

Patrick Minnis

List of Publications by Year in descending order

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343
papers

21,987
citations

10373

72
h-index

12933

131
g-index

381
all docs

381
docs citations

381
times ranked

11436
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Cloud-Radiative Forcing and Climate: Results from the Earth Radiation Budget Experiment. <i>Science</i> , 1989, 243, 57-63. | 6.0 | 1,494 |
| 2 | Efficacy of climate forcings. <i>Journal of Geophysical Research</i> , 2005, 110, . | 3.3 | 1,104 |
| 3 | Seasonal variation of cloud radiative forcing derived from the Earth Radiation Budget Experiment. <i>Journal of Geophysical Research</i> , 1990, 95, 18687-18703. | 3.3 | 524 |
| 4 | Dust and Biological Aerosols from the Sahara and Asia Influence Precipitation in the Western U.S.. <i>Science</i> , 2013, 339, 1572-1578. | 6.0 | 482 |
| 5 | Assessment of Global Cloud Datasets from Satellites: Project and Database Initiated by the GEWEX Radiation Panel. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 1031-1049. | 1.7 | 437 |
| 6 | CERES Edition-2 Cloud Property Retrievals Using TRMM VIRS and Terra and Aqua MODIS Dataâ€”Part I: Algorithms. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 4374-4400. | 2.7 | 410 |
| 7 | Absorption of Solar Radiation by Clouds: Observations Versus Models. <i>Science</i> , 1995, 267, 496-499. | 6.0 | 383 |
| 8 | A 6-year climatology of cloud occurrence frequency from Stratospheric Aerosol and Gas Experiment II observations (1985-1990). <i>Journal of Geophysical Research</i> , 1996, 101, 29407-29429. | 3.3 | 329 |
| 9 | Long-range transport and vertical structure of Asian dust from CALIPSO and surface measurements during PACDEX. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 324 |
| 10 | Radiative Climate Forcing by the Mount Pinatubo Eruption. <i>Science</i> , 1993, 259, 1411-1415. | 6.0 | 321 |
| 11 | Cloud ice: A climate model challenge with signs and expectations of progress. <i>Journal of Geophysical Research</i> , 2009, 114, . | 3.3 | 313 |
| 12 | Summer dust aerosols detected from CALIPSO over the Tibetan Plateau. <i>Geophysical Research Letters</i> , 2007, 34, . | 1.5 | 302 |
| 13 | Comparison of Regional Clear-Sky Albedos Inferred from Satellite Observations and Model Computations. <i>Journal of Climate and Applied Meteorology</i> , 1986, 25, 214-226. | 1.0 | 288 |
| 14 | The GCM-oriented CALIPSO Cloud Product (CALIPSOâ€™GOCCP). <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 285 |
| 15 | The Mixed-Phase Arctic Cloud Experiment. <i>Bulletin of the American Meteorological Society</i> , 2007, 88, 205-222. | 1.7 | 283 |
| 16 | The VAMOS Ocean-Cloud-Atmosphere-Land Study Regional Experiment (VOCALS-REx): goals, platforms, and field operations. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 627-654. | 1.9 | 272 |
| 17 | Taklimakan dust aerosol radiative heating derived from CALIPSO observations using the Fu-Liou radiation model with CERES constraints. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 4011-4021. | 1.9 | 251 |
| 18 | Comparing clouds and their seasonal variations in 10 atmospheric general circulation models with satellite measurements. <i>Journal of Geophysical Research</i> , 2005, 110, . | 3.3 | 250 |

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| 19 | FIRE Arctic Clouds Experiment. Bulletin of the American Meteorological Society, 2000, 81, 5-29. | 1.7 | 249 |
| 20 | Satellite-based assessment of possible dust aerosols semi-direct effect on cloud water path over East Asia. Geophysical Research Letters, 2006, 33, . | 1.5 | 233 |
| 21 | Possible influences of Asian dust aerosols on cloud properties and radiative forcing observed from MODIS and CERES. Geophysical Research Letters, 2006, 33, . | 1.5 | 231 |
| 22 | Angular Distribution Models for Top-of-Atmosphere Radiative Flux Estimation from the Clouds and the Earth's Radiant Energy System Instrument on the Tropical Rainfall Measuring Mission Satellite. Part I: Methodology. Journal of Applied Meteorology and Climatology, 2003, 42, 240-265. | 1.7 | 220 |
| 23 | Clouds and the Earth's Radiant Energy System (CERES): algorithm overview. IEEE Transactions on Geoscience and Remote Sensing, 1998, 36, 1127-1141. | 2.7 | 218 |
| 24 | Improvements of top-of-atmosphere and surface irradiance computations with CALIPSO-, CloudSat-, and MODIS-derived cloud and aerosol properties. Journal of Geophysical Research, 2011, 116, . | 3.3 | 208 |
| 25 | Thin Liquid Water Clouds: Their Importance and Our Challenge. Bulletin of the American Meteorological Society, 2007, 88, 177-190. | 1.7 | 195 |
| 26 | Stratocumulus Cloud Properties Derived from Simultaneous Satellite and Island-based Instrumentation during FIRE. Journal of Applied Meteorology and Climatology, 1992, 31, 317-339. | 1.7 | 175 |
| 27 | Cloud Detection in Nonpolar Regions for CERES Using TRMM VIRS and Terra and Aqua MODIS Data. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3857-3884. | 2.7 | 172 |
| 28 | Parameterizations of Reflectance and Effective Emittance for Satellite Remote Sensing of Cloud Properties. Journals of the Atmospheric Sciences, 1998, 55, 3313-3339. | 0.6 | 171 |
| 29 | ISCCP Cloud Algorithm Intercomparison. Journal of Climate and Applied Meteorology, 1985, 24, 877-903. | 1.0 | 169 |
| 30 | Forcings and chaos in interannual to decadal climate change. Journal of Geophysical Research, 1997, 102, 25679-25720. | 3.3 | 164 |
| 31 | A Review of High Impact Weather for Aviation Meteorology. Pure and Applied Geophysics, 2019, 176, 1869-1921. | 0.8 | 162 |
| 32 | The Global Space-Based Inter-Calibration System. Bulletin of the American Meteorological Society, 2011, 92, 467-475. | 1.7 | 161 |
| 33 | Planning, implementation, and scientific goals of the Studies of Emissions and Atmospheric Composition, Clouds and Climate Coupling by Regional Surveys (SEAC ⁴ RS) field mission. Journal of Geophysical Research D: Atmospheres, 2016, 121, 4967-5009. | 1.2 | 158 |
| 34 | Dust aerosol effect on semi-arid climate over Northwest China detected from A-Train satellite measurements. Atmospheric Chemistry and Physics, 2010, 10, 6863-6872. | 1.9 | 152 |
| 35 | Radiative forcing by contrails. Annales Geophysicae, 1999, 17, 1080-1094. | 0.6 | 151 |
| 36 | Contrails, Cirrus Trends, and Climate. Journal of Climate, 2004, 17, 1671-1685. | 1.2 | 146 |

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| 37 | Transformation of contrails into cirrus during SUCCESS. <i>Geophysical Research Letters</i> , 1998, 25, 1157-1160. | 1.5 | 134 |
| 38 | Relationships among cloud occurrence frequency, overlap, and effective thickness derived from CALIPSO and CloudSat merged cloud vertical profiles. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 134 |
| 39 | State of the Climate in 2016. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, Si-S280. | 1.7 | 132 |
| 40 | Inference of Cirrus Cloud Properties Using Satellite-observed Visible and Infrared Radiances. Part I: Parameterization of Radiance Fields. <i>Journals of the Atmospheric Sciences</i> , 1993, 50, 1279-1304. | 0.6 | 126 |
| 41 | Changes in Earth's Albedo Measured by Satellite. <i>Science</i> , 2005, 308, 825-825. | 6.0 | 126 |
| 42 | Diurnal Variability of Regional Cloud and Clear-Sky Radiative Parameters Derived from GOES Data. Part I: Analysis Method. <i>Journal of Climate and Applied Meteorology</i> , 1984, 23, 993-1011. | 1.0 | 124 |
| 43 | CERES Edition-2 Cloud Property Retrievals Using TRMM VIRS and Terra and Aqua MODIS Data—Part II: Examples of Average Results and Comparisons With Other Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 4401-4430. | 2.7 | 123 |
| 44 | Planning, implementation, and first results of the Tropical Composition, Cloud and Climate Coupling Experiment (TC4). <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 120 |
| 45 | Underestimation of deep convective cloud tops by thermal imagery. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a. | 1.5 | 119 |
| 46 | Inference of Cirrus Cloud Properties Using Satellite-observed Visible and Infrared Radiances. Part II: Verification of Theoretical Cirrus Radiative Properties. <i>Journals of the Atmospheric Sciences</i> , 1993, 50, 1305-1322. | 0.6 | 117 |
| 47 | Clouds, Aerosols, and Precipitation in the Marine Boundary Layer: An Arm Mobile Facility Deployment. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 419-440. | 1.7 | 117 |
| 48 | Aerosol and Cloud Microphysical Characteristics of Rifts and Gradients in Maritime Stratocumulus Clouds. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 983-997. | 0.6 | 112 |
| 49 | Diurnal Variability of Regional Cloud and Clear-Sky Radiative Parameters Derived from GOES Data. Part II: November 1978 Cloud Distributions. <i>Journal of Climate and Applied Meteorology</i> , 1984, 23, 1012-1031. | 1.0 | 108 |
| 50 | A comparison of TWP—ICE observational data with cloud—resolving model results. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 108 |
| 51 | Global distribution of contrail radiative forcing. <i>Geophysical Research Letters</i> , 1999, 26, 1853-1856. | 1.5 | 107 |
| 52 | The Global Space-Based Inter-Calibration System. <i>Bulletin of the American Meteorological Society</i> , 2011, 92, 467-475. | 1.7 | 105 |
| 53 | Cirrus layer microphysical properties derived from surface-based millimeter radar and infrared interferometer data. <i>Journal of Geophysical Research</i> , 1998, 103, 23207-23216. | 3.3 | 104 |
| 54 | A Climatology of Midlatitude Continental Clouds from the ARM SGP Central Facility. Part II: Cloud Fraction and Surface Radiative Forcing. <i>Journal of Climate</i> , 2006, 19, 1765-1783. | 1.2 | 104 |

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|----|---|-----|-----------|
| 55 | Estimation of Asian dust aerosol effect on cloud radiation forcing using Fu-Liou radiative model and CERES measurements. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2763-2771. | 1.9 | 101 |
| 56 | Aerosol impacts on California winter clouds and precipitation during CalWater 2011: local pollution versus long-range transported dust. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 81-101. | 1.9 | 101 |
| 57 | Comparison of Stratus Cloud Properties Deduced from Surface, GOES, and Aircraft Data during the March 2000 ARM Cloud IOP. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 3265-3284. | 0.6 | 100 |
| 58 | Storm-Scale Data Assimilation and Ensemble Forecasting with the NSSL Experimental Warn-on-Forecast System. Part II: Combined Radar and Satellite Data Experiments. <i>Weather and Forecasting</i> , 2016, 31, 297-327. | 0.5 | 98 |
| 59 | Diurnal Variability of Regional Cloud and Clear-Sky Radiative Parameters Derived from GOES Data. Part III: November 1978 Radiative Parameters. <i>Journal of Climate and Applied Meteorology</i> , 1984, 23, 1032-1051. | 1.0 | 97 |
| 60 | Effect of biomass burning on marine stratocumulus clouds off the California coast. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8841-8856. | 1.9 | 96 |
| 61 | The Role of Cloud Microphysics Parameterization in the Simulation of Mesoscale Convective System Clouds and Precipitation in the Tropical Western Pacific. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 1104-1128. | 0.6 | 93 |
| 62 | Impact of Aviation on Climate: FAA's Aviation Climate Change Research Initiative (ACCRI) Phase II. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 561-583. | 1.7 | 93 |
| 63 | Development of algorithms for understanding the temporal and spatial variability of the Earth's Radiation Balance. <i>Reviews of Geophysics</i> , 1986, 24, 422-438. | 9.0 | 86 |
| 64 | Temporal Interpolation Methods for the Clouds and the Earth's Radiant Energy System (CERES) Experiment. <i>Journal of Applied Meteorology and Climatology</i> , 1998, 37, 572-590. | 1.7 | 85 |
| 65 | Use of satellite data to study tropospheric ozone in the tropics. <i>Journal of Geophysical Research</i> , 1986, 91, 14451-14465. | 3.3 | 83 |
| 66 | Evaluation of Cirrus Cloud Properties Derived from MODIS Data Using Cloud Properties Derived from Ground-Based Observations Collected at the ARM SGP Site. <i>Journal of Applied Meteorology and Climatology</i> , 2005, 44, 221-240. | 1.7 | 83 |
| 67 | Evolution of a Florida Cirrus Anvil. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 2352-2372. | 0.6 | 82 |
| 68 | Advanced retrievals of multilayered cloud properties using multispectral measurements. <i>Journal of Geophysical Research</i> , 2005, 110, . | 3.3 | 82 |
| 69 | Estimating the top altitude of optically thick ice clouds from thermal infrared satellite observations using CALIPSO data. <i>Geophysical Research Letters</i> , 2008, 35, . | 1.5 | 82 |
| 70 | Comparison of CERES's MODIS stratus cloud properties with ground-based measurements at the DOE ARM Southern Great Plains site. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 80 |
| 71 | Rapid Calibration of Operational and Research Meteorological Satellite Imagers. Part I: Evaluation of Research Satellite Visible Channels as References. <i>Journal of Atmospheric and Oceanic Technology</i> , 2002, 19, 1233-1249. | 0.5 | 79 |
| 72 | Near-real time cloud retrievals from operational and research meteorological satellites. <i>Proceedings of SPIE</i> , 2008, , . | 0.8 | 78 |

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|----|---|-----|-----------|
| 73 | Uncertainties Associated With the Surface Texture of Ice Particles in Satellite-Based Retrieval of Cirrus Clouds: Part II—Effect of Particle Surface Roughness on Retrieved Cloud Optical Thickness and Effective Particle Size. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 1948-1957. | 2.7 | 77 |
| 74 | Object-Based Verification of a Prototype Warn-on-Forecast System. <i>Weather and Forecasting</i> , 2018, 33, 1225-1250. | 0.5 | 77 |
| 75 | A Climatology of Midlatitude Continental Clouds from the ARM SGP Central Facility: Part I: Low-Level Cloud Macrophysical, Microphysical, and Radiative Properties. <i>Journal of Climate</i> , 2005, 18, 1391-1410. | 1.2 | 76 |
| 76 | CERES MODIS Cloud Product Retrievals for Edition 4—Part I: Algorithm Changes. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 2744-2780. | 2.7 | 75 |
| 77 | Dusty cloud properties and radiative forcing over dust source and downwind regions derived from A—rain data during the Pacific Dust Experiment. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 74 |
| 78 | Detection of dust aerosol by combining CALIPSO active lidar and passive IIR measurements. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4241-4251. | 1.9 | 73 |
| 79 | An Intercomparison of Microphysical Retrieval Algorithms for Upper-Tropospheric Ice Clouds. <i>Bulletin of the American Meteorological Society</i> , 2007, 88, 191-204. | 1.7 | 72 |
| 80 | A Web-Based Tool for Calculating Spectral Band Difference Adjustment Factors Derived From SCIAMACHY Hyperspectral Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 2529-2542. | 2.7 | 72 |
| 81 | A 10 year climatology of cloud fraction and vertical distribution derived from both surface and GOES observations over the DOE ARM SPG site. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 71 |
| 82 | Spreading and growth of contrails in a sheared environment. <i>Journal of Geophysical Research</i> , 1998, 103, 31557-31567. | 3.3 | 69 |
| 83 | Uncertainties Associated With the Surface Texture of Ice Particles in Satellite-Based Retrieval of Cirrus Clouds—Part I: Single-Scattering Properties of Ice Crystals With Surface Roughness. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 1940-1947. | 2.7 | 68 |
| 84 | Radiative effect differences between multi-layered and single-layer clouds derived from CERES, CALIPSO, and CloudSat data. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 361-375. | 1.1 | 68 |
| 85 | Where Is the Best Site on Earth? Domes A, B, C, and F, and Ridges A and B. <i>Publications of the Astronomical Society of the Pacific</i> , 2009, 121, 976-992. | 1.0 | 66 |
| 86 | Asymmetry in the diurnal variation of surface albedo. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1997, 35, 879-890. | 2.7 | 65 |
| 87 | Depolarization ratio and attenuated backscatter for nine cloud types: analyses based on collocated CALIPSO lidar and MODIS measurements. <i>Optics Express</i> , 2008, 16, 3931. | 1.7 | 63 |
| 88 | Physical and optical properties of persistent contrails: Climatology and interpretation. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 61 |
| 89 | Life cycle of midlatitude deep convective systems in a Lagrangian framework. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 61 |
| 90 | Global statistics of liquid water content and effective number concentration of water clouds over ocean derived from combined CALIPSO and MODIS measurements. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 3353-3359. | 1.9 | 60 |

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| 91 | Clouds and Earth Radiant Energy System (CERES), a review: Past, present and future. <i>Advances in Space Research</i> , 2011, 48, 254-263. | 1.2 | 60 |
| 92 | Two MODIS Aerosol Products over Ocean on the Terra and Aqua CERES SSF Datasets. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 1008-1031. | 0.6 | 59 |
| 93 | Assessment of the Visible Channel Calibrations of the VIRS on TRMM and MODIS on Aqua and Terra. <i>Journal of Atmospheric and Oceanic Technology</i> , 2008, 25, 385-400. | 0.5 | 59 |
| 94 | Deep convective cloud-top heights and their thermodynamic control during CRYSTAL-FACE. <i>Journal of Geophysical Research</i> , 2004, 109, . | 3.3 | 58 |
| 95 | Contrail coverage derived from 2001 AVHRR data over the continental United States of America and surrounding areas. <i>Meteorologische Zeitschrift</i> , 2005, 14, 525-536. | 0.5 | 58 |
| 96 | Observations of rapid aerosol optical depth enhancements in the vicinity of polluted cumulus clouds. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11633-11656. | 1.9 | 58 |
| 97 | Viewing zenith angle dependence of cloudiness determined from coincident GOES East and GOES West data. <i>Journal of Geophysical Research</i> , 1989, 94, 2303-2320. | 3.3 | 57 |
| 98 | Multilevel cloud retrieval using multispectral HIRS and AVHRR data: Nighttime oceanic analysis. <i>Journal of Geophysical Research</i> , 1994, 99, 5499. | 3.3 | 57 |
| 99 | A 25-month database of stratus cloud properties generated from ground-based measurements at the Atmospheric Radiation Measurement Southern Great Plains Site. <i>Journal of Geophysical Research</i> , 2000, 105, 4529-4537. | 3.3 | 57 |
| 100 | The Effects of Small Ice Crystals on Cirrus Infrared Radiative Properties. <i>Journals of the Atmospheric Sciences</i> , 1992, 49, 1487-1493. | 0.6 | 57 |
| 101 | Cloud radiative forcing at the Atmospheric Radiation Measurement Program Climate Research Facility: 1. Technique, validation, and comparison to satellite-derived diagnostic quantities. <i>Journal of Geophysical Research</i> , 2006, 111, . | 3.3 | 56 |
| 102 | Observations of the boundary layer, cloud, and aerosol variability in the southeast Pacific near-coastal marine stratocumulus during VOCALS-REx. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 9943-9959. | 1.9 | 56 |
| 103 | Top-of-atmosphere radiation budget of convective core/stratiform rain and anvil clouds from deep convective systems. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a. | 3.3 | 56 |
| 104 | A 19-Month Record of Marine Aerosol "Cloud" Radiation Properties Derived from DOE ARM Mobile Facility Deployment at the Azores. Part I: Cloud Fraction and Single-Layered MBL Cloud Properties. <i>Journal of Climate</i> , 2014, 27, 3665-3682. | 1.2 | 56 |
| 105 | Observations of the Interaction between Cumulus Clouds and Warm Stratocumulus Clouds in the Marine Boundary Layer during ASTEX. <i>Journals of the Atmospheric Sciences</i> , 1995, 52, 2902-2922. | 0.6 | 54 |
| 106 | Factors controlling contrail cirrus optical depth. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6229-6254. | 1.9 | 54 |
| 107 | Remote sensing of cloud top pressure/height from SEVIRI: analysis of ten current retrieval algorithms. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 2839-2867. | 1.2 | 54 |
| 108 | Anisotropy of Land Surface Skin Temperature Derived from Satellite Data. <i>Journal of Applied Meteorology and Climatology</i> , 2000, 39, 1117-1129. | 1.7 | 52 |

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|-----|---|-----|-----------|
| 109 | Determination of ice water path in ice-over-water cloud systems using combined MODIS and AMSR-E measurements. <i>Geophysical Research Letters</i> , 2006, 33, . | 1.5 | 50 |
| 110 | First Estimates of the Diurnal Variation of Longwave Radiation from the Multiple-Satellite Earth Radiation Budget Experiment (ERBE). <i>Bulletin of the American Meteorological Society</i> , 1988, 69, 1144-1151. | 1.7 | 49 |
| 111 | On the use of deep convective clouds to calibrate AVHRR data. , 2004, , . | | 49 |
| 112 | Aviation Applications for Satellite-Based Observations of Cloud Properties, Convection Initiation, In-Flight Icing, Turbulence, and Volcanic Ash. <i>Bulletin of the American Meteorological Society</i> , 2007, 88, 1589-1607. | 1.7 | 49 |
| 113 | Boundary layer regulation in the southeast Atlantic cloud microphysics during the biomass burning season as seen by the Aâ€rain satellite constellation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 11,288. | 1.2 | 49 |
| 114 | A two-habit model for the microphysical and optical properties of ice clouds. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13719-13737. | 1.9 | 49 |
| 115 | Global Cloud Detection for CERES Edition 4 Using Terra and Aqua MODIS Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 9410-9449. | 2.7 | 49 |
| 116 | Cloud System Evolution in the Trades (CSET): Following the Evolution of Boundary Layer Cloud Systems with the NSFâ€™NCAR GV. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 93-121. | 1.7 | 49 |
| 117 | A Pinatubo Climate Modeling Investigation. , 1996, , 233-272. | | 49 |
| 118 | Upwelling response to atmospheric coastal jets off central Chile: A modeling study of the October 2000 event. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 48 |
| 119 | Comment on "Large Volcanic Aerosol Load in the Stratosphere Linked to Asian Monsoon Transport". <i>Science</i> , 2013, 339, 647-647. | 6.0 | 48 |
| 120 | Simultaneous Radar and Satellite Data Storm-Scale Assimilation Using an Ensemble Kalman Filter Approach for 24 May 2011. <i>Monthly Weather Review</i> , 2015, 143, 165-194. | 0.5 | 48 |
| 121 | CIMARâ€™5: A Snapshot of the Lower Troposphere over the Subtropical Southeast Pacific. <i>Bulletin of the American Meteorological Society</i> , 2001, 82, 2193-2207. | 1.7 | 47 |
| 122 | Comparison of CERES surface radiation fluxes with surface observations over Loess Plateau. <i>Remote Sensing of Environment</i> , 2011, 115, 1489-1500. | 4.6 | 47 |
| 123 | Estimation of water cloud properties from satellite microwave, infrared and visible measurements in oceanic environments: 2. Results. <i>Journal of Geophysical Research</i> , 1998, 103, 3887-3905. | 3.3 | 46 |
| 124 | Ultraclean Layers and Optically Thin Clouds in the Stratocumulus-to-Cumulus Transition. Part I: Observations. <i>Journals of the Atmospheric Sciences</i> , 2018, 75, 1631-1652. | 0.6 | 46 |
| 125 | Properties of individual contrails: a compilation of observations and some comparisons. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 403-438. | 1.9 | 45 |
| 126 | A Case Study of the Development of Contrail Clusters over the Great Lakes. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 1132-1146. | 0.6 | 44 |

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| 127 | Spectral Reflectance Corrections for Satellite Intercalibrations Using SCIAMACHY Data. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 119-123. | 1.4 | 44 |
| 128 | Large-scale vertical velocity, diabatic heating and drying profiles associated with seasonal and diurnal variations of convective systems observed in the GoAmazon2014/5 experiment. Atmospheric Chemistry and Physics, 2016, 16, 14249-14264. | 1.9 | 44 |
| 129 | The Effect of Environmental Conditions on Tropical Deep Convective Systems Observed from the TRMM Satellite. Journal of Climate, 2006, 19, 5745-5761. | 1.2 | 43 |
| 130 | Estimation of water cloud properties from satellite microwave, infrared and visible measurements in oceanic environments: 1. Microwave brightness temperature simulations. Journal of Geophysical Research, 1998, 103, 3873-3886. | 3.3 | 42 |
| 131 | Contrail properties over the eastern North Pacific from AVHRR data. Meteorologische Zeitschrift, 2005, 14, 515-523. | 0.5 | 42 |
| 132 | Seasonal and interannual variations of top-of-atmosphere irradiance and cloud cover over polar regions derived from the CERES data set. Geophysical Research Letters, 2006, 33, . | 1.5 | 41 |
| 133 | Relationships between radiosonde and RUC-2 meteorological conditions and cloud occurrence determined from ARM data. Journal of Geophysical Research, 2005, 110, . | 3.3 | 40 |
| 134 | Formation and Spread of Aircraft-Induced Holes in Clouds. Science, 2011, 333, 77-81. | 6.0 | 40 |
| 135 | Evaluation of a Forward Operator to Assimilate Cloud Water Path into WRF-DART. Monthly Weather Review, 2013, 141, 2272-2289. | 0.5 | 40 |
| 136 | Ice cloud properties in ice-over-water cloud systems using Tropical Rainfall Measuring Mission (TRMM) visible and infrared scanner and TRMM Microwave Imager data. Journal of Geophysical Research, 2007, 112, . | 3.3 | 39 |
| 137 | Effect of the inhomogeneity of ice crystals on retrieving ice cloud optical thickness and effective particle size. Journal of Geophysical Research, 2009, 114, . | 3.3 | 39 |
| 138 | Factors influencing Northern Hemisphere winter mean atmospheric circulation anomalies during the period 1960/61 to 2001/02. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 1970-1982. | 1.0 | 39 |
| 139 | Assessment of NASA GISS CMIP5 and Post-CMIP5 Simulated Clouds and TOA Radiation Budgets Using Satellite Observations. Part I: Cloud Fraction and Properties. Journal of Climate, 2014, 27, 4189-4208. | 1.2 | 39 |
| 140 | ATMOS/ATLAS 3 INFRARED PROFILE MEASUREMENTS OF TRACE GASES IN THE NOVEMBER 1994 TROPICAL AND SUBTROPICAL UPPER TROPOSPHERE. Journal of Quantitative Spectroscopy and Radiative Transfer, 1998, 60, 891-901. | 1.1 | 38 |
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