# W Paul Menzel

List of Publications by Year
in descending order



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|---|---|---|---|
| 159 papers | 13,016 citations | 53939 47 h-index | 26792 111 g-index |
| 161 all docs | 161 docs citations | 161 times ranked | 8346 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Estimate of daytime single-layer cloud base height from advanced baseline imager measurements. Remote Sensing of Environment, 2022, 274, 112970. | 4.6 | 13 |
| 2 | The Influence of Subâ€Footprint Cloudiness on Threeâ€Dimensional Horizontal Wind From Geostationary Hyperspectral Infrared Sounder Observations. Geophysical Research Letters, 2022, 49, . | 1.5 | 3 |
| 3 | Improvement in tropospheric moisture retrievals from VIIRS through the use of infrared absorption bands constructed from VIIRS and CrIS data fusion. Atmospheric Measurement Techniques, 2021, 14, 1191-1203. | 1.2 | 2 |
| 4 | Changes in HIRS Detection of Cloud over Australia from 1985 to 2001. Remote Sensing, 2021, 13, 917. | 1.8 | 2 |
| 5 | Fourâ€Dimensional Wind Fields From Geostationary Hyperspectral Infrared Sounder Radiance Measurements With High Temporal Resolution. Geophysical Research Letters, 2021, 48, e2021GL093794. | 1.5 | 25 |
| 6 | Can Current Hyperspectral Infrared Sounders Capture the Small Scale Atmospheric Water Vapor Spatial Variations?. Geophysical Research Letters, 2021, 48, e2021GL095825. | 1.5 | 5 |
| 7 | History of Geostationary Weather Satellites. , 2020, , 5-11. | | 5 |
| 8 | Retrieval of cloud top properties from advanced geostationary satellite imager measurements based on machine learning algorithms. Remote Sensing of Environment, 2020, 239, 111616. | 4.6 | 64 |
| 9 | Improving the Understanding of CrIS Full Spectral Resolution Nonlocal Thermodynamic Equilibrium Radiances Using Spectral Correlation. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032710. | 1.2 | 4 |
| 10 | Global Climate. Bulletin of the American Meteorological Society, 2020, 101, S9-S128. | 1.7 | 61 |
| 11 | Improvement in cloud retrievals from VIIRS through the use of infrared absorption channels constructed from VIIRS+CrIS data fusion. Atmospheric Measurement Techniques, 2020, 13, 4035-4049. | 1.2 | 5 |
| 12 | Approach to enhance trace gas determinations through multi-satellite data fusion. Journal of Applied Remote Sensing, 2020, 14, . | 0.6 | 2 |
| 13 | Low earth orbit sounder retrieval products at geostationary earth orbit spatial and temporal scales. Journal of Applied Remote Sensing, 2020, 14, . | 0.6 | 2 |
| 14 | Characteristics of Satellite Sampling Errors in Total Precipitable Water from SSMIS, HIRS, and COSMIC Observations. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6966-6981. | 1.2 | 14 |
| 15 | Observed HIRS and MODIS High-Cloud Frequencies in the 2000s. Journal of Applied Meteorology and Climatology, 2019, 58, 2469-2478. | 0.6 | 3 |
| 16 | Imager and sounder data fusion to generate sounder retrieval products at an improved spatial and temporal resolution. Journal of Applied Remote Sensing, 2019, 13, 1. | 0.6 | 5 |
| 17 | Enhancing the Fast Radiative Transfer Model for FengYunâ€4 GIIRS by Using Local Training Profiles. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,583. | 1.2 | 34 |
| 18 | Intercomparison Between VIIRS and CrIS by Taking Into Account the CrIS Subpixel Cloudiness and Viewing Geometry. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5335-5345. | 1.2 | 8 |

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| 19 | Satellite-Based Atmospheric Infrared Sounder Development and Applications. Bulletin of the American Meteorological Society, 2018, 99, 583-603. | 1.7 | 124 |
| 20 | Fusion of satellite-based imager and sounder data to construct supplementary high spatial resolution narrowband IR radiances. Journal of Applied Remote Sensing, 2017, 11, 1. | 0.6 | 10 |
| 21 | Improvements to Terra MODIS L1B, L2, and L3 science products through using crosstalk corrected L1B radiances. , 2017, , . | | 9 |
| 22 | Mathematical aspects in the meteorological interpretation of satellite hyperspectral infrared measurements part II: estimates of the cloud absorption vertical profile of Hurricane Ioke on 28 August 2006. International Journal of Remote Sensing, 2017, 38, 57-79. | 1.3 | 0 |
| 23 | HYDRA2: A Multispectral Data Analysis Toolkit for Sensors on Suomi-NPP and Other Current Satellite Platforms. Bulletin of the American Meteorological Society, 2016, 97, 1283-1294. | 1.7 | 1 |
| 24 | Mathematical aspects of the meteorological interpretation of satellite hyperspectral infrared measurements part I: statement of the inverse problem for estimation of the cloud absorption vertical profile. International Journal of Remote Sensing, 2016, 37, 1601-1619. | 1.3 | 1 |
| 25 | Reprocessing of HIRS Satellite Measurements from 1980 to 2015: Development toward a Consistent Decadal Cloud Record. Journal of Applied Meteorology and Climatology, 2016, 55, 2397-2410. | 0.6 | 17 |
| 26 | Using SEVIRI fire observations to drive smoke plumes in the CMAQ air quality model: a case study over Antalya in 2008. Atmospheric Chemistry and Physics, 2015, 15, 8539-8558. | 1.9 | 20 |
| 27 | A Look at the Evolution of Meteorological Satellites: Advancing Capabilities and Meeting User Requirements. Weather, Climate, and Society, 2015, 7, 309-320. | 0.5 | 13 |
| 28 | Cloud Detection of MODIS Multispectral Images. Journal of Atmospheric and Oceanic Technology, 2014, 31, 347-365. | 0.5 | 15 |
| 29 | Review of Terra MODIS thermal emissive band L1B radiometric performance. Proceedings of SPIE, 2014, , . | 0.8 | 2 |
| 30 | Agricultural policy effects on land cover and land use over 30 years in Tartous, Syria, as seen in Landsat imagery. Journal of Applied Remote Sensing, 2014, 8, 083506. | 0.6 | 5 |
| 31 | Height Assignment Improvement in Kalpana-1 Atmospheric Motion Vectors. Journal of the Indian Society of Remote Sensing, 2014, 42, 679-687. | 1.2 | 15 |
| 32 | Very high cloud detection in more than two decades of HIRS data. Journal of Geophysical Research D: Atmospheres, 2013, 118, 3278-3284. | 1.2 | 5 |
| 33 | Spatial and Temporal Distribution of Clouds Observed by MODIS Onboard the Terra and Aqua Satellites. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3826-3852. | 2.7 | 441 |
| 34 | Comparing Ship-Track Droplet Sizes Inferred from Terra and Aqua MODIS Data. Journal of Applied Meteorology and Climatology, 2013, 52, 230-241. | 0.6 | 2 |
| 35 | Impact of the Aqua MODIS Band 6 Restoration on Cloud/Snow Discrimination. Journal of Atmospheric and Oceanic Technology, 2013, 30, 2712-2719. | 0.5 | 6 |
| 36 | A Uniform Spaceâ€"Time Gridding Algorithm for Comparison of Satellite Data Products: Characterization and Sensitivity Study. Journal of Applied Meteorology and Climatology, 2013, 52, 255-268. | 0.6 | 8 |

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| 37 | Statistical estimation of a 13.3ÂÎ¼m Visible Infrared Imaging Radiometer Suite channel using multisensor data fusion. Journal of Applied Remote Sensing, 2013, 7, 073473. | 0.6 | 5 |
| 38 | Assessment of Global Cloud Datasets from Satellites: Project and Database Initiated by the GEWEX Radiation Panel. Bulletin of the American Meteorological Society, 2013, 94, 1031-1049. | 1.7 | 437 |
| 39 | Intersatellite calibration of NOAA HIRS CO<sub>2</sub> channels for climate studies. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5190-5203. | 1.2 | 21 |
| 40 | An Approach for Improving Cirrus Cloud-Top Pressure/Height Estimation by Merging High-Spatial-Resolution Infrared-Window Imager Data with High-Spectral-Resolution Sounder Data. Journal of Applied Meteorology and Climatology, 2012, 51, 1477-1488. | 0.6 | 5 |
| 41 | MODIS Cloud-Top Property Refinements for Collection 6. Journal of Applied Meteorology and Climatology, 2012, 51, 1145-1163. | 0.6 | 192 |
| 42 | Determining diurnal variations of land surface emissivity from geostationary satellites. Journal of Geophysical Research, 2012, 117, . | 3.3 | 35 |
| 43 | Improved Profile and Cloud Top Height Retrieval by Using Dual Regression on High-Spectral Resolution Measurements. , 2011, , . | | 7 |
| 44 | Merging High Spectral Resolution Sounder Data with High Spatial Resolution Imager Data to infer Global Cloud Cover Properties. , 2011, , . | | 0 |
| 45 | Sensitivity of Monthly Cloud Statistics to Space and Time Considerations. , 2011, , . | | 0 |
| 46 | Detection of multi-layer and vertically-extended clouds using A-train sensors. Atmospheric Measurement Techniques, 2010, 3, 233-247. | 1.2 | 46 |
| 47 | Geometric Cloud Top Height assignment by geosynchronous meteorological satellite images. , 2009, , . | | 0 |
| 48 | Inferring Convective Weather Characteristics with Geostationary High Spectral Resolution IR Window Measurements: A Look into the Future. Journal of Atmospheric and Oceanic Technology, 2009, 26, 1527-1541. | 0.5 | 15 |
| 49 | Intercalibration of Broadband Geostationary Imagers Using AIRS. Journal of Atmospheric and Oceanic Technology, 2009, 26, 746-758. | 0.5 | 42 |
| 50 | Forecasting and nowcasting improvement in cloudy regions with high temporal GOES sounder infrared radiance measurements. Journal of Geophysical Research, 2009, 114, . | 3.3 | 20 |
| 51 | Satellite Meteorology. Bulletin of the American Meteorological Society, 2009, 90, 1435-1436. | 1.7 | 1 |
| 52 | GOES sounding improvement and applications to severe storm nowcasting. Geophysical Research Letters, 2008, 35, . | 1.5 | 31 |
| 53 | Global characterization of cirrus clouds using CALIPSO data. Journal of Geophysical Research, 2008, 113, . | 3.3 | 115 |
| 54 | MODIS Global Cloud-Top Pressure and Amount Estimation: Algorithm Description and Results. Journal of Applied Meteorology and Climatology, 2008, 47, 1175-1198. | 0.6 | 256 |

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| 57 | Introducing HYDRA: A Multispectral Data Analysis Toolkit. Bulletin of the American Meteorological Society, 2007, 88, 159-166. | 1.7 | 4 |
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| 60 | Comparison between current and future environmental satellite imagers on cloud classification using MODIS. Remote Sensing of Environment, 2007, 108, 311-326. | 4.6 | 29 |
| 61 | Development and Demonstration of Hyperspectral Infrared Only Sounding Retrieval. , 2007, , . | | 1 |
| 62 | Impact of point spread function on infrared radiances from geostationary Satellites. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 2176-2183. | 2.7 | 19 |
| 63 | Wedge-filter Imaging Sounder for Humidity (WISH): a practical NPOESS P3I and geostationary Earth orbit high-spatial resolution sensor. , 2005, 5655, 33. | | 1 |
| 64 | Retrieval of Cloud Microphysical Properties from MODIS and AIRS. Journal of Applied Meteorology and Climatology, 2005, 44, 1526-1543. | 1.7 | 71 |
| 65 | A Four-Season Impact Study of Rawinsonde, GOES, and POES Data in the Eta Data Assimilation System. Part II: Contribution of the Components. Weather and Forecasting, 2005, 20, 178-198. | 0.5 | 22 |
| 66 | Global cloud cover trends inferred from two decades of HIRS observations. , 2005, 5658, 283. | | 1 |
| 67 | Using ABI to help HES for cloud property and atmospheric sounding retrieval. , 2005, , . | | 0 |
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| 70 | Intercomparison of multiple years of MODIS, MISR and radar cloud-top heights. Annales Geophysicae, 2005, 23, 2415-2424. | 0.6 | 42 |
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| 73 | Possible scanning scenarios of the GOES-R HES (Hyperspectral Environmental Suite). , 2005, , . | | 1 |
| 74 | Recent Innovations in Deriving Tropospheric Winds from Meteorological Satellites. Bulletin of the American Meteorological Society, 2005, 86, 205-224. | 1.7 | 179 |
| 75 | Vertical resolution study on the GOES-R Hyperspectral Environmental Suite (HES). , 2005, , . | | 1 |
| 76 | Evaluation of AIRS cloud properties using MPACE data. Geophysical Research Letters, 2005, 32, . | 1.5 | 4 |
| 77 | Nighttime polar cloud detection with MODIS. Remote Sensing of Environment, 2004, 92, 181-194. | 4.6 | 99 |
| 78 | AIRS Subpixel Cloud Characterization Using MODIS Cloud Products. Journal of Applied Meteorology and Climatology, 2004, 43, 1083-1094. | 1.7 | 79 |
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| 81 | Evaluation of MODIS thermal IR band L1B radiances during SAFARI 2000. Journal of Geophysical Research, 2003, 108, n/a-n/a. | 3.3 | 24 |
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| 84 | NPOESS Preparatory Project (NPP) instrument characterization and calibration, and products validation: an integrated strategy in preparation for NPOESS new generation of environmental satellites. , 2003, , . | | 0 |
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| 88 | Operational retrieval of atmospheric temperature, moisture, and ozone from MODIS infrared radiances. , 2003, , . | | 6 |
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| 92 | Mathematical Aspects of the Meteorological Processing of Infrared Spectral Measurements from the GOES Sounder. Part III: Emissivity Estimation in Solving the Inverse Problem of Atmospheric Remote Sensing. Journal of Applied Meteorology and Climatology, 2003, 42, 1533-1546. | 1.7 | 0 |
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| 99 | An Impact Study of Five Remotely Sensed and Five In Situ Data Types in the Eta Data Assimilation System. Weather and Forecasting, 2002, 17, 263-285. | 0.5 | 27 |
| 100 | <title>Simulation study combining radio occultation data and IR/MW radiances to derive temperature and moisture profiles</title>. , 2002, , . | | 0 |
| 101 | Validation and Use of GOES Sounder Moisture Information. Weather and Forecasting, 2002, 17, 139-154. | 0.5 | 48 |
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| 106 | Estimation of Total Atmospheric Ozone from GOES Sounder Radiances with High Temporal Resolution. Journal of Atmospheric and Oceanic Technology, 2001, 18, 157-168. | 0.5 | 28 |
| 107 | Mathematical Aspects in Meteorological Processing of Infrared Spectral Measurements from the GOES Sounder. Part I: Constructing the Measurement Estimate Using Spatial Smoothing. Journal of Applied Meteorology and Climatology, 2001, 40, 556-567. | 1.7 | 6 |
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| 110 | Cloud Tracking with Satellite Imagery: From the Pioneering Work of Ted Fujita to the Present. Bulletin of the American Meteorological Society, 2001, 82, 33-47. | 1.7 | 112 |
| 111 | A Case Study of the Sensitivity of the Eta Data Assimilation System. Weather and Forecasting, 2000, 15, 603-621. | 0.5 | 33 |
| 112 | The Effects of Surface Reflection on Estimating the Vertical Temperatureâ€“Humidity Distribution from Spectral Infrared Measurements. Journal of Applied Meteorology and Climatology, 2000, 39, 3-14. | 1.7 | 23 |
| 113 | Model Calculations and Interferometer Measurements of Ice-Cloud Characteristics. Journal of Applied Meteorology and Climatology, 2000, 39, 634-644. | 1.7 | 30 |
| 114 | Global Soundings of the Atmosphere from ATOVS Measurements: The Algorithm and Validation. Journal of Applied Meteorology and Climatology, 2000, 39, 1248-1268. | 1.7 | 173 |
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| 117 | A comparison of cloud top heights computed from airborne lidar and MAS radiance data using CO2slicing. Journal of Geophysical Research, 1999, 104, 24547-24555. | 3.3 | 61 |
| 118 | Estimation of Sea Surface Temperatures UsingGOES-8/9Radiance Measurements. Bulletin of the American Meteorological Society, 1999, 80, 1127-1138. | 1.7 | 73 |
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| 121 | Discriminating clear sky from clouds with MODIS. Journal of Geophysical Research, 1998, 103, 32141-32157. | 3.3 | 1,002 |
| 122 | Retrieval of effective microphysical properties of clouds: A wave cloud case study. Geophysical Research Letters, 1998, 25, 1121-1124. | 1.5 | 19 |
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| 125 | The Operational GOES Infrared Rainfall Estimation Technique. Bulletin of the American Meteorological Society, 1998, 79, 1883-1898. | 1.7 | 302 |
| 126 | Retrieval of total atmospheric ozone from GOES sounder radiance measurements with high spatial and temporal resolution. , 1998, 3501, 291. | | 2 |

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| 130 | Fully Automated Cloud-Drift Winds in NESDIS Operations. Bulletin of the American Meteorological Society, 1997, 78, 1121-1133. | 1.7 | 129 |
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| 132 | <title>Impact of the new-generation GOES on the determination of sea surface temperature</title>. , 1996, , . | | 4 |
| 133 | <title>Monitoring biomass burning and aerosol loading and transport using multispectral GOES data</title>. , 1996, , . | | 1 |
| 134 | <title>Automated cloud-motion winds from GOES-8 and -9</title>. , 1996, , . | | 1 |
| 135 | <title>Blackbody emissivity considerations for radiometric calibration of the MODIS Airborne Simulator (MAS) thermal channels</title>. , 1996, 2820, 44. | | 6 |
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| 146 | Trends in global cirrus inferred from three years of HIRS data. , 1993, , . | | 3 |
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| 149 | Remote sensing of cloud, aerosol, and water vapor properties from the moderate resolution imaging spectrometer (MODIS). IEEE Transactions on Geoscience and Remote Sensing, 1992, 30, 2-27. | 2.7 | 826 |
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| 157 | Optical Dielectric Function of the Lithium-Fluoride Crystal.. Physical Review Letters, 1973, 31, 340-340. | 2.9 | 0 |
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