

Jui-Yuan Christine Chiu

List of Publications by Citations

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56
papers

1,424
citations

21
h-index

36
g-index

71
ext. papers

1,639
ext. citations

5
avg, IF

4.02
L-index

#	Paper	IF	Citations
56	Thin Liquid Water Clouds: Their Importance and Our Challenge. <i>Bulletin of the American Meteorological Society</i> , 2007 , 88, 177-190	6.1	164
55	An assessment of aerosol-cloud interactions in marine stratus clouds based on surface remote sensing. <i>Journal of Geophysical Research</i> , 2009 , 114,		120
54	Precipitation and Latent Heating Distributions from Satellite Passive Microwave Radiometry. Part I: Improved Method and Uncertainties. <i>Journal of Applied Meteorology and Climatology</i> , 2006 , 45, 702-720	2.7	109
53	Remote Sensing of Droplet Number Concentration in Warm Clouds: A Review of the Current State of Knowledge and Perspectives. <i>Reviews of Geophysics</i> , 2018 , 56, 409-453	23.1	105
52	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	6.1	89
51	Racoro Extended-Term Aircraft Observations of Boundary Layer Clouds. <i>Bulletin of the American Meteorological Society</i> , 2012 , 93, 861-878	6.1	71
50	The DACCIWA Project: DynamicsAerosolChemistryCloud Interactions in West Africa. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 1451-1460	6.1	65
49	The DynamicsAerosolChemistryCloud Interactions in West Africa Field Campaign: Overview and Research Highlights. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 83-104	6.1	53
48	Cloud optical depth retrievals from the Aerosol Robotic Network (AERONET) cloud mode observations. <i>Journal of Geophysical Research</i> , 2010 , 115,		45
47	Investigation of Discrepancies in Satellite Rainfall Estimates over Ethiopia. <i>Journal of Hydrometeorology</i> , 2014 , 15, 2347-2369	3.7	37
46	Remote sensing of cloud properties using ground-based measurements of zenith radiance. <i>Journal of Geophysical Research</i> , 2006 , 111,		33
45	Aerosol impacts on drizzle properties in warm clouds from ARM Mobile Facility maritime and continental deployments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 4136-4148	4.4	32
44	Physical interpretation of the spectral radiative signature in the transition zone between cloud-free and cloudy regions. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1419-1430	6.8	31
43	Cloud droplet size and liquid water path retrievals from zenith radiance measurements: examples from the Atmospheric Radiation Measurement Program and the Aerosol Robotic Network. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 10313-10329	6.8	27
42	Joint retrievals of cloud and drizzle in marine boundary layer clouds using ground-based radar, lidar and zenith radiances. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 2663-2683	4	26
41	Physical interpretation of the correlation between multi-angle spectral data and canopy height. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	26
40	Cloud optical and microphysical properties derived from ground-based and satellite sensors over a site in the Yangtze Delta region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 9141-9152	4.4	24

39	Retrievals of Riming and Snow Density From Vertically Pointing Doppler Radars. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 13,807	4.4	24
38	Representing 3-D cloud radiation effects in two-stream schemes: 2. Matrix formulation and broadband evaluation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 8583-8599	4.4	23
37	Experimental and modeled UV erythemal irradiance under overcast conditions: the role of cloud optical depth. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 11723-11732	6.8	23
36	A multisatellite climatology of clouds, radiation, and precipitation in southern West Africa and comparison to climate models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 10,857-10,879	4.4	22
35	A novel ensemble method for retrieving properties of warm cloud in 3-D using ground-based scanning radar and zenith radiances. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 10,912-10,930	4.4	21
34	Quantifying the Contribution of Different Cloud Types to the Radiation Budget in Southern West Africa. <i>Journal of Climate</i> , 2018 , 31, 5273-5291	4.4	20
33	Representing 3-D cloud radiation effects in two-stream schemes: 1. Longwave considerations and effective cloud edge length. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 8567-8582	4.4	17
32	Bayesian Retrieval of Complete Posterior PDFs of Oceanic Rain Rate from Microwave Observations. <i>Journal of Applied Meteorology and Climatology</i> , 2006 , 45, 1073-1095	2.7	15
31	Improved rain rate and drop size retrievals from airborne Doppler radar. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 11567-11589	6.8	14
30	Cloud Optical Depth Retrievals From Solar Background Signals of Micropulse Lidars. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2007 , 4, 456-460	4.1	13
29	Spectral invariant behavior of zenith radiance around cloud edges observed by ARM SWS. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	12
28	3D cloud reconstructions: Evaluation of scanning radar scan strategy with a view to surface shortwave radiation closure. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 9153-9167	4.4	11
27	Aerosol and cloud microphysics covariability in the northeast Pacific boundary layer estimated with ship-based and satellite remote sensing observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 2403-2418	4.4	11
26	Idealized model for changes in equilibrium temperature, mixed layer depth, and boundary layer cloud over land in a doubled CO ₂ climate. <i>Journal of Geophysical Research</i> , 2010 , 115,		11
25	Spectrally-invariant behavior of zenith radiance around cloud edges simulated by radiative transfer. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 11295-11303	6.8	11
24	Retrievals of Thick Cloud Optical Depth from the Geoscience Laser Altimeter System (GLAS) by Calibration of Solar Background Signal. <i>Journals of the Atmospheric Sciences</i> , 2008 , 65, 3513-3526	2.1	11
23	The effect of surface heterogeneity on cloud absorption estimates. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	11
22	Spectrally Invariant Approximation within Atmospheric Radiative Transfer. <i>Journals of the Atmospheric Sciences</i> , 2011 , 68, 3094-3111	2.1	10

21	Mechanisms Behind the Extratropical Stratiform Low-Cloud Optical Depth Response to Temperature in ARM Site Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 2127-2147	4.4	10
20	Insights into the diurnal cycle of global Earth outgoing radiation using a numerical weather prediction model. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 5129-5145	6.8	10
19	Aerosol and Cloud Experiments in the Eastern North Atlantic (ACE-ENA). <i>Bulletin of the American Meteorological Society</i> , 2021 , 1-51	6.1	10
18	&i>A Tale of Two Dust Storms&i>: analysis of a complex dust event in the Middle East. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 5101-5118	4	9
17	Determination of global Earth outgoing radiation at high temporal resolution using a theoretical constellation of satellites. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 1114-1131	4.4	8
16	Observation of the spectrally invariant properties of clouds in cloudy-to-clear transition zones during the MAGIC field campaign. <i>Atmospheric Research</i> , 2016 , 182, 294-301	5.4	7
15	Spatio-temporal variability of warm rain events over southern West Africa from geostationary satellite observations for climate monitoring and model evaluation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018 , 144, 2311-2330	6.4	6
14	The interdependence of continental warm cloud properties derived from unexploited solar background signals in ground-based lidar measurements. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 8389-8401	6.8	6
13	Characterizing the Radiative Effect of Rain Using a Global Ensemble of Cloud Resolving Simulations. <i>Journal of Advances in Modeling Earth Systems</i> , 2018 , 10, 2453-2470	7.1	4
12	The next step in Earth radiation budget measurements 2013 ,		3
11	Observational Constraints on Warm Cloud Microphysical Processes Using Machine Learning and Optimization Techniques. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091236	4.9	3
10	Shortwave Spectral Radiative Signatures and Their Physical Controls. <i>Journal of Climate</i> , 2019 , 32, 4805-4828	4.7	2
9	Quantitative Precipitation Estimation over Ocean Using Bayesian Approach from Microwave Observations during the Typhoon Season. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2009 , 20, 817	1.8	2
8	Physical interpretation of the spectral radiative signature in the transition zone between cloud-free and cloudy regions		2
7	The impact of neglecting ice phase on cloud optical depth retrievals from AERONET cloud mode observations. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 5087-5099	4	1
6	Separating Cloud and Drizzle Signals in Radar Doppler Spectra Using a Parametric Time Domain Method. <i>Journal of Atmospheric and Oceanic Technology</i> , 2020 , 37, 1669-1680	2	1
5	The Shortwave Spectral Radiometer for Atmospheric Science: Capabilities and Applications from the ARM User Facility. <i>Bulletin of the American Meteorological Society</i> , 2021 , 102, E539-E554	6.1	1
4	Retrieving microphysical properties of concurrent pristine ice and snow using polarimetric radar observations. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 6885-6904	4	0

- 3 On spectral invariance of single scattering albedo for water droplets and ice crystals at weakly absorbing wavelengths. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2012**, 113, 715-720 ^{2.1}
- 2 Constraining Aerosol Phase Function Using Dual-View Geostationary Satellites. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2021JD035209 4.4
- 1 Clouds, Aerosols, and Precipitation in the Marine Boundary Layer: An Arm Mobile Facility Deployment. *Bulletin of the American Meteorological Society*, **2016**, 2016, 419-440 6.1