Development and Preliminary Results on MODIS Products. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,180. | 3.3 | 22 |
| 66 | New Optical Properties of Ice Crystals for Multiclass Cloud Microphysics. Journal of Advances in Modeling Earth Systems, 2018, 10, 2971-2982. | 3.8 | 3 |
| 67 | A Comparison of Cloud Microphysical Properties Derived From MODIS and CALIPSO With In Situ Measurements Over the Wintertime Southern Ocean. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11,120. | 3.3 | 23 |
| 68 | Additional global climate cooling by clouds due to ice crystal complexity. Atmospheric Chemistry and Physics, 2018, 18, 15767-15781. | 4.9 | 37 |
| 69 | Estimating the Decoupling Degree of Subtropical Marine Stratocumulus Decks From Satellite. Geophysical Research Letters, 2018, 45, 12,560. | 4.0 | 12 |
| 70 | An automated cirrus classification. Atmospheric Chemistry and Physics, 2018, 18, 6157-6169. | 4.9 | 5 |
| 71 | The importance of mixed-phase and ice clouds for climate sensitivity in the global aerosolâ€"climate model ECHAM6-HAM2. Atmospheric Chemistry and Physics, 2018, 18, 8807-8828. | 4.9 | 47 |
| 72 | MODIS Retrievals of Cloud Effective Radius in Marine Stratocumulus Exhibit No Significant Bias. Geophysical Research Letters, 2018, 45, 10,656. | 4.0 | 15 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------| 
| 73 | Cloud Microphysical Factors Affecting Simulations of Deep Convection During the Presummer Rainy Season in Southern China. Journal of Geophysical Research D: Atmospheres, 2018, 123, 10,477. | 3.3 | 21 |
| 74 | Uncertainties in MODIS-Based Cloud Liquid Water Path Retrievals at High Latitudes Due to Mixed-Phase Clouds and Cloud Top Height Inhomogeneity. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11,154. | 3.3 | 16 |
| 75 | An update on global atmospheric ice estimates from satellite observations and reanalyses. Atmospheric Chemistry and Physics, 2018, 18, 11205-11219. | 4.9 | 33 |
| 76 | Evaluating the diurnal cycle of South Atlantic stratocumulus clouds as observed by MSG SEVIRI. Atmospheric Chemistry and Physics, 2018, 18, 13283-13304. | 4.9 | 9 |
| 77 | Exploring the first aerosol indirect effect over Southeast Asia using a 10-year collocated MODIS, CALIOP, and model dataset. Atmospheric Chemistry and Physics, 2018, 18, 12747-12764. | 4.9 | 20 |
| 78 | Ice cloud microphysical trends observed by the Atmospheric Infrared Sounder. Atmospheric Chemistry and Physics, 2018, 18, 10715-10739. | 4.9 | 12 |
| 79 | Scale dependence of cirrus heterogeneity effects. Part II: MODIS NIR and SWIR channels. Atmospheric Chemistry and Physics, 2018, 18, 12105-12121. | 4.9 | 7 |
| 80 | Prediction of the Onset of Heavy Rain Using SEVIRI Cloud Observations. Journal of Applied Meteorology and Climatology, 2018, 57, 2343-2361. | 1.5 | 6 |
| 81 | Development of neural network retrievals of liquid cloud properties from multi-angle polarimetric observations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 220, 39-51. | 2.3 | 10 |
| 82 | Inter-Comparison and Evaluation of the Four Longest Satellite-Derived Cloud Climate Data Records: CLARA-A2, ESA Cloud CCI V3, ISCCP-HGM, and PATMOS-x. Remote Sensing, 2018, 10, 1567. | 4.0 | 37 |
| 83 | Long-term variation of cloud droplet number concentrations from space-based Lidar. Remote Sensing of Environment, 2018, 213, 144-161. | 11.0 | 67 |
| 84 | Impact of Ice Cloud Microphysics on Satellite Cloud Retrievals and Broadband Flux Radiative Transfer Model Calculations. Journal of Climate, 2018, 31, 1851-1864. | 3.2 | 36 |
| 85 | Opposite Aerosol Index-Cloud Droplet Effective Radius Correlations Over Major Industrial Regions and Their Adjacent Oceans. Geophysical Research Letters, 2018, 45, 5771-5778. | 4.0 | 28 |
| 86 | Single-footprint retrievals of temperature, water vapor and cloud properties from AIRS. Atmospheric Measurement Techniques, 2018, 11, 971-995. | 3.1 | 39 |
| 87 | Spatio-temporal variability of warm rain events over southern West Africa from geostationary satellite observations for climate monitoring and model evaluation. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 2311-2330. | 2.7 | 8 |
| 88 | Improvement of the Simulation of Cloud Longwave Scattering in Broadband Radiative Transfer Models. Journals of the Atmospheric Sciences, 2018, 75, 2217-2233. | 1.7 | 16 |
| 89 | Vertical profile of cloud optical parameters derived from airborne measurements above, inside and below clouds. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 214, 39-60. | 2.3 | 2 |
| 90 | Errors induced by the neglect of polarization in radiance calculations for three-dimensional cloudy atmospheres. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 218, 151-160. | 2.3 | 12 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 91 | Performance Estimation of Optical LEO Downlinks. IEEE Journal on Selected Areas in Communications, 2018, 36, 1074-1085. | 14.0 | 13 |
| 92 | Spatiotemporal Distributions of Cloud Parameters and the Temperature Response Over the Mongolian Plateau During 2006â€"2015 Based on MODIS Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 549-558. | 4.9 | 16 |
| 93 | The Role of Thermodynamic Phase Shifts in Cloud Optical Depth Variations With Temperature. Geophysical Research Letters, 2019, 46, 4502-4511. | 4.0 | 23 |
| 94 | Optimized Artificial Neural Networks-Based Methods for Statistical Downscaling of Gridded Precipitation Data. Water (Switzerland), 2019, 11, 1653. | 2.7 | 24 |
| 95 | Variability in vertical structure of precipitation with sea surface temperature over the Arabian Sea and the Bay of Bengal as inferred by Tropical Rainfall Measuring Mission precipitation radar measurements. Atmospheric Chemistry and Physics, 2019, 19, 10423-10432. | 4.9 | 6 |
| 96 | Theoretical basis of the algorithms and early phase results of the GCOM-C (Shikisai) SGLI cloud products. Progress in Earth and Planetary Science, 2019, 6, . | 3.0 | 30 |
| 97 | Cloud responses to climate variability over the extratropical oceans as observed by MISR and MODIS. Atmospheric Chemistry and Physics, 2019, 19, 7547-7565. | 4.9 | 7 |
| 98 | Comparison of Cloud Properties from Himawari-8 and FengYun-4A Geostationary Satellite Radiometers with MODIS Cloud Retrievals. Remote Sensing, 2019, 11, 1703. | 4.0 | 38 |
| 99 | Is positive correlation between cloud droplet effective radius and aerosol optical depth over land due to retrieval artifacts or real physical processes?. Atmospheric Chemistry and Physics, 2019, 19, 8879-8896. | 4.9 | 22 |
| 100 | Weak average liquid-cloud-water response to anthropogenic aerosols. Nature, 2019, 572, 51-55. | 27.8 | 111 |
| 101 | Evaluation of Cloud Top Height Retrievals from Chinaâ€™s Next-Generation Geostationary Meteorological Satellite FY-4A. Journal of Meteorological Research, 2019, 33, 553-562. | 2.4 | 18 |
| 102 | Ice Cloud Optical Thickness, Effective Radius, And Ice Water Path Inferred From Fused MISR and MODIS Measurements Based on a Pixelâ€Level Optimal Ice Particle Roughness Model. Journal of Geophysical Research D: Atmospheres, 2019, 124, 12126-12140. | 3.3 | 9 |
| 103 | Impacts of Partly Cloudy Pixels on Shortwave Broadband Irradiance Computations. Journal of Atmospheric and Oceanic Technology, 2019, 36, 369-386. | 1.3 | 4 |
| 104 | The global aerosolâ€"climate model ECHAM6.3â€"HAM2.3 â€" Part 2: Cloud evaluation, aerosol radiative forcing, and climate sensitivity. Geoscientific Model Development, 2019, 12, 3609-3639. | 3.6 | 44 |
| 105 | The Key Role of Warm Rain Parameterization in Determining the Aerosol Indirect Effect in a Global Climate Model. Journal of Climate, 2019, 32, 4409-4430. | 3.2 | 28 |
| 106 | Analysis and quantification of ENSO-linked changes in the tropical Atlantic cloud vertical distribution using 14 years of MODIS observations. Atmospheric Chemistry and Physics, 2019, 19, 13535-13546. | 4.9 | 3 |
| 107 | The Impact of Ship Emission Controls Recorded by Cloud Properties. Geophysical Research Letters, 2019, 46, 12547-12555. | 4.0 | 32 |
| 108 | A fast vector radiative transfer model for the atmosphere-ocean coupled system. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 239, 106667. | 2.3 | 10 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 109 | Warm Rain Rates from AMSR-E 89-GHz Brightness Temperatures Trained Using CloudSat Rain-Rate Observations. Journal of Atmospheric and Oceanic Technology, 2019, 36, 1033-1051. | 1.3 | 12 |
| 110 | Cloud scattering impact on thermal radiative transfer and global longwave radiation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 239, 106669. | 2.3 | 10 |
| 111 | A Novel Framework for Evaluating and Improving Parameterized Subtropical Marine Boundary Layer Cloudiness. Monthly Weather Review, 2019, 147, 3241-3260. | 1.4 | 6 |
| 112 | Cellular Statistical Models of Broken Cloud Fields. Part IV: Effects of Pixel Size on Idealized Satellite Observations. Journals of the Atmospheric Sciences, 2019, 76, 1329-1348. | 1.7 | 2 |
| 113 | Using Sounder Data to Improve Cirrus Cloud Height Estimation from Satellite Imagers. Journal of Atmospheric and Oceanic Technology, 2019, 36, 1331-1342. | 1.3 | 11 |
| 114 | A Method for Assessing Relative Skill in Retrieving Cloud and Precipitation Properties in Next-Generation Cloud Radar and Radiometer Orbiting Observatories. Journal of Atmospheric and Oceanic Technology, 2019, 36, 2283-2306. | 1.3 | 4 |
| 115 | Observations and hypotheses related to low to middle free tropospheric aerosol, water vapor and altocumulus cloud layers within convective weather regimes: a SEAC&amp;lt;sup&amp;gt;4&amp;lt;/sup&amp;gt;RS case study. Atmospheric Chemistry and Physics, 2019, 19, 11413-11442. | 4.9 | 4 |
| 116 | Estimating surface solar irradiance from satellites: Past, present, and future perspectives. Remote Sensing of Environment, 2019, 233, 111371. | 11.0 | 109 |
| 117 | Impacts of distribution patterns of cloud optical depth on the calculation of radiative forcing. Atmospheric Research, 2019, 218, 70-77. | 4.1 | 5 |
| 118 | Universally deployable extreme learning machines integrated with remotely sensed MODIS satellite predictors over Australia to forecast global solar radiation: A new approach. Renewable and Sustainable Energy Reviews, 2019, 104, 235-261. | 16.4 | 56 |
| 119 | Non-Monotonic Aerosol Effect on Precipitation in Convective Clouds over Tropical Oceans. Scientific Reports, 2019, 9, 7809. | 3.3 | 29 |
| 120 | Extending XBAER Algorithm to Aerosol and Cloud Condition. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8262-8275. | 6.3 | 5 |
| 121 | Subgrid variations of the cloud water and droplet number concentration over the tropical ocean: satellite observations and implications for warm rain simulations in climate models. Atmospheric Chemistry and Physics, 2019, 19, 1077-1096. | 4.9 | 26 |
| 122 | Simulation of the transport, vertical distribution, optical properties and radiative impact of smoke aerosols with the ALADIN regional climate model during the ORACLES-2016 and LASIC experiments. Atmospheric Chemistry and Physics, 2019, 19, 4963-4990. | 4.9 | 25 |
| 123 | Retrieval of liquid water cloud properties from POLDER-3 measurements using a neural network ensemble approach. Atmospheric Measurement Techniques, 2019, 12, 1697-1716. | 3.1 | 11 |
| 124 | Sensitivity of liquid cloud optical thickness and effective radius retrievals to cloud bow and glory conditions using two SEVIRI imagers. Atmospheric Measurement Techniques, 2019, 12, 2863-2879. | 3.1 | 10 |
| 125 | Polarimetric retrievals of cloud droplet number concentrations. Remote Sensing of Environment, 2019, 228, 227-240. | 11.0 | 17 |
| 126 | Strong Dependence of Atmospheric Feedbacks on Mixed–Phase Microphysics and Aerosol–Cloud Interactions in HadGEM3. Journal of Advances in Modeling Earth Systems, 2019, 11, 1735-1758. | 3.8 | 85 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 127 | Cloud products from the Earth Polychromatic Imaging Camera (EPIC): algorithms and initial evaluation. Atmospheric Measurement Techniques, 2019, 12, 2019-2031. | 3.1 | 27 |
| 128 | A multilayer cloud detection algorithm for the Suomi-NPP Visible Infrared Imager Radiometer Suite (VIIRS). Remote Sensing of Environment, 2019, 227, 1-11. | 11.0 | 22 |
| 129 | Assessment of seasonal cloud properties in the United Arab Emirates and adjoining regions from geostationary satellite data. Remote Sensing of Environment, 2019, 228, 90-104. | 11.0 | 13 |
| 130 | Cloud Heterogeneity in the Marine Midlatitudes: Dependence on Large‐Scale Meteorology and Implications for General Circulation Models. Journal of Geophysical Research D: Atmospheres, 2019, 124, 3448-3463. | 3.3 | 4 |
| 131 | Analysis of spatial and temporal variability of aerosol optical depth over China using MODIS combined Dark Target and Deep Blue product. Theoretical and Applied Climatology, 2019, 137, 2271-2288. | 2.8 | 28 |
| 132 | Evaluation of CLARA-A2 and ISCCP-H Cloud Cover Climate Data Records over Europe with ECA&D Ground-Based Measurements. Remote Sensing, 2019, 11, 212. | 4.0 | 19 |
| 133 | Cluster‐Based Evaluation of Model Compensating Errors: A Case Study of Cloud Radiative Effect in the Southern Ocean. Geophysical Research Letters, 2019, 46, 3446-3453. | 4.0 | 15 |
| 134 | Terran World Spectral Simulator. Publications of the Astronomical Society of the Pacific, 2019, 131, 054502. | 3.1 | 0 |
| 135 | The Local Aerosol Emission Effect on Surface Shortwave Radiation and Temperatures. Journal of Advances in Modeling Earth Systems, 2019, 11, 806-817. | 3.8 | 15 |
| 136 | Prognostic Precipitation in the MIROC6‐SPRINTARS GCM: Description and Evaluation Against Satellite Observations. Journal of Advances in Modeling Earth Systems, 2019, 11, 839-860. | 3.8 | 44 |
| 137 | An Assessment of the Impacts of Cloud Vertical Heterogeneity on Global Ice Cloud Data Records From Passive Satellite Retrievals. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1578-1595. | 3.3 | 13 |
| 138 | Exploring Aerosols Near Clouds With High‐Spatial‐Resolution Aircraft Remote Sensing During SEAC<sup>4</sup>RS. Journal of Geophysical Research D: Atmospheres, 2019, 124, 2148-2173. | 3.3 | 17 |
| 139 | How should we aggregate data? Methods accounting for the numerical distributions, with an assessment of aerosol optical depth. Atmospheric Chemistry and Physics, 2019, 19, 15023-15048. | 4.9 | 32 |
| 140 | Analysis of global three-dimensional aerosol structure with spectral radiance matching. Atmospheric Measurement Techniques, 2019, 12, 6541-6556. | 3.1 | 6 |
| 141 | Analysis of polarimetric satellite measurements suggests stronger cooling due to aerosol-cloud interactions. Nature Communications, 2019, 10, 5405. | 12.8 | 55 |
| 142 | Satellites See the World's Atmosphere. Meteorological Monographs, 2019, 59, 4.1-4.53. | 5.0 | 36 |
| 143 | Ice Cloud Properties From Himawari-8/AHI Next-Generation Geostationary Satellite: Capability of the AHI to Monitor the DC Cloud Generation Process. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3229-3239. | 6.3 | 104 |
| 144 | A seasonal analysis of aerosol-cloud-radiation interaction over Indian region during 2000–2017. Atmospheric Environment, 2019, 201, 212-222. | 4.1 | 30 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 145 | A Simple Approximation for the Reflectance of a Thick Cloud in Gaseous Absorption Band and Its Application for the Cloud-Top Height Determination. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3324-3330. | 6.3 | 2 |
| 146 | INSAT-3D cloud microphysical product: retrieval and validation. International Journal of Remote Sensing, 2019, 40, 1481-1494. | 2.9 | 6 |
| 147 | Assessing the accuracy and efficiency of longwave radiative transfer models involving scattering effect with cloud optical property parameterizations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 240, 106683. | 2.3 | 10 |
| 148 | Improved Î´-Eddington approximation for optically thin clouds. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 240, 106694. | 2.3 | 4 |
| 149 | Potential of multispectral reflectance for assessment of snow geophysical parameters in Solang valley in the lower Indian Himalayas. GIScience and Remote Sensing, 2020, 57, 107-126. | 5.9 | 15 |
| 150 | Deep Space Observations of Sun Glints from Marine Ice Clouds. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 735-739. | 3.1 | 9 |
| 151 | Consistent signal of aerosol indirect and semi-direct effect on water clouds in the oceanic regions adjacent to the Indian subcontinent. Atmospheric Research, 2020, 232, 104677. | 4.1 | 12 |
| 152 | A new high spatial resolution low stratus/fog retrieval for the Atacama Desert. Remote Sensing of Environment, 2020, 236, 111445. | 11.0 | 8 |
| 153 | The CHIMAERA system for retrievals of cloud top, optical and microphysical properties from imaging sensors. Computers and Geosciences, 2020, 134, 104345. | 4.2 | 3 |
| 154 | Bounding Global Aerosol Radiative Forcing of Climate Change. Reviews of Geophysics, 2020, 58, e2019RG000660. | 23.0 | 424 |
| 155 | High-resolution retrieval of cloud microphysical properties and surface solar radiation using Himawari-8/AHI next-generation geostationary satellite. Remote Sensing of Environment, 2020, 239, 111583. | 11.0 | 106 |
| 156 | The short-term variability of aerosols and their impact on cloud properties and radiative effect over the Indo-Gangetic Plain. Atmospheric Pollution Research, 2020, 11, 630-638. | 3.8 | 14 |
| 157 | Coupling meteorological variables with Moderate Resolution Imaging Spectroradiometer atmospheric products for estimating global solar radiation. Energy Conversion and Management, 2020, 205, 112383. | 9.2 | 3 |
| 158 | Study of satellite-derived cloud microphysical parameters for tropical cyclones over the North Indian Ocean (2010â€"2013). Theoretical and Applied Climatology, 2020, 139, 1163-1173. | 2.8 | 2 |
| 159 | The retrieval of cloud properties based on spectral solar light diffuse transmittance measurements under optically thick cloud cover conditions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 251, 107008. | 2.3 | 4 |
| 160 | Impacts of Greenland Block Location on Clouds and Surface Energy Fluxes Over the Greenland Ice Sheet. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033172. | 3.3 | 11 |
| 161 | Developing a Cloud Scheme With Prognostic Cloud Fraction and Two Moment Microphysics for ECHAMâ€HAM. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001824. | 3.8 | 17 |
| 162 | Tropical Anvil Clouds: Radiative Driving Toward a Preferred State. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033107. | 3.3 | 20 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 163 | Large‐Scale Industrial Cloud Perturbations Confirm Bidirectional Cloud Water Responses to Anthropogenic Aerosols. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032575. | 3.3 | 10 |
| 164 | Water and ice cloud optical thickness changes and radiative effects in East Asia. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 254, 107213. | 2.3 | 10 |
| 165 | Retrieval of Ice‐Over‐Water Cloud Microphysical and Optical Properties Using Passive Radiometers. Geophysical Research Letters, 2020, 47, e2020GL088941. | 4.0 | 12 |
| 166 | Determining AHI Cloud-Top Phase and Intercomparisons With MODIS Products Over North Pacific. IEEE Transactions on Geoscience and Remote Sensing, 2020, , 1-13. | 6.3 | 8 |
| 167 | An Adaptive and Extensible System for Satellite-Based, Large Scale Burnt Area Monitoring in Near-Real Time. Remote Sensing, 2020, 12, 2162. | 4.0 | 11 |
| 168 | Spaceborne Middle‐and Far‐Infrared Observations Improving Nighttime Ice Cloud Property Retrievals. Geophysical Research Letters, 2020, 47, e2020GL087491. | 4.0 | 8 |
| 169 | Satellite Retrieval of Cloud Condensation Nuclei Concentrations in Marine Stratocumulus by Using Clouds as CCN Chambers. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032409. | 3.3 | 14 |
| 170 | Information Content of Ice Cloud Properties from Multi-Spectral, -Angle and -Polarization Observations. Remote Sensing, 2020, 12, 2548. | 4.0 | 3 |
| 171 | Limited Regional Aerosol and Cloud Microphysical Changes Despite Unprecedented Decline in Nitrogen Oxide Pollution During the February 2020 COVID‐19 Shutdown in China. Geophysical Research Letters, 2020, 47, e2020GL088913. | 4.0 | 42 |
| 172 | Derivation of Shortwave Radiometric Adjustments for SNPP and NOAA-20 VIIRS for the NASA MODIS-VIIRS Continuity Cloud Products. Remote Sensing, 2020, 12, 4096. | 4.0 | 17 |
| 173 | Sensitivity of Multispectral Imager Liquid Water Cloud Microphysical Retrievals to the Index of Refraction. Remote Sensing, 2020, 12, 4165. | 4.0 | 8 |
| 174 | Daytime Variability of Cloud Fraction From DSCOVR/EPIC Observations. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031488. | 3.3 | 9 |
| 175 | Advanced radiative transfer modeling system developed for satellite data assimilation and remote sensing applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 251, 107043. | 2.3 | 22 |
| 176 | Cloud Detection of Remote Sensing Image Based on Multi Feature Fusion. , 2020, , . | | 1 |
| 177 | Can atmospheric reanalyses (CRA and ERA5) represent cloud spatiotemporal characteristics?. Atmospheric Research, 2020, 244, 105091. | 4.1 | 21 |
| 178 | Cloud thermodynamic phase detection using a directional polarimetric camera (DPC). Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 253, 107179. | 2.3 | 12 |
| 179 | Trends in AOD, Clouds, and Cloud Radiative Effects in Satellite Data and CMIP5 and CMIP6 Model Simulations Over Aerosol Source Regions. Geophysical Research Letters, 2020, 47, e2020GL087132. | 4.0 | 48 |
| 180 | Features of spectral dependence of single scattering characteristics for crystalline clouds. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 251, 107026. | 2.3 | 0 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 181 | Annual and seasonal variability of net heat flux in the Northern Indian Ocean. International Journal of Remote Sensing, 2020, 41, 6461-6483. | 2.9 | 0 |
| 182 | Spatial distribution of cloud droplet size properties from Airborne Hyper-Angular Rainbow Polarimeter (AirHARP) measurements. Atmospheric Measurement Techniques, 2020, 13, 1777-1796. | 3.1 | 22 |
| 183 | Surface Diffuse Solar Radiation Determined by Reanalysis and Satellite over East Asia: Evaluation and Comparison. Remote Sensing, 2020, 12, 1387. | 4.0 | 25 |
| 184 | Evaluation of aerosol and cloud properties in three climate models using MODIS observations and its corresponding COSP simulator, as well as their application in aerosol–cloud interactions. Atmospheric Chemistry and Physics, 2020, 20, 1607-1626. | 4.9 | 12 |
| 185 | Deconvolution of boundary layer depth and aerosol constraints on cloud water path in subtropical stratocumulus decks. Atmospheric Chemistry and Physics, 2020, 20, 3609-3621. | 4.9 | 25 |
| 186 | Open cells exhibit weaker entrainment of free-tropospheric biomass burning aerosol into the south-east Atlantic boundary layer. Atmospheric Chemistry and Physics, 2020, 20, 4059-4084. | 4.9 | 21 |
| 187 | An observational study of the effects of aerosols on diurnal variation of heavy rainfall and associated clouds over Beijing–Tianjin–Hebei. Atmospheric Chemistry and Physics, 2020, 20, 5211-5229. | 4.9 | 30 |
| 188 | Downward cloud venting of the central African biomass burning plume during the West Africa summer monsoon. Atmospheric Chemistry and Physics, 2020, 20, 5373-5390. | 4.9 | 3 |
| 189 | Estimation of cloud optical thickness, single scattering albedo and effective droplet radius using a shortwave radiative closure study in Payerne. Atmospheric Measurement Techniques, 2020, 13, 907-923. | 3.1 | 2 |
| 190 | Impact of Cloud Longwave Scattering on Radiative Fluxes Associated With the Madden–Julian Oscillation in the Indian Ocean and Maritime Continent. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032591. | 3.3 | 6 |
| 191 | A General Parameterization Scheme for the Estimation of Incident Photosynthetically Active Radiation Under Cloudy Skies. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 6255-6265. | 6.3 | 10 |
| 192 | Global Statistics of Ice Microphysical and Optical Properties at Tops of Optically Thick Ice Clouds. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031811. | 3.3 | 16 |
| 193 | Large–Scale Characteristics of Tropical Convective Systems Through the Prism of Cloud Regime. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031157. | 3.3 | 8 |
| 194 | Validation of the CERES Edition-4A Surface-Only Flux Algorithms. Journal of Applied Meteorology and Climatology, 2020, 59, 281-295. | 1.5 | 29 |
| 195 | Construction of Nighttime Cloud Layer Height and Classification of Cloud Types. Remote Sensing, 2020, 12, 668. | 4.0 | 7 |
| 196 | Detection and attribution of aerosol–cloud interactions in large-domain large-eddy simulations with the ICOsahedral Non-hydrostatic model. Atmospheric Chemistry and Physics, 2020, 20, 5657-5678. | 4.9 | 20 |
| 197 | A machine-learning-based cloud detection and thermodynamic-phase classification algorithm using passive spectral observations. Atmospheric Measurement Techniques, 2020, 13, 2257-2277. | 3.1 | 37 |
| 198 | Atmospheric observations of the water vapour continuum in the near-infrared windows between 2500 and 6600 cm$^{-1}$. Atmospheric Measurement Techniques, 2020, 13, 2335-2361. | 3.1 | 6 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 199 | An accurate and efficient radiative transfer model for simulating all-sky images from Fengyun satellite radiometers. Science China Earth Sciences, 2020, 63, 1701-1713. | 5.2 | 7 |
| 200 | Anak Krakatau triggers volcanic freezer in the upper troposphere. Scientific Reports, 2020, 10, 3584. | 3.3 | 29 |
| 201 | Satellite observations of aerosols and clouds over southern China from 2006 to 2015: analysis of changes and possible interaction mechanisms. Atmospheric Chemistry and Physics, 2020, 20, 457-474. | 4.9 | 14 |
| 202 | Impacts of cloud scattering properties on FY-3D HIRAS simulations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 246, 106902. | 2.3 | 3 |
| 203 | On the retrieval of aerosol optical depth over cryosphere using passive remote sensing. Remote Sensing of Environment, 2020, 241, 111731. | 11.0 | 13 |
| 204 | Above-cloud aerosol optical depth from airborne observations in the southeast Atlantic. Atmospheric Chemistry and Physics, 2020, 20, 1565-1590. | 4.9 | 23 |
| 205 | Seasonal and annual segregation of liquid water and ice clouds in Iran and their relation to geographic components and precipitation. Theoretical and Applied Climatology, 2020, 140, 963-982. | 2.8 | 1 |
| 206 | Estimation of Surface Shortwave Radiation From Himawari-8 Satellite Data Based on a Combination of Radiative Transfer and Deep Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5304-5316. | 6.3 | 43 |
| 207 | Analysis of the Relationship between the Cloud Water Path and Precipitation Intensity of Mature Typhoons in the Northwest Pacific Ocean. Advances in Atmospheric Sciences, 2020, 37, 359-376. | 4.3 | 4 |
| 208 | Identifying Particle Growth Processes in Marine Low Clouds Using Spatial Variances of Imagerâ€Derived Cloud Parameters. Geophysical Research Letters, 2020, 47, e2020GL087121. | 4.0 | 2 |
| 209 | Stratocumulus cloud clearings: statistics from satellites, reanalysis models, and airborne measurements. Atmospheric Chemistry and Physics, 2020, 20, 4637-4665. | 4.9 | 7 |
| 210 | Characterization of raindrop size distributions and its response to cloud microphysical properties. Atmospheric Research, 2021, 249, 105292. | 4.1 | 14 |
| 211 | AHI-Derived Daytime Cloud Optical/Microphysical Properties and Their Evaluations With the Collection-6.1 MOD06 Product. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6431-6450. | 6.3 | 6 |
| 212 | Toward a Better Surface Radiation Budget Analysis Over Sea Ice in the High Arctic Ocean: A Comparative Study Between Satellite, Reanalysis, and localâ€scale Observations. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD032555. | 3.3 | 15 |
| 213 | CERES MODIS Cloud Product Retrievals for Edition 4â€"Part I: Algorithm Changes. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2744-2780. | 6.3 | 75 |
| 214 | CERES MODIS Cloud Product Retrievals for Edition 4â€"Part II: Comparisons to CloudSat and CALIPSO. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3695-3724. | 6.3 | 22 |
| 215 | Post hoc Uncertainty Quantification for Remote Sensing Observing Systems. SIAM-ASA Journal on Uncertainty Quantification, 2021, 9, 1064-1093. | 2.0 | 4 |
| 216 | Data-Driven Cloud Clustering via a Rotationally Invariant Autoencoder. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-25. | 6.3 | 7 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 217 | Assessing Uncertainties and Approximations in Solar Heating of the Climate System. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002131. | 3.8 | 0 |
| 218 | Seasonal and interannual variations in the propagation of photosynthetically available radiation through the Arctic atmosphere. Elementa, 2021, 9, . | 3.2 | 4 |
| 219 | Reliability of visual detections of cirrus over Poland. Theoretical and Applied Climatology, 2021, 144, 1-11. | 2.8 | 1 |
| 220 | Global Impact of Cloud Longwave Scattering in an Atmosphereâ€Only General Circulation Model Simulation. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033968. | 3.3 | 4 |
| 221 | An Efficient and Accurate Algorithm for Computing Grid-Averaged Solar Fluxes for Horizontally Inhomogeneous Clouds. Journals of the Atmospheric Sciences, 2021, 78, 385-398. | 1.7 | 0 |
| 222 | Evaluating the Lagrangian Evolution of Subtropical Low Clouds in GCMs Using Observations: Mean Evolution, Time Scales, and Responses to Predictors. Journals of the Atmospheric Sciences, 2021, 78, 353-372. | 1.7 | 1 |
| 223 | The behavior of high-CAPE (convective available potential energy) summer convection in large-domain large-eddy simulations with ICON. Atmospheric Chemistry and Physics, 2021, 21, 4285-4318. | 4.9 | 4 |
| 224 | Simulation of potential formation of atmospheric pollution from aboveground storage tank leakage after severe storms. Atmospheric Environment, 2021, 248, 118225. | 4.1 | 4 |
| 225 | Analysis of Near-Cloud Changes in Atmospheric Aerosols Using Satellite Observations and Global Model Simulations. Remote Sensing, 2021, 13, 1151. | 4.0 | 3 |
| 226 | Validation of the Sentinel-5 Precursor TROPOMI cloud data with Cloudnet, Aura OMI O&lt;sub&gt;2&lt;/sub&gt;â€"O&lt;sub&gt;2&lt;/sub&gt;, MODIS, and Suomi-NPP VIIRS. Atmospheric Measurement Techniques, 2021, 14, 2451-2476. | 3.1 | 25 |
| 227 | An Overview of Atmospheric Features Over the Western North Atlantic Ocean and North American East Coastâ€"Part 2: Circulation, Boundary Layer, and Clouds. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033423. | 3.3 | 26 |
| 228 | Spatio-Temporal Distribution of Deep Convection Observed along the Trans-Mexican Volcanic Belt. Remote Sensing, 2021, 13, 1215. | 4.0 | 5 |
| 230 | A Bimodal Diagnostic Cloud Fraction Parameterization. Part II: Evaluation and Resolution Sensitivity. Monthly Weather Review, 2021, 149, 859-878. | 1.4 | 4 |
| 231 | Evaluation of MODIS and Himawariâ€8 Low Clouds Retrievals Over the Southern Ocean With In Situ Measurements From the SOCRATES Campaign. Earth and Space Science, 2021, 8, e2020EA001397. | 2.6 | 11 |
| 232 | The possible linkage of satellite based cloud microphysical parameters (CMP) to the Indian Summer Monsoon (ISM) active and break phase. Advances in Space Research, 2021, 68, 1663-1675. | 2.6 | 3 |
| 233 | A fast cloud geometrical thickness retrieval algorithm for single-layer marine liquid clouds using OCO-2 oxygen A-band measurements. Remote Sensing of Environment, 2021, 256, 112305. | 11.0 | 4 |
| 234 | Cloud-Precipitation Hybrid Regimes and their Projection onto IMERG Precipitation Data. Journal of Applied Meteorology and Climatology, 2021, , . | 1.5 | 6 |
| 235 | Observing the timescales of aerosolâ€"cloud interactions in snapshot satellite images. Atmospheric Chemistry and Physics, 2021, 21, 6093-6109. | 4.9 | 23 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 236 | Constraining ice water content of thin Antarctic cirrus clouds using ground-based lidar and satellite data. Journals of the Atmospheric Sciences, 2021, , . | 1.7 | 2 |
| 237 | The effect of low-level thin arctic clouds on shortwave irradiance: evaluation of estimates from spaceborne passive imagery with aircraft observations. Atmospheric Measurement Techniques, 2021, 14, 2673-2697. | 3.1 | 7 |
| 238 | The Use of Superspheroids as Surrogates for Modeling Electromagnetic Wave Scattering by Ice Crystals. Remote Sensing, 2021, 13, 1733. | 4.0 | 8 |
| 240 | Evaluation of Cloud Mask and Cloud Top Height from Fengyun-4A with MODIS Cloud Retrievals over the Tibetan Plateau. Remote Sensing, 2021, 13, 1418. | 4.0 | 5 |
| 241 | An Optimization Approach for Estimating Multiple Land Surface and Atmospheric Variables From the Geostationary Advanced Himawari Imager Top-of-Atmosphere Observations. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2888-2908. | 6.3 | 16 |
| 242 | Can the Earthâ€"Moon Distance Influence the Accuracy of Lunar Irradiance with the Plane-Parallel Assumption in Atmospheric Radiative Transfer at Night?. Journals of the Atmospheric Sciences, 2021, 78, 2459-2469. | 1.7 | 4 |
| 243 | Version 4 CALIPSO Imaging Infrared Radiometer ice and liquid water cloud microphysical properties â€" Part II: Results over oceans. Atmospheric Measurement Techniques, 2021, 14, 3277-3299. | 3.1 | 6 |
| 244 | A Climatological View of Horizontal Ice Plates in Clouds: Findings From Nadir and Offâ€Nadir CALIPSO Observations. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033562. | 3.3 | 7 |
| 245 | Version 4 CALIPSO Imaging Infrared Radiometer ice and liquid water cloud microphysical properties â€" Part I: The retrieval algorithms. Atmospheric Measurement Techniques, 2021, 14, 3253-3276. | 3.1 | 9 |
| 246 | The Evolution of an AgI Cloudâ€Seeding Track in Central China as Seen by a Combination of Radar, Satellite, and Disdrometer Observations. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033914. | 3.3 | 6 |
| 247 | Assessment and Error Analysis of Terraâ€MODIS and MISR Cloudâ€Top Heights Through Comparison With ISSâ€CATS Lidar. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034281. | 3.3 | 11 |
| 248 | Sensitivity of radiative flux simulations to ice cloud parameterization over the equatorial western Pacific Ocean region. Journals of the Atmospheric Sciences, 2021, , . | 1.7 | 5 |
| 249 | Evaluation of Visible Infrared Imaging Radiometer Suite (VIIRS) neural network cloud detection against current operational cloud masks. Atmospheric Measurement Techniques, 2021, 14, 3371-3394. | 3.1 | 6 |
| 250 | Sahelian Heat Wave Characterization From Observational Data Sets. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034465. | 3.3 | 2 |
| 251 | The retrieval of snow properties from SLSTR Sentinel-3 â€" Part 1: Method description and sensitivity study. Cryosphere, 2021, 15, 2757-2780. | 3.9 | 6 |
| 252 | The retrieval of snow properties from SLSTR Sentinel-3 â€" Part 2: Results and validation. Cryosphere, 2021, 15, 2781-2802. | 3.9 | 7 |
| 253 | Climate impact of aircraft-induced cirrus assessed from satellite observations before and during COVID-19. Environmental Research Letters, 2021, 16, 064051. | 5.2 | 21 |
| 254 | Examining Cloud Macrophysical Changes over the Pacific for 2007â€"2017 Using CALIPSO, CloudSat, and MODIS Observations. Journal of Applied Meteorology and Climatology, 2021, , . | 1.5 | 2 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 255 | Identifying meteorological influences on marine low-cloud mesoscale morphology using satellite classifications. Atmospheric Chemistry and Physics, 2021, 21, 9629-9642. | 4.9 | 6 |
| 256 | Energetics of surface melt in West Antarctica. Cryosphere, 2021, 15, 3459-3494. | 3.9 | 9 |
| 257 | Effect of Aerosols, Tropospheric NO2 and Clouds on Surface Solar Radiation over the Eastern Mediterranean (Greece). Remote Sensing, 2021, 13, 2587. | 4.0 | 7 |
| 258 | Optical Property Model for Cirrus Clouds Based on Airborne Multi-Angle Polarization Observations. Remote Sensing, 2021, 13, 2754. | 4.0 | 3 |
| 259 | Relations between marine biogeochemical indices and cloud properties over the Arabian Sea. Journal of Earth System Science, 2021, 130, 1. | 1.3 | 0 |
| 260 | Snow Cover Variability in the Greater Alpine Region in the MODIS Era (2000â€"2019). Remote Sensing, 2021, 13, 2945. | 4.0 | 13 |
| 261 | Increasing the spatial resolution of cloud property retrievals from Meteosat SEVIRI by use of its high-resolution visible channel: implementation and examples. Atmospheric Measurement Techniques, 2021, 14, 5107-5126. | 3.1 | 5 |
| 262 | On the Relation among Satellite Observed Liquid Water Path, Cloud Droplet Number Concentration and Cloud Base Rain Rate and Its Implication to the Auto-Conversion Parameterization in Stratocumulus Clouds. Journal of Climate, 2021, , 1. | 3.2 | 0 |
| 263 | Aerosol Induced Changes in Sea Surface Temperature Over the Bay of Bengal Due to COVID-19 Lockdown. Frontiers in Marine Science, 2021, 8, . | 2.5 | 8 |
| 264 | Effect of Scattering Angle on Earth Reflectance. Frontiers in Remote Sensing, 2021, 2, . | 3.5 | 7 |
| 265 | Intra-seasonal contrasting trends in clouds due to warming induced circulation changes. Scientific Reports, 2021, 11, 16985. | 3.3 | 6 |
| 266 | Genesis of a Severe Dust Storm Over the Indian Subcontinent: Dynamics and Impacts. Earth and Space Science, 2022, 9, e2021EA001702. | 2.6 | 7 |
| 267 | Multiparameter Estimation From Landsat Observations With Topographic Consideration. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7353-7369. | 6.3 | 1 |
| 268 | Multiâ€"Source Data Based Investigation of Aerosolâ€"Cloud Interaction Over the North China Plain and North of the Yangtze Plain. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035609. | 3.3 | 19 |
| 269 | Liquid Phase Cloud Microphysical Property Estimates From CALIPSO Measurements. Frontiers in Remote Sensing, 2021, 2, . | 3.5 | 8 |
| 270 | A synergic study on estimating surface downward shortwave radiation from satellite data. Remote Sensing of Environment, 2021, 264, 112639. | 11.0 | 13 |
| 271 | A correlational study on size differentiated aerosols on monsoonal and pre-monsoonal cloud properties over the Indo Gangetic Basin. Atmospheric Research, 2021, 262, 105796. | 4.1 | 3 |
| 272 | Discrimination of Biomass-Burning Smoke From Clouds Over the Ocean Using MODIS Measurements. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10. | 6.3 | 0 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 273 | Detecting Multilayer Clouds From the Geostationary Advanced Himawari Imager Using Machine Learning Techniques. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12. | 6.3 | 6 |
| 275 | Impact of aerosols on deep convective clouds using integrated remote sensing techniques. Air Quality, Atmosphere and Health, 2020, 13, 815-825. | 3.3 | 4 |
| 276 | Evaluation of AIRS Cloud Phase Classification over the Arctic Ocean against Combined CloudSatâ€"CALIPSO Observations. Journal of Applied Meteorology and Climatology, 2020, 59, 1277-1294. | 1.5 | 4 |
| 277 | A Flexible Parameterization for Shortwave and Longwave Optical Properties of Ice Crystals and Derived Bulk Optical Properties for Climate Models. Journals of the Atmospheric Sciences, 2020, 77, 1245-1260. | 1.7 | 6 |
| 278 | Modification of Cloud Droplet Number Concentration to Reduce Global Warming: The Impact of Marine Cloud Brightening on the Radiative Forcing at the Earth's Surface. SSRN Electronic Journal, 0, , . | 0.4 | 1 |
| 279 | Regional Differences in Raindrop Size Distribution within Indian Subcontinent and Adjoining Seas as Inferred from Global Precipitation Measurement Dual-frequency Precipitation Radar. Journal of the Meteorological Society of Japan, 2020, 98, 573-584. | 1.8 | 15 |
| 280 | The NASA MODIS-VIIRS Continuity Cloud Optical Properties Products. Remote Sensing, 2021, 13, 2. | 4.0 | 29 |
| 281 | Potential of Hyperspectral Thermal Infrared Spaceborne Measurements to Retrieve Ice Cloud Physical Properties: Case Study of IASI and IASI-NG. Remote Sensing, 2021, 13, 116. | 4.0 | 2 |
| 282 | Linkage among ice crystal microphysics, mesoscale dynamics, and cloud and precipitation structures revealed by collocated microwave radiometer and multifrequency radar observations. Atmospheric Chemistry and Physics, 2020, 20, 12633-12653. | 4.9 | 13 |
| 283 | A test of the ability of current bulk optical models to represent the radiative properties of cirrus cloud across the mid- and far-infrared. Atmospheric Chemistry and Physics, 2020, 20, 12889-12903. | 4.9 | 9 |
| 284 | Constraining the Twomey effect from satellite observations: issues and perspectives. Atmospheric Chemistry and Physics, 2020, 20, 15079-15099. | 4.9 | 49 |
| 285 | Evaluation of the MODIS Collection 6 multilayer cloud detection algorithm through comparisons with CloudSat Cloud Profiling Radar and CALIPSO CALIOP products. Atmospheric Measurement Techniques, 2020, 13, 3263-3275. | 3.1 | 26 |
| 286 | Low-level liquid cloud properties during ORACLES retrieved using airborne polarimetric measurements and a neural network algorithm. Atmospheric Measurement Techniques, 2020, 13, 3447-3470. | 3.1 | 5 |
| 287 | CALIOP V4 cloud thermodynamic phase assignment and the impact of near-nadir viewing angles. Atmospheric Measurement Techniques, 2020, 13, 4539-4563. | 3.1 | 24 |
| 288 | Leveraging spatial textures, through machine learning, to identify aerosols and distinct cloud types from multispectral observations. Atmospheric Measurement Techniques, 2020, 13, 5459-5480. | 3.1 | 14 |
| 289 | Applying deep learning to NASA MODIS data to create a community record of marine low-cloud mesoscale morphology. Atmospheric Measurement Techniques, 2020, 13, 6989-6997. | 3.1 | 9 |
| 290 | Cirrus cloud shape detection by tomographic extinction retrievals from infrared limb emission sounder measurements. Atmospheric Measurement Techniques, 2020, 13, 7025-7045. | 3.1 | 3 |
| 291 | Using CALIOP to estimate cloud-field base height and its uncertainty: the Cloud Base Altitude Spatial Extrapolator (CBASE) algorithm and dataset. Earth System Science Data, 2018, 10, 2279-2293. | 9.9 | 28 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 292 | Cloud&amp;lt;i&amp;gt;_&amp;lt;/i&amp;gt;cci ATSR-2 and AATSR data set version 3: a 17-year climatology of global cloud and radiation properties. Earth System Science Data, 2020, 12, 2121-2135. | 9.9 | 5 |
| 293 | The Aerosol Characterization from Polarimeter and Lidar (ACEPOL) airborne field campaign. Earth System Science Data, 2020, 12, 2183-2208. | 9.9 | 10 |
| 294 | Cloud property datasets retrieved from AVHRR, MODIS, AATSR and MERIS in the framework of the Cloud_cci project. Earth System Science Data, 2017, 9, 881-904. | 9.9 | 75 |
| 295 | Evaluation of satellite retrievals of liquid clouds from the GOES-13 imager and MODIS over the midlatitude North Atlantic during the NAAMES campaign. Atmospheric Measurement Techniques, 2021, 14, 6633-6646. | 3.1 | 16 |
| 296 | Aerosol Loading and Radiation Budget Perturbations in Densely Populated and Highly Polluted Indoâ€Gangetic Plain by COVIDâ€19: Influences on Cloud Properties and Air Temperature. Geophysical Research Letters, 2021, 48, e2021GL093796. | 4.0 | 14 |
| 297 | Temperatureâ€Independent Cloud Phase Retrieval From Shortwaveâ€Infrared Measurement of GCOMâ€C/SGLI With Comparison to CALIPSO. Earth and Space Science, 2021, 8, e2021EA001912. | 2.6 | 5 |
| 298 | A Method for Deriving Relative Humidity From MODIS Data Under All-Sky Conditions. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 8992-9006. | 6.3 | 5 |
| 300 | Comparing three satellite retrieval cloud fraction data over Tibet Plateau. , 2019, , . | | 0 |
| 301 | Realism of Lagrangian Large Eddy Simulations Driven by Reanalysis Meteorology: Tracking a Pocket of Open Cells Under a Biomass Burning Aerosol Layer. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002664. | 3.8 | 6 |
| 302 | Seasonal Dependent Impact of Ice Cloud Longwave Scattering on the Polar Climate. Geophysical Research Letters, 2020, 47, e2020GL090534. | 4.0 | 4 |
| 303 | Airborne Remote Sensing of Arctic Clouds. Springer Series in Light Scattering, 2020, , 39-66. | 0.6 | 0 |
| 305 | The Southern Ocean Radiative Bias, Cloud Compensating Errors, and Equilibrium Climate Sensitivity in CMIP6 Models. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035310. | 3.3 | 23 |
| 306 | Spatiotemporal variations in aerosol optical depth and associated risks for populations in the arid region of Central Asia. Science of the Total Environment, 2022, 816, 151558. | 8.0 | 8 |
| 307 | Using A-Train Observations to Evaluate East Pacific Cloud Occurrence and Radiative Effects in the Community Atmosphere Model. Journal of Climate, 2020, 33, 6187-6203. | 3.2 | 6 |
| 308 | Modeling and simulation techniques of cloud radiation characteristics for space-based remote sensing. , 2020, , . | | 0 |
| 309 | Raindrop size distribution characteristic differences during the dry and wet seasons in South China. Atmospheric Research, 2022, 266, 105947. | 4.1 | 9 |
| 310 | Did dust intrusion and lofting escalate the catastrophic widespread lightning on 16th April 2019, India?. Atmospheric Research, 2022, 266, 105933. | 4.1 | 2 |
| 311 | The first global 883â€‰GHz cloud ice survey: IceCube LevelÂ1 data calibration, processing and analysis. Earth System Science Data, 2021, 13, 5369-5387. | 9.9 | 4 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 312 | Impact of dust-cloud-radiation interactions on surface albedo: a case study of â€˜Tiramisuâ€™ snow in Urumqi, China. Environmental Research Letters, 2022, 17, 015001. | 5.2 | 2 |
| 313 | A large reduction of direct aerosol cooling over Poland in the last decades. International Journal of Climatology, 2022, 42, 4129-4146. | 3.5 | 3 |
| 314 | Modeled and observed properties related to the direct aerosol radiative effect of biomass burning aerosol over the southeastern Atlantic. Atmospheric Chemistry and Physics, 2022, 22, 1-46. | 4.9 | 22 |
| 315 | Potential Link Between Ice Nucleation and Climate Model Spread in Arctic Amplification. Geophysical Research Letters, 2022, 49, . | 4.0 | 9 |
| 316 | Analysis of the MODIS above-cloud aerosol retrieval algorithm using MCARS. Geoscientific Model Development, 2022, 15, 1-14. | 3.6 | 1 |
| 317 | Meteorological Conditions Favorable for Strong Anthropogenic Aerosol Impacts on Clouds. Journal of Geophysical Research D: Atmospheres, 2022, 127, . | 3.3 | 2 |
| 318 | A Multi-Year Study of GOES-13 Droplet Effective Radius Retrievals for Warm Clouds over South America and Southeast Pacific. Atmosphere, 2022, 13, 77. | 2.3 | 0 |
| 319 | Calculating the Climatology and Anomalies of Surface Cloud Radiative Effect Using Cloud Property Histograms and Cloud Radiative Kernels. Advances in Atmospheric Sciences, 2022, 39, 2124-2136. | 4.3 | 4 |
| 320 | Performance of Cloud 3D Solvers in Ice Cloud Shortwave Radiation Closure Over the Equatorial Western Pacific Ocean. Journal of Advances in Modeling Earth Systems, 2022, 14, . | 3.8 | 2 |
| 321 | Opportunistic experiments to constrain aerosol effective radiative forcing. Atmospheric Chemistry and Physics, 2022, 22, 641-674. | 4.9 | 44 |
| 322 | The Earth Model Column Collaboratory (EMC&amp;lt;sup&amp;gt;2&amp;lt;/sup&amp;gt;) v1.1: an open-source ground-based lidar and radar instrument simulator and subcolumn generator for large-scale models. Geoscientific Model Development, 2022, 15, 901-927. | 3.6 | 4 |
| 323 | Cloud Detection and Classification Algorithms for Himawari-8 Imager Measurements Based on Deep Learning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17. | 6.3 | 8 |
| 324 | Diurnal Differences in Tropical Maritime Anvil Cloud Evolution. Journal of Climate, 2022, 35, 1655-1677. | 3.2 | 6 |
| 325 | The Impacts of Immersion Ice Nucleation Parameterizations on Arctic Mixed-Phase Stratiform Cloud Properties and the Arctic Radiation Budget in GEOS-5. Journal of Climate, 2022, 35, 4049-4070. | 3.2 | 1 |
| 326 | Low Cloud Detection in Multilayer Scenes Using Satellite Imagery with Machine Learning Methods. Journal of Atmospheric and Oceanic Technology, 2022, 39, 319-334. | 1.3 | 4 |
| 327 | VELOX â€“ a new thermal infrared imager for airborne remote sensing of cloud and surface properties. Atmospheric Measurement Techniques, 2022, 15, 1491-1509. | 3.1 | 3 |
| 328 | Evaluating the consistency and continuity of pixel-scale cloud property data records from Aqua and SNPP (Suomi National Polar-orbiting Partnership). Atmospheric Measurement Techniques, 2022, 15, 2099-2123. | 3.1 | 3 |
| 329 | The Global Atmosphereâ€“aerosol Model ICONâ€A â€HAM2.3â€"Initial Model Evaluation and Effects of Radiation Balance Tuning on Aerosol Optical Thickness. Journal of Advances in Modeling Earth Systems, 2022, 14, . | 3.8 | 6 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 330 | Observational Constraints on Southern Ocean Cloud-Phase Feedback. Journal of Climate, 2022, 35, 5087-5102. | 3.2 | 4 |
| 331 | Sensitivity studies toward the retrieval of ice crystal habit distributions inside cirrus clouds from upwelling far infrared spectral radiance observations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 282, 108120. | 2.3 | 2 |
| 332 | Effect of Microstructure and Horizontal Inhomogeneity of Broken Cirrus Clouds on Mean Solar Radiative Fluxes in the Visible Wavelength Region: Results of Numerical Simulation. Atmospheric and Oceanic Optics, 2021, 34, 678-688. | 1.3 | 10 |
| 333 | Improved cloud detection for the Aura Microwave Limb Sounder (MLS): training an artificial neural network on colocated MLS and Aqua MODIS data. Atmospheric Measurement Techniques, 2021, 14, 7749-7773. | 3.1 | 3 |
| 334 | Diurnal variation of cloud cover over the Baltic Sea. Oceanologia, 2022, 64, 299-311. | 2.2 | 2 |
| 335 | A characterization of clouds over the Great Barrier Reef and the role of local forcing. International Journal of Climatology, 0, , . | 3.5 | 0 |
| 341 | Understanding the microphysical control and spatial–temporal variability of warm rain probability using CloudSat and MODIS observations. Geophysical Research Letters, 0, , . | 4.0 | 4 |
| 342 | Cloud Morphology Evolution in Arctic Cold–Air Outbreak: Two Cases During COMBLE Period. Journal of Geophysical Research D: Atmospheres, 2022, 127, . | 3.3 | 5 |
| 343 | Analysis of aerosol cloud interactions with a consistent signal of meteorology and other influencing parameters. Atmospheric Research, 2022, 275, 106241. | 4.1 | 3 |
| 344 | Stability-dependent increases in liquid water with droplet number in the Arctic. Atmospheric Chemistry and Physics, 2022, 22, 5743-5756. | 4.9 | 9 |
| 345 | Phytoplankton Impact on Marine Cloud Microphysical Properties Over the Northeast Atlantic Ocean. Journal of Geophysical Research D: Atmospheres, 2022, 127, . | 3.3 | 3 |
| 346 | Retrieval of cloud properties from thermal infrared radiometry using convolutional neural network. Remote Sensing of Environment, 2022, 278, 113079. | 11.0 | 14 |
| 347 | Assessment of Two Stochastic Cloud Subcolumn Generators Using Observed Fields of Vertically Resolved Cloud Extinction. Journal of Atmospheric and Oceanic Technology, 2022, , . | 1.3 | 2 |
| 351 | A Lagrangian analysis of pockets of open cells over the southeastern Pacific. Atmospheric Chemistry and Physics, 2022, 22, 8197-8219. | 4.9 | 2 |
| 352 | Diverse cloud radiative effects and global surface temperature simulations induced by different ice cloud optical property parameterizations. Scientific Reports, 2022, 12, . | 3.3 | 4 |
| 353 | Transmission of Optical Radiation by a Polydisperse Ice Cloud. Russian Physics Journal, 0, , . | 0.4 | 0 |
| 354 | Developing a long-term high-resolution winter fog climatology over south Asia using satellite observations from 2002 to 2020. Remote Sensing of Environment, 2022, 279, 113128. | 11.0 | 7 |
| 355 | Addressing the difficulties in quantifying droplet number response to aerosol from satellite observations. Atmospheric Chemistry and Physics, 2022, 22, 7353-7372. | 4.9 | 9 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 356 | An evaluation of the liquid cloud droplet effective radius derived from MODIS, airborne remote sensing, and in situ measurements from CAMP&amp;lt;sup&amp;gt;2&amp;lt;/sup&amp;gt;Ex. Atmospheric Chemistry and Physics, 2022, 22, 8259-8285. | 4.9 | 7 |
| 357 | An Assessment of Short-term Global and East Asian Local Climate Feedbacks using New Radiative Kernels. Climate Dynamics, 2023, 60, 1329-1349. | 3.8 | 2 |
| 358 | Understanding Errors in Cloud Liquid Water Path Retrievals derived from CloudSat Path Integrated Attenuation. Journal of Applied Meteorology and Climatology, 2022, , . | 1.5 | 0 |
| 359 | The long-distance transmission and scattering characteristic of laser through inhomogeneous cirrus with spherical geometry. Waves in Random and Complex Media, 0, , 1-12. | 2.7 | 1 |
| 360 | Impact of Holuhraun volcano aerosols on clouds in cloud-system-resolving simulations. Atmospheric Chemistry and Physics, 2022, 22, 8457-8472. | 4.9 | 4 |
| 361 | Coupling Warm Rain With an Eddy Diffusivity/Mass Flux Parameterization: 2. Sensitivities and Comparison to Observations. Journal of Advances in Modeling Earth Systems, 2022, 14, . | 3.8 | 4 |
| 362 | The impact of sampling strategy on the cloud droplet number concentration estimated from satellite data. Atmospheric Measurement Techniques, 2022, 15, 3875-3892. | 3.1 | 15 |
| 363 | Decreasing surfaceÂalbedo signifies a growing importance of clouds for Greenland Ice Sheet meltwater production. Nature Communications, 2022, 13, . | 12.8 | 3 |
| 364 | Surface Shortwave Radiative Fluxes Derived from the U.S. Air Force Cloud Depiction Forecast System World-Wide Merged Cloud Analysis. Journal of Hydrometeorology, 2023, 24, 167-181. | 1.9 | 0 |
| 365 | Global reduction in ship-tracks from sulfur regulations for shipping fuel. Science Advances, 2022, 8, . | 10.3 | 13 |
| 366 | Novel Parameterization of Ice Cloud Effective Diameter from Collocated CALIOP-IIR and CloudSat Retrievals. Journal of Applied Meteorology and Climatology, 2022, 61, 891-907. | 1.5 | 1 |
| 367 | Combining Cloud Properties from CALIPSO, CloudSat, and MODIS for Top-of-Atmosphere (TOA) Shortwave Broadband Irradiance Computations: Impact of Cloud Vertical Profiles. Journal of Applied Meteorology and Climatology, 2022, 61, 1449-1471. | 1.5 | 3 |
| 368 | Machine learning reveals climate forcing from aerosols is dominated by increased cloud cover. Nature Geoscience, 2022, 15, 609-614. | 12.9 | 25 |
| 369 | Errors in global cloud climatology due to transect sampling with the CALIPSO satellite lidar mission. Atmospheric Research, 2022, 279, 106379. | 4.1 | 2 |
| 370 | Optimizing modeling windows to better capture the long-term variation of PM2.5 concentrations in China during 2005â€"2019. Science of the Total Environment, 2023, 854, 158624. | 8.0 | 4 |
| 371 | Impact of Rain on Retrieved Warm Cloud Properties Using Visible and Near-Infrared Reflectances Using Markov Chain Monte Carlo Techniques. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10. | 6.3 | 3 |
| 372 | Settings for Spaceborne 3-D Scattering Tomography of Liquid-Phase Clouds by the CloudCT Mission. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16. | 6.3 | 2 |
| 373 | Aerosol-cloud interactions in liquid clouds. , 2022, , 489-544. | | 1 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 374 | Improving the Treatment of Subgrid Cloud Variability in Warm Rain Simulation in CESM2. Journal of Advances in Modeling Earth Systems, 2022, 14, . | 3.8 | 0 |
| 375 | Tangent-Linear and Adjoint Models for the Transfer of Polarized Radiation. Journals of the Atmospheric Sciences, 2023, 80, 73-89. | 1.7 | 1 |
| 376 | Observing short-timescale cloud development to constrain aerosol–cloud interactions. Atmospheric Chemistry and Physics, 2022, 22, 11727-11738. | 4.9 | 2 |
| 377 | Generalization of Atmospheric Nonspherical Particle Size: Interconversions of Size Distributions and Optical Equivalence. Journals of the Atmospheric Sciences, 2022, 79, 3333-3349. | 1.7 | 7 |
| 378 | Robust evidence for reversal of the trend in aerosol effective climate forcing. Atmospheric Chemistry and Physics, 2022, 22, 12221-12239. | 4.9 | 33 |
| 379 | Assessment of polarization sensitivity of Aqua MODIS using co-incident POLDER-3 polarized measurements over marine stratocumulus clouds. , 2022, , . | | 0 |
| 380 | The Earth‐Observing Aqua Satellite Mission: 20 Years and Counting. Earth and Space Science, 2022, 9, . | 2.6 | 4 |
| 381 | Assessment of aerosols over five cities of Angola based on MERRA–2 reanalysis data. Atmospheric Pollution Research, 2022, , 101569. | 3.8 | 1 |
| 382 | Cloud Climatologies from Global Climate Models—A Comparison of CMIP5 and CMIP6 Models with Satellite Data. Journal of Climate, 2023, 36, 281-311. | 3.2 | 4 |
| 383 | In situ and satellite-based estimates of cloud properties and aerosol–cloud interactions over the southeast Atlantic Ocean. Atmospheric Chemistry and Physics, 2022, 22, 12923-12943. | 4.9 | 2 |
| 384 | Ice water path retrievals from Meteosat-9 using quantile regression neural networks. Atmospheric Measurement Techniques, 2022, 15, 5701-5717. | 3.1 | 4 |
| 385 | A novel approach to solve forward/inverse problems in remote sensing applications. Frontiers in Remote Sensing, 0, 3, . | 3.5 | 1 |
| 386 | Impact of Cloud Condensation Nuclei Reduction on Cloud Characteristics and Solar Radiation during COVID-19 Lockdown 2020 in Moscow. Atmosphere, 2022, 13, 1710. | 2.3 | 4 |
| 387 | The Role of Cloud in the Transportation of Dust into Basin Area: A Case Study in Sichuan Basin, Southwesten China. Atmosphere, 2022, 13, 1668. | 2.3 | 1 |
| 388 | A Microphysics-Scheme-Consistent Snow Optical Parameterization for the Community Radiative Transfer Model. Monthly Weather Review, 2023, 151, 383-402. | 1.4 | 0 |
| 389 | A Framework for Satellite-Based 3D Cloud Data: An Overview of the VIIRS Cloud Base Height Retrieval and User Engagement for Aviation Applications. Remote Sensing, 2022, 14, 5524. | 4.0 | 5 |
| 390 | Precipitable water vapor fusion of MODIS and ERA5 based on convolutional neural network. GPS Solutions, 2023, 27, . | 4.3 | 11 |
| 391 | Assessing effective radiative forcing from aerosol–cloud interactions over the global ocean. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 7.1 | 15 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 392 | Southern Ocean cloud and shortwave radiation biases in a nudged climate model simulation: does the model ever get it right?. Atmospheric Chemistry and Physics, 2022, 22, 14603-14630. | 4.9 | 6 |
| 393 | Aerosol effects on clouds are concealed by natural cloud heterogeneity and satellite retrieval errors. Nature Communications, 2022, 13, . | 12.8 | 6 |
| 394 | Increased aerosols can reverse Twomey effect in water clouds through radiative pathway. Scientific Reports, 2022, 12, . | 3.3 | 5 |
| 395 | From a Love of Nature to a World of Earth Observations. Perspectives of Earth and Space Scientists, 2022, 3, . | 0.3 | 1 |
| 396 | Ice crystal characterization in cirrus clouds III: retrieval of ice crystal shape and roughness from observations of halo displays. Atmospheric Chemistry and Physics, 2022, 22, 15179-15205. | 4.9 | 2 |
| 397 | VDAM. , 2022, , . | | 1 |
| 398 | Consistency test of precipitating ice cloud retrieval properties obtained from the observations of different instruments operating at Dome C (Antarctica). Atmospheric Measurement Techniques, 2022, 15, 7235-7258. | 3.1 | 6 |
| 399 | Detecting the Phase of Marine Boundary Layer Clouds: Some Implications for Cloud Albedo. Journal of Geophysical Research D: Atmospheres, 2022, 127, . | 3.3 | 0 |
| 400 | Understanding internal cluster variability through sub–cluster metric analysis in a geophysical context. Earth and Space Science, 0, , . | 2.6 | 0 |
| 401 | An Assessment of the Influences of Clouds on the Solar Photovoltaic Potential over China. Remote Sensing, 2023, 15, 258. | 4.0 | 1 |
| 402 | Emission Reductions Significantly Reduce the Hemispheric Contrast in Cloud Droplet Number Concentration in Recent Two Decades. Journal of Geophysical Research D: Atmospheres, 2023, 128, . | 3.3 | 1 |
| 403 | A multispectral method for retrieving overlapping cloud top heights from passive radiometers. Remote Sensing of Environment, 2023, 286, 113425. | 11.0 | 3 |
| 404 | Retrieval of terahertz ice cloud properties from airborne measurements based on the irregularly shaped Voronoi ice scattering models. Atmospheric Measurement Techniques, 2023, 16, 331-353. | 3.1 | 4 |
| 405 | Quantification of Global Cloud Properties with Use of Spherical Harmonic Functions. Earth and Space Science, 0, , . | 2.6 | 0 |
| 406 | Retrieving Vertical Cloud Radar Reflectivity from MODIS Cloud Products with CGAN: An Evaluation for Different Cloud Types and Latitudes. Remote Sensing, 2023, 15, 816. | 4.0 | 4 |
| 407 | High-spatial-resolution retrieval of cloud droplet size distribution from polarized observations of the cloudbow. Atmospheric Measurement Techniques, 2023, 16, 645-667. | 3.1 | 2 |
| 408 | Retrieval of cloud microphysical properties from Himawari-8/AHI infrared channels and its application in surface shortwave downward radiation estimation in the sun glint region. Remote Sensing of Environment, 2023, 290, 113548. | 11.0 | 14 |
| 409 | Climatology, trend of aerosol-cloud parameters and their correlation over the Northern Indian Ocean. Geoscience Frontiers, 2023, 14, 101563. | 8.4 | 4 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 412 | Upscaling of longwave downward radiation from instantaneous to any temporal scale: Algorithms, validation, and comparison. International Journal of Applied Earth Observation and Geoinformation, 2023, 117, 103196. | 1.9 | 0 |
| 413 | Estimating the Impact of Assimilating Cirrus Cloud–Contaminated Hyperspectral Infrared Radiances for Numerical Weather Prediction. Journal of Atmospheric and Oceanic Technology, 2023, 40, 327-340. | 1.3 | 0 |
| 414 | Time-Dependent Systematic Biases in Inferring Ice Cloud Properties from Geostationary Satellite Observations. Remote Sensing, 2023, 15, 855. | 4.0 | 2 |
| 415 | Marine Warm Cloud Fraction Decreases Monotonically With Rain Rate for Fixed Vertical and Horizontal Cloud Sizes. Geophysical Research Letters, 2023, 50, . | 4.0 | 1 |
| 416 | A cloud optical and microphysical property product for the advanced geosynchronous radiation imager onboard China's Fengyun-4 satellites: The first version. Atmospheric and Oceanic Science Letters, 2023, 16, 100337. | 1.3 | 2 |
| 417 | Cloud-Target Calibration for Fengyun-3D MERSI-II Solar Reflectance Bands: Model Development and Instrument Stability. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-13. | 6.3 | 2 |
| 418 | Comparison of Cloud Properties between SGLI Aboard GCOM-C Satellite and MODIS Aboard Terra Satellite. Remote Sensing, 2023, 15, 1075. | 4.0 | 1 |
| 419 | Assessing the Aerosols, Clouds and Their Relationship Over the Northern Bay of Bengal Using a Global Climate Model. Earth and Space Science, 2023, 10, . | 2.6 | 3 |
| 420 | The CHROMA cloud-top pressure retrieval algorithm for the Plankton, Aerosol, Cloud, ocean Ecosystem (PACE) satellite mission. Atmospheric Measurement Techniques, 2023, 16, 969-996. | 3.1 | 1 |
| 421 | Establishment of an analytical model for remote sensing of typical stratocumulus cloud profiles under various precipitation and entrainment conditions. Atmospheric Chemistry and Physics, 2023, 23, 2729-2746. | 4.9 | 0 |
| 422 | Assessment on the Diurnal Cycle of Cloud Covers of Fengyun-4A Geostationary Satellite Based on the Manual Observation Data in China. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-18. | 6.3 | 0 |
| 423 | SCIATRAN software package (V4.6): update and further development of aerosol, clouds, surface reflectance databases and models. Geoscientific Model Development, 2023, 16, 1511-1536. | 3.6 | 5 |
| 424 | On the Temperature Dependence of the Cloud Ice Particle Effective Radius—A Satellite Perspective. Geophysical Research Letters, 2023, 50, . | 4.0 | 1 |
| 425 | Cloud Top Thermodynamic Phase from Synergistic Lidar-Radar Cloud Products from Polar Orbiting Satellites: Implications for Observations from Geostationary Satellites. Remote Sensing, 2023, 15, 1742. | 4.0 | 0 |
| 426 | 卷积神经网络反演含气溶胶的薄云光学厚度研究. Guangxue Xuebao/Acta Optica Sinica, 2023, 43, 0612008. | 1.2 | 0 |
| 427 | Satellite observations of smoke–cloud–radiation interactions over the Amazon rainforest. Atmospheric Chemistry and Physics, 2023, 23, 4595-4616. | 4.9 | 0 |
| 428 | A new bottom-of-atmosphere (BOA) radiance-based hybrid method for estimating clear-sky surface longwave upwelling radiation from MODIS data. IEEE Transactions on Geoscience and Remote Sensing, 2023, , 1-1. | 6.3 | 1 |
| 429 | Aerosol demasking enhances climate warming over South Asia. Npj Climate and Atmospheric Science, 2023, 6, . | 6.8 | 1 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 430 | The EnMAP imaging spectroscopy mission towards operations. Remote Sensing of Environment, 2023, 294, 113632. | 11.0 | 18 |
| 431 | Global Cloudiness and Cloud Top Information from AVHRR in the 42-Year CLARA-A3 Climate Data Record Covering the Period 1979–2020. Remote Sensing, 2023, 15, 3044. | 4.0 | 3 |
| 432 | Updated observations of clouds by MODIS for global model assessment. Earth System Science Data, 2023, 15, 2483-2497. | 9.9 | 3 |
| 433 | Fusion of MISR Stereo Cloud Heights and Terra–MODIS Thermal Infrared Radiances to Estimate Two–Layered Cloud Properties. Journal of Geophysical Research D: Atmospheres, 2023, 128, . | 3.3 | 2 |
| 434 | Analysis of the Observation Results for Preferentially Oriented Particles in High-Level Clouds According to the EARLINET Lidar Network and MODIS Data. Atmosphere, 2023, 14, 1018. | 2.3 | 0 |
| 435 | A Machine Learning-Based Multiple Cloud Vertical Structure Parameter Prediction Algorithm Only Using OCO-2 Oxygen A-Band Measurements. Remote Sensing, 2023, 15, 3142. | 4.0 | 0 |
| 436 | Cloud type frequency over <scp>Poland</scp> (2003–2021) revealed by independent satellite–based (<scp>MODIS</scp>) and surface–based (<scp>SYNOP</scp>) observations. International Journal of Climatology, 0, , . | 3.5 | 0 |
| 437 | Availability, outage, and capacity of spatially correlated, Australasian free-space optical networks. Journal of Optical Communications and Networking, 2023, 15, 415. | 4.8 | 1 |
| 438 | Liquid cloud optical property retrieval and associated uncertainties using multi-angular and bispectral measurements of the airborne radiometer OSIRIS. Atmospheric Measurement Techniques, 2023, 16, 3221-3243. | 3.1 | 1 |
| 439 | Introduction to EarthCARE synthetic data using a global storm-resolving simulation. Atmospheric Measurement Techniques, 2023, 16, 3331-3344. | 3.1 | 2 |
| 440 | QBO deepens MJO convection. Nature Communications, 2023, 14, . | 12.8 | 0 |
| 441 | A satellite-observation based study on responses of clouds to aerosols over South Asia during IOD events of south-west monsoon season. Atmospheric Pollution Research, 2023, 14, 101861. | 3.8 | 0 |
| 442 | Detection of large-scale cloud microphysical changes within a major shipping corridor after implementation of the International Maritime Organization 2020 fuel sulfur regulations. Atmospheric Chemistry and Physics, 2023, 23, 8259-8269. | 4.9 | 7 |
| 443 | Nonlinearity of the cloud response postpones climate penalty of mitigating air pollution in polluted regions. Nature Climate Change, 2023, 13, 943-950. | 18.8 | 1 |
| 444 | Investigating the development of clouds within marine cold-air outbreaks. Atmospheric Chemistry and Physics, 2023, 23, 9365-9383. | 4.9 | 2 |
| 445 | Estimation of 1‰km downwelling shortwave radiation over the Tibetan Plateau under all-sky conditions. Atmospheric Chemistry and Physics, 2023, 23, 9265-9285. | 4.9 | 0 |
| 446 | Decadal Stability and Trends in the Global Cloud Amount and Cloud Top Temperature in the Satellite-Based Climate Data Records. Remote Sensing, 2023, 15, 3819. | 4.0 | 1 |
| 447 | Aerosol processes perturb cloud trends over Bay of Bengal: observational evidence. Npj Climate and Atmospheric Science, 2023, 6, . | 6.8 | 0 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 448 | A Refined Understanding of the Ice Cloud Longwave Scattering Effects in Climate Model. Journal of Advances in Modeling Earth Systems, 2023, 15, . | 3.8 | 1 |
| 449 | Spatial Aggregation of Satellite Observations Leads to an Overestimation of the Radiative Forcing due to Aerosolâ€Cloud Interactions. Geophysical Research Letters, 2023, 50, . | 4.0 | 2 |
| 450 | All-sky surface and top-of-atmosphere shortwave radiation components estimation: Surface shortwave radiation, PAR, UV radiation, and TOA albedo. Remote Sensing of Environment, 2023, 298, 113830. | 11.0 | 1 |
| 451 | Obtaining Cloud Base Height and Phase From Thermal Infrared Radiometry Using a Deep Learning Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-14. | 6.3 | 0 |
| 452 | Global observations of aerosol indirect effects from marine liquid clouds. Atmospheric Chemistry and Physics, 2023, 23, 13125-13141. | 4.9 | 1 |
| 453 | On the Consistency of Ice Cloud Optical Models for Spaceborne Remote Sensing Applications and Broadband Radiative Transfer Simulations. Journal of Geophysical Research D: Atmospheres, 2023, 128, . | 3.3 | 0 |
| 454 | ä»è¢««åŠ¨æ¯Ÿè½½å§æ°"æŽ¢æµ‹è½½è•æ€§èƒ½å¯æ¯æ„Žå†æž• Guangxue Xuebao/Acta Optica Sinica, 2023, 43, 1289990. | 1.2 | 0 |
| 455 | Observational evidence of strong forcing from aerosol effect on low cloud coverage. Science Advances, 2023, 9, . | 10.3 | 0 |
| 456 | Robust Susceptibility of Cloud Cover and Radiative Effects to Biases in Retrieved Droplet Concentrations. Journal of Geophysical Research D: Atmospheres, 2023, 128, . | 3.3 | 0 |
| 457 | Enhanced Cloud Top Longwave Radiative Cooling Due To the Effect of Horizontal Radiative Transfer in the Stratocumulus to Trade Cumulus Transition Regime. Geophysical Research Letters, 2023, 50, . | 4.0 | 0 |
| 458 | Cloud Characteristics and Their Effects on Solar Irradiance According to the ICON Model, CLOUDNET and BSRN Observations. Atmosphere, 2023, 14, 1769. | 2.3 | 0 |
| 459 | Cloud detection in East Asian urban areas in VIIRS day/night band by texture analysis. Journal of the Japan Society of Photogrammetry and Remote Sensing, 2022, 61, 317-331. | 0.0 | 0 |
| 460 | CLARA-A3: The third edition of the AVHRR-based CM SAF climate data record on clouds, radiation and surface albedo covering the period 1979 to 2023. Earth System Science Data, 2023, 15, 4901-4926. | 9.9 | 3 |
| 461 | On the Scattering-Angle Dependence of the Spectral Consistency of Ice Cloud Optical Thickness Retrievals Based on Geostationary Satellite Observations. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-12. | 6.3 | 0 |
| 462 | Sensitivity of cirrus and contrail radiative effect on cloud microphysical and environmental parameters. Atmospheric Chemistry and Physics, 2023, 23, 14003-14037. | 4.9 | 0 |
| 463 | PEREGRINATIONS ON THE STUDY OF THE OPTICAL PROPERTIES OF NONSPHERICAL PARTICLES. Texas Journal of Science, 2023, 75, . | 0.2 | 0 |
| 464 | Cloud climatology of northwestern Mexico based on MODIS data. European Journal of Remote Sensing, 2023, 56, . | 3.5 | 1 |
| 465 | CLAAS-3: the third edition of the CM SAF cloud data record based on SEVIRI observations. Earth System Science Data, 2023, 15, 5153-5170. | 9.9 | 0 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 466 | Comparing ground-based and satellite retrievals of cloud fraction over the Amazon. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 467 | Aerosol Effects on Water Cloud Properties in Different Atmospheric Regimes. Journal of Geophysical Research D: Atmospheres, 2023, 128, . | 3.3 | 0 |
| 468 | Quantifying the dependence of drop spectrum width on cloud drop number concentration for cloud remote sensing. Atmospheric Chemistry and Physics, 2023, 23, 14293-14305. | 4.9 | 0 |
| 469 | Variability and properties of liquid-dominated clouds over the ice-free and sea-ice-covered Arctic Ocean. Atmospheric Chemistry and Physics, 2023, 23, 15289-15304. | 4.9 | 0 |
| 470 | The sensitivity of Southern Ocean atmospheric dimethyl sulfide (DMS) to modeled oceanic DMS concentrations and emissions. Atmospheric Chemistry and Physics, 2023, 23, 15181-15196. | 4.9 | 0 |
| 473 | Retrieving Cloud Sensitivity to Aerosol Using Ship Emissions in Overcast Conditions. Geophysical Research Letters, 2023, 50, . | 4.0 | 0 |
| 474 | A hybrid cloud detection and cloud phase classification algorithm using classic threshold-based tests and extra randomized tree model. Remote Sensing of Environment, 2024, 302, 113957. | 11.0 | 0 |
| 475 | Machine Learning Approach to Investigating the Relative Importance of Meteorological and Aerosol-Related Parameters in Determining Cloud Microphysical Properties. Tellus, Series B: Chemical and Physical Meteorology, 2024, 76, . | 1.6 | 0 |
| 476 | Cloud Top Pressure Retrieval Using Polarized and Oxygen A-band Measurements from GF5 and PARASOL Satellites. Advances in Atmospheric Sciences, 2024, 41, 680-700. | 4.3 | 0 |
| 478 | Cloud optical and physical properties retrieval from EarthCARE multi-spectral imager: the M-COP products. Atmospheric Measurement Techniques, 2024, 17, 261-276. | 3.1 | 0 |
| 479 | Cloud-Base Height Retrieval from MODIS Satellite Data Based on Self-Organizing Neural Networks. Atmospheric and Oceanic Optics, 2023, 36, 723-734. | 1.3 | 0 |
| 480 | Satellite retrievals improved by advanced atmospheric modelling: The S3COM algorithm. AIP Conference Proceedings, 2024, , . | 0.4 | 0 |
| 481 | DRLO: Deep Representation Learning for Large Scale Off-track Satellite Remote Sensing Data. , 2023, , . | | 0 |
| 482 | Evaluating Cloud Feedback Components in Observations and Their Representation in Climate Models. Journal of Geophysical Research D: Atmospheres, 2024, 129, . | 3.3 | 0 |
| 483 | Satellites and Satellite Remote Sensing | Remote Sensing: Cloud Properties. , 2024, , . | | 0 |
| 484 | Artificial intelligence (AI)-derived 3D cloud tomography from geostationary 2D satellite data. Atmospheric Measurement Techniques, 2024, 17, 961-978. | 3.1 | 0 |
| 485 | Approximation of a Convective-Event-Monitoring System Using GOES-R Data and Ensemble ML Models. Remote Sensing, 2024, 16, 675. | 4.0 | 0 |
| 486 | Assessment of Dust Size Retrievals Based on AERONET: A Case Study of Radiative Closure From Visible–Near–Infrared to Thermal Infrared. Geophysical Research Letters, 2024, 51, . | 4.0 | 0 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------| 
| 487 | Lessons Learned from the Updated GEWEX Cloud Assessment Database. Surveys in Geophysics, 0, , . | 4.6 | 0 |
| 488 | Cloud Characteristics during Intense Cold Air Outbreaks over the Barents Sea Based on Satellite Data. Atmosphere, 2024, 15, 317. | 2.3 | 0 |
| 489 | Influence of cloud retrieval errors due to three-dimensional radiative effects on calculations of broadband shortwave cloud radiative effect. Atmospheric Chemistry and Physics, 2024, 24, 3093-3114. | 4.9 | 0 |