

Patrick Minnis

List of Publications by Year in descending order

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343
papers

21,987
citations

10389
72
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12946
131
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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. Science, 1989, 243, 57-63.	12.6	1,494
2	Efficacy of climate forcings. Journal of Geophysical Research, 2005, 110, .	3.3	1,104
3	Seasonal variation of cloud radiative forcing derived from the Earth Radiation Budget Experiment. Journal of Geophysical Research, 1990, 95, 18687-18703.	3.3	524
4	Dust and Biological Aerosols from the Sahara and Asia Influence Precipitation in the Western U.S.. Science, 2013, 339, 1572-1578.	12.6	482
5	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.	3.3	437
6	CERES Edition-2 Cloud Property Retrievals Using TRMM VIRS and Terra and Aqua MODIS Dataâ€”Part I: Algorithms. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4374-4400.	6.3	410
7	Absorption of Solar Radiation by Clouds: Observations Versus Models. Science, 1995, 267, 496-499.	12.6	383
8	A 6-year climatology of cloud occurrence frequency from Stratospheric Aerosol and Gas Experiment II observations (1985-1990). Journal of Geophysical Research, 1996, 101, 29407-29429.	3.3	329
9	Long-range transport and vertical structure of Asian dust from CALIPSO and surface measurements during PACDEX. Journal of Geophysical Research, 2008, 113, .	3.3	324
10	Radiative Climate Forcing by the Mount Pinatubo Eruption. Science, 1993, 259, 1411-1415.	12.6	321
11	Cloud ice: A climate model challenge with signs and expectations of progress. Journal of Geophysical Research, 2009, 114, .	3.3	313
12	Summer dust aerosols detected from CALIPSO over the Tibetan Plateau. Geophysical Research Letters, 2007, 34, .	4.0	302
13	Comparison of Regional Clear-Sky Albedos Inferred from Satellite Observations and Model Computations. Journal of Climate and Applied Meteorology, 1986, 25, 214-226.	1.0	288
14	The GCMâ€”Oriented CALIPSO Cloud Product (CALIPSOâ€”GOCCP). Journal of Geophysical Research, 2010, 115, .	3.3	285
15	The Mixed-Phase Arctic Cloud Experiment. Bulletin of the American Meteorological Society, 2007, 88, 205-222.	3.3	283
16	The VAMOS Ocean-Cloud-Atmosphere-Land Study Regional Experiment (VOCALS-REx): goals, platforms, and field operations. Atmospheric Chemistry and Physics, 2011, 11, 627-654.	4.9	272
17	Taklimakan dust aerosol radiative heating derived from CALIPSO observations using the Fu-Liou radiation model with CERES constraints. Atmospheric Chemistry and Physics, 2009, 9, 4011-4021.	4.9	251
18	Comparing clouds and their seasonal variations in 10 atmospheric general circulation models with satellite measurements. Journal of Geophysical Research, 2005, 110, .	3.3	250

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19	FIRE Arctic Clouds Experiment. Bulletin of the American Meteorological Society, 2000, 81, 5-29.	3.3	249
20	Satellite-based assessment of possible dust aerosols semi-direct effect on cloud water path over East Asia. Geophysical Research Letters, 2006, 33, .	4.0	233
21	Possible influences of Asian dust aerosols on cloud properties and radiative forcing observed from MODIS and CERES. Geophysical Research Letters, 2006, 33, .	4.0	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.	6.3	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.	3.3	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.	6.3	172
28	Parameterizations of Reflectance and Effective Emittance for Satellite Remote Sensing of Cloud Properties. Journals of the Atmospheric Sciences, 1998, 55, 3313-3339.	1.7	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.	1.9	162
32	The Global Space-Based Inter-Calibration System. Bulletin of the American Meteorological Society, 2011, 92, 467-475.	3.3	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.	3.3	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.	4.9	152
35	Radiative forcing by contrails. Annales Geophysicae, 1999, 17, 1080-1094.	1.6	151
36	Contrails, Cirrus Trends, and Climate. Journal of Climate, 2004, 17, 1671-1685.	3.2	146

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37	Transformation of contrails into cirrus during SUCCESS. Geophysical Research Letters, 1998, 25, 1157-1160.	4.0	134
38	Relationships among cloud occurrence frequency, overlap, and effective thickness derived from CALIPSO and CloudSat merged cloud vertical profiles. Journal of Geophysical Research, 2010, 115, .	3.3	134
39	State of the Climate in 2016. Bulletin of the American Meteorological Society, 2017, 98, Si-S280.	3.3	132
40	Inference of Cirrus Cloud Properties Using Satellite-observed Visible and Infrared Radiances. Part I: Parameterization of Radiance Fields. Journals of the Atmospheric Sciences, 1993, 50, 1279-1304.	1.7	126
41	Changes in Earth's Albedo Measured by Satellite. Science, 2005, 308, 825-825.	12.6	126
42	Diurnal Variability of Regional Cloud and Clear-Sky Radiative Parameters Derived from GOES Data. Part I: Analysis Method. Journal of Climate and Applied Meteorology, 1984, 23, 993-1011.	1.0	124
43	CERES Edition-2 Cloud Property Retrievals Using TRMM VIRS and Terra and Aqua MODIS Dataâ€”Part II: Examples of Average Results and Comparisons With Other Data. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4401-4430.	6.3	123
44	Planning, implementation, and first results of the Tropical Composition, Cloud and Climate Coupling Experiment (TC4). Journal of Geophysical Research, 2010, 115, .	3.3	120
45	Underestimation of deep convective cloud tops by thermal imagery. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	119
46	Inference of Cirrus Cloud Properties Using Satellite-observed Visible and Infrared Radiances. Part II: Verification of Theoretical Cirrus Radiative Properties. Journals of the Atmospheric Sciences, 1993, 50, 1305-1322.	1.7	117
47	Clouds, Aerosols, and Precipitation in the Marine Boundary Layer: An Arm Mobile Facility Deployment. Bulletin of the American Meteorological Society, 2015, 96, 419-440.	3.3	117
48	Aerosol and Cloud Microphysical Characteristics of Rifts and Gradients in Maritime Stratocumulus Clouds. Journals of the Atmospheric Sciences, 2006, 63, 983-997.	1.7	112
49	Diurnal Variability of Regional Cloud and Clear-Sky Radiative Parameters Derived from GOES Data. Part II: November 1978 Cloud Distributions. Journal of Climate and Applied Meteorology, 1984, 23, 1012-1031.	1.0	108
50	A comparison of TWPâ€”ICE observational data with cloudâ€”resolving model results. Journal of Geophysical Research, 2012, 117, .	3.3	108
51	Global distribution of contrail radiative forcing. Geophysical Research Letters, 1999, 26, 1853-1856.	4.0	107
52	The Global Space-Based Inter-Calibration System. Bulletin of the American Meteorological Society, 2011, 92, 467-475.	3.3	105
53	Cirrus layer microphysical properties derived from surface-based millimeter radar and infrared interferometer data. Journal of Geophysical Research, 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. Journal of Climate, 2006, 19, 1765-1783.	3.2	104

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55	Estimation of Asian dust aerosol effect on cloud radiation forcing using Fu-Liou radiative model and CERES measurements. Atmospheric Chemistry and Physics, 2008, 8, 2763-2771.	4.9	101
56	Aerosol impacts on California winter clouds and precipitation during CalWater 2011: local pollution versus long-range transported dust. Atmospheric Chemistry and Physics, 2014, 14, 81-101.	4.9	101
57	Comparison of Stratus Cloud Properties Deduced from Surface, GOES, and Aircraft Data during the March 2000 ARM Cloud IOP. Journals of the Atmospheric Sciences, 2002, 59, 3265-3284.	1.7	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. Weather and Forecasting, 2016, 31, 297-327.	1.4	98
59	Diurnal Variability of Regional Cloud and Clear-Sky Radiative Parameters Derived from GOES Data. Part III: November 1978 Radiative Parameters. Journal of Climate and Applied Meteorology, 1984, 23, 1032-1051.	1.0	97
60	Effect of biomass burning on marine stratocumulus clouds off the California coast. Atmospheric Chemistry and Physics, 2009, 9, 8841-8856.	4.9	96
61	The Role of Cloud Microphysics Parameterization in the Simulation of Mesoscale Convective System Clouds and Precipitation in the Tropical Western Pacific. Journals of the Atmospheric Sciences, 2013, 70, 1104-1128.	1.7	93
62	Impact of Aviation on Climate: FAA's Aviation Climate Change Research Initiative (ACCRI) Phase II. Bulletin of the American Meteorological Society, 2016, 97, 561-583.	3.3	93
63	Development of algorithms for understanding the temporal and spatial variability of the Earth's Radiation Balance. Reviews of Geophysics, 1986, 24, 422-438.	23.0	86
64	Temporal Interpolation Methods for the Clouds and the Earth's Radiant Energy System (CERES) Experiment. Journal of Applied Meteorology and Climatology, 1998, 37, 572-590.	1.7	85
65	Use of satellite data to study tropospheric ozone in the tropics. Journal of Geophysical Research, 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. Journal of Applied Meteorology and Climatology, 2005, 44, 221-240.	1.7	83
67	Evolution of a Florida Cirrus Anvil. Journals of the Atmospheric Sciences, 2005, 62, 2352-2372.	1.7	82
68	Advanced retrievals of multilayered cloud properties using multispectral measurements. Journal of Geophysical Research, 2005, 110, .	3.3	82
69	Estimating the top altitude of optically thick ice clouds from thermal infrared satellite observations using CALIPSO data. Geophysical Research Letters, 2008, 35, .	4.0	82
70	Comparison of CERES's MODIS stratus cloud properties with ground-based measurements at the DOE ARM Southern Great Plains site. Journal of Geophysical Research, 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. Journal of Atmospheric and Oceanic Technology, 2002, 19, 1233-1249.	1.3	79
72	Near-real time cloud retrievals from operational and research meteorological satellites. Proceedings of SPIE, 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. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 1948-1957.	6.3	77
74	Object-Based Verification of a Prototype Warn-on-Forecast System. Weather and Forecasting, 2018, 33, 1225-1250.	1.4	77
75	A Climatology of Midlatitude Continental Clouds from the ARM SGP Central Facility: Part I: Low-Level Cloud Macrophysical, Microphysical, and Radiative Properties. Journal of Climate, 2005, 18, 1391-1410.	3.2	76
76	CERES MODIS Cloud Product Retrievals for Edition 4—Part I: Algorithm Changes. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2744-2780.	6.3	75
77	Dusty cloud properties and radiative forcing over dust source and downwind regions derived from A—rain data during the Pacific Dust Experiment. Journal of Geophysical Research, 2010, 115, .	3.3	74
78	Detection of dust aerosol by combining CALIPSO active lidar and passive IIR measurements. Atmospheric Chemistry and Physics, 2010, 10, 4241-4251.	4.9	73
79	An Intercomparison of Microphysical Retrieval Algorithms for Upper-Tropospheric Ice Clouds. Bulletin of the American Meteorological Society, 2007, 88, 191-204.	3.3	72
80	A Web-Based Tool for Calculating Spectral Band Difference Adjustment Factors Derived From SCIAMACHY Hyperspectral Data. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 2529-2542.	6.3	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. Journal of Geophysical Research, 2010, 115, .	3.3	71
82	Spreading and growth of contrails in a sheared environment. Journal of Geophysical Research, 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. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 1940-1947.	6.3	68
84	Radiative effect differences between multi-layered and single-layer clouds derived from CERES, CALIPSO, and CloudSat data. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 361-375.	2.3	68
85	Where Is the Best Site on Earth? Domes A, B, C, and F, and Ridges A and B. Publications of the Astronomical Society of the Pacific, 2009, 121, 976-992.	3.1	66
86	Asymmetry in the diurnal variation of surface albedo. IEEE Transactions on Geoscience and Remote Sensing, 1997, 35, 879-890.	6.3	65
87	Depolarization ratio and attenuated backscatter for nine cloud types: analyses based on collocated CALIPSO lidar and MODIS measurements. Optics Express, 2008, 16, 3931.	3.4	63
88	Physical and optical properties of persistent contrails: Climatology and interpretation. Journal of Geophysical Research, 2012, 117, .	3.3	61
89	Life cycle of midlatitude deep convective systems in a Lagrangian framework. Journal of Geophysical Research, 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. Atmospheric Chemistry and Physics, 2007, 7, 3353-3359.	4.9	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.	2.6	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.	1.7	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.	1.3	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.	1.0	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.	4.9	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.	1.7	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.	4.9	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.	3.2	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.	1.7	54
106	Factors controlling contrail cirrus optical depth. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6229-6254.	4.9	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.	3.1	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, .	4.0	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.	3.3	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.	3.3	49
113	Boundary layer regulation in the southeast Atlantic cloud microphysics during the biomass burning season as seen by the Aâ€train satellite constellation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 11,288.	3.3	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.	4.9	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.	6.3	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.	3.3	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.	12.6	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.	1.4	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.	3.3	47
122	Comparison of CERES surface radiation fluxes with surface observations over Loess Plateau. <i>Remote Sensing of Environment</i> , 2011, 115, 1489-1500.	11.0	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.	1.7	46
125	Properties of individual contrails: a compilation of observations and some comparisons. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 403-438.	4.9	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.	1.7	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.	3.1	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.	4.9	44
129	The Effect of Environmental Conditions on Tropical Deep Convective Systems Observed from the TRMM Satellite. Journal of Climate, 2006, 19, 5745-5761.	3.2	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.	1.0	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, .	4.0	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.	12.6	40
135	Evaluation of a Forward Operator to Assimilate Cloud Water Path into WRF-DART. Monthly Weather Review, 2013, 141, 2272-2289.	1.4	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.	2.7	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.	3.2	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.	2.3	38
141	Contrails and Induced Cirrus. Bulletin of the American Meteorological Society, 2010, 91, 473-478.	3.3	38
142	Impact of interannual variations in sources of insoluble aerosol species on orographic precipitation over California's central Sierra Nevada. Atmospheric Chemistry and Physics, 2015, 15, 6535-6548.	4.9	38
143	The Department of Energy's Atmospheric Radiation Measurement (ARM) Unmanned Aerospace Vehicle (UAV) Program. Bulletin of the American Meteorological Society, 2000, 81, 2915-2938.	3.3	37
144	Rapid Calibration of Operational and Research Meteorological Satellite Imagers. Part II: Comparison of Infrared Channels. Journal of Atmospheric and Oceanic Technology, 2002, 19, 1250-1266.	1.3	37

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145	CERES cloud property retrievals from imagers on TRMM, Terra, and Aqua. , 2004, , .		37
146	GOES-10 microphysical retrievals in marine warm clouds: Multi-instrument validation and daytime cycle over the southeast Pacific. Journal of Geophysical Research, 2012, 117, .	3.3	36
147	Regional Apparent Boundary Layer Lapse Rates Determined from CALIPSO and MODIS Data for Cloud-Height Determination. Journal of Applied Meteorology and Climatology, 2014, 53, 990-1011.	1.5	36
148	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
149	The 27-28 October 1986 FIRE IFO Cirrus Case Study: Cirrus Parameter Relationships Derived from Satellite and Lidar Data. Monthly Weather Review, 1990, 118, 2402-2425.	1.4	35
150	Comparison of cloud liquid water paths derived from in situ and microwave radiometer data taken during the SHEBA/FIREACE. Geophysical Research Letters, 2001, 28, 975-978.	4.0	35
151	Estimation of cirrus cloud effective ice crystal shapes using visible reflectances from dual-satellite measurements. Journal of Geophysical Research, 2002, 107, AAC 21-1-AAC 21-16.	3.3	35
152	Estimation of 2006 Northern Hemisphere contrail coverage using MODIS data. Geophysical Research Letters, 2013, 40, 612-617.	4.0	35
153	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
154	Examination of the Relationship between Outgoing Infrared Window and Total Longwave Fluxes Using Satellite Data. Journal of Climate, 1991, 4, 1114-1133.	3.2	34
155	Cloud and radiative fields derived from GOES-8 during SUCCESS and the ARM-UAV spring 1996 flight series. Geophysical Research Letters, 1998, 25, 1113-1116.	4.0	34
156	Modulation of tropical convection by breaking Rossby waves. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 125-137.	2.7	34
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