Steven E Platnick

List of Publications by Year
in descending order

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163 papers	11,744 citations	36303 51 h-index	30922 102 g-index
188 all docs	188 docs citations	188 times ranked	6962 citing authors

#	Article	IF	Citations
1	The MODIS cloud products: algorithms and examples from terra. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 459-473.	6.3	1,497
2	Cloud and aerosol properties, precipitable water, and profiles of temperature and water vapor from MODIS. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 442-458.	6.3	838
3	The MODIS Cloud Optical and Microphysical Products: Collection 6 Updates and Examples From Terra and Aqua. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 502-525.	6.3	489
4	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.	6.3	441
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	Cloud ice: A climate model challenge with signs and expectations of progress. Journal of Geophysical Research, 2009, 114, .	3.3	313
7	Determining the Susceptibility of Cloud Albedo to Changes in Droplet Concentration with the Advanced Very High Resolution Radiometer. Journal of Applied Meteorology and Climatology, 1994, 33, 334-347.	1.7	280
8	Vertical photon transport in cloud remote sensing problems. Journal of Geophysical Research, 2000, 105, 22919-22935.	3.3	272
9	Reconciling Simulated and Observed Views of Clouds: MODIS, ISCCP, and the Limits of Instrument Simulators. Journal of Climate, 2012, 25, 4699-4720.	3.2	256
10	Spatially complete global spectral surface albedos: value-added datasets derived from Terra MODIS land products. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 144-158.	6.3	244
11	The Fog Remote Sensing and Modeling Field Project. Bulletin of the American Meteorological Society, 2009, 90, 341-360.	3.3	218
12	Bulk Scattering Properties for the Remote Sensing of Ice Clouds. Part II: Narrowband Models. Journal of Applied Meteorology and Climatology, 2005, 44, 1896-1911.	1.7	216
13	Africa burning: A thematic analysis of the Southern African Regional Science Initiative (SAFARI 2000). Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	204
14	Strong constraints on aerosolâ€“cloud interactions from volcanic eruptions. Nature, 2017, 546, 485-491.	27.8	191
15	Scientific impact of MODIS C5 calibration degradation and C6+ improvements. Atmospheric Measurement Techniques, 2014, 7, 4353-4365.	3.1	185
16	An assessment of differences between cloud effective particle radius retrievals for marine water clouds from three MODIS spectral bands. Journal of Geophysical Research, 2011, 116, .	3.3	183
17	Impact of three-dimensional radiative effects on satellite retrievals of cloud droplet sizes. Journal of Geophysical Research, 2006, 111, .	3.3	182
18	Airborne Scanning Spectrometer for Remote Sensing of Cloud, Aerosol, Water Vapor, and Surface Properties. Journal of Atmospheric and Oceanic Technology, 1996, 13, 777-794.	1.3	181

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19	Remote Sensing of Liquid Water and Ice Cloud Optical Thickness and Effective Radius in the Arctic: Application of Airborne Multispectral MAS Data. Journal of Atmospheric and Oceanic Technology, 2004, 21, 857-875.	1.3	157
20	On the importance of small ice crystals in tropical anvil cirrus. Atmospheric Chemistry and Physics, 2009, 9, 5519-5537.	4.9	151
21	Effects of cloud horizontal inhomogeneity and drizzle on remote sensing of cloud droplet effective radius: Case studies based on largeâ€eddy simulations. Journal of Geophysical Research, 2012, 117, .	3.3	139
22	Planning, implementation, and first results of the Tropical Composition, Cloud and Climate Coupling Experiment (TC4). Journal of Geophysical Research, 2010, 115, .	3.3	120
23	A Validation of a Satellite Cloud Retrieval during ASTEX. Journals of the Atmospheric Sciences, 1995, 52, 2985-3001.	1.7	109
24	Fogâ€•and cloudâ€•induced aerosol modification observed by the Aerosol Robotic Network (AERONET). Journal of Geophysical Research, 2012, 117, .	3.3	99
25	Positive low cloud and dust feedbacks amplify tropical North Atlantic Multidecadal Oscillation. Geophysical Research Letters, 2016, 43, 1349-1356.	4.0	99
26	An overview of the ORACLES (ObseRvations of Aerosols above CLouds and their intEractionS) project: aerosolâ€“cloudâ€“radiation interactions in the southeast Atlantic basin. Atmospheric Chemistry and Physics, 2021, 21, 1507-1563.	4.9	97
27	MODIS-Derived Spatially Complete Surface Albedo Products: Spatial and Temporal Pixel Distribution and Zonal Averages. Journal of Applied Meteorology and Climatology, 2008, 47, 2879-2894.	1.5	96
28	Viewing Geometry Dependencies in MODIS Cloud Products. Journal of Atmospheric and Oceanic Technology, 2010, 27, 1519-1528.	1.3	93
29	A solar reflectance method for retrieving the optical thickness and droplet size of liquid water clouds over snow and ice surfaces. Journal of Geophysical Research, 2001, 106, 15185-15199.	3.3	86
30	Northern Hemisphere five-year average (2000â€“2004) spectral albedos of surfaces in the presence of snow: Statistics computed from Terra MODIS land products. Remote Sensing of Environment, 2007, 111, 337-345.	11.0	84
31	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
32	Estimating the direct radiative effect of absorbing aerosols overlying marine boundary layer clouds in the southeast Atlantic using MODIS and CALIOP. Journal of Geophysical Research D: Atmospheres, 2013, 118, 4801-4815.	3.3	80
33	Frequency and causes of failed MODIS cloud property retrievals for liquid phase clouds over global oceans. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4132-4154.	3.3	78
34	Composite Ship Track Characteristics. Journals of the Atmospheric Sciences, 2000, 57, 2542-2553.	1.7	77
35	Inherent and apparent scattering properties of coated or uncoated spheres embedded in an absorbing host medium. Applied Optics, 2002, 41, 2740.	2.1	76
36	Retrieval of semitransparent ice cloud optical thickness from atmospheric infrared sounder (AIRS) measurements. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 2254-2267.	6.3	76

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37	Influence of ice particle model on satellite ice cloud retrieval: lessons learned from MODIS and POLDER cloud product comparison. Atmospheric Chemistry and Physics, 2009, 9, 7115-7129.	4.9	75
38	Multilayer Cloud Detection with the MODIS Near-Infrared Water Vapor Absorption Band. Journal of Applied Meteorology and Climatology, 2010, 49, 2315-2333.	1.5	75
39	MODIS Collection 6 shortwave-derived cloud phase classification algorithm and comparisons with CALIOP. Atmospheric Measurement Techniques, 2016, 9, 1587-1599.	3.1	73
40	Resolving ice cloud optical thickness biases between CALIOP and MODIS using infrared retrievals. Atmospheric Chemistry and Physics, 2016, 16, 5075-5090.	4.9	73
41	Distribution and Radiative Forcing of Tropical Thin Cirrus Clouds. Journals of the Atmospheric Sciences, 2009, 66, 3721-3731.	1.7	71
42	Simultaneously inferring aboveâ€cloud absorbing aerosol optical thickness and underlying liquid phase cloud optical and microphysical properties using MODIS. Journal of Geophysical Research D: Atmospheres, 2015, 120, 5524-5547.	3.3	71
43	Cloud thermodynamic phase inferred from merged POLDER and MODIS data. Atmospheric Chemistry and Physics, 2010, 10, 11851-11865.	4.9	70
44	Airborne spectral measurements of surface-atmosphere anisotropy for several surfaces and ecosystems over southern Africa. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	68
45	Estimate of the impact of absorbing aerosol over cloud on the MODIS retrievals of cloud optical thickness and effective radius using two independent retrievals of liquid water path. Journal of Geophysical Research, 2009, 114, .	3.3	64
46	The Role of Background Cloud Microphysics in the Radiative Formation of Ship Tracks. Journals of the Atmospheric Sciences, 2000, 57, 2607-2624.	1.7	62
47	Clean and polluted clouds: Relationships among pollution, ice clouds, and precipitation in South America. Geophysical Research Letters, 2008, 35, .	4.0	60
48	Differences Between Collection 4 and 5 MODIS Ice Cloud Optical/Microphysical Products and Their Impact on Radiative Forcing Simulations. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 2886-2899.	6.3	59
49	Influence of convection and aerosol pollution on ice cloud particle effective radius. Atmospheric Chemistry and Physics, 2011, 11, 457-463.	4.9	59
50	Shortwave direct radiative effects of above-cloud aerosols over global oceans derived from 8Âyears of CALIOP and MODIS observations. Atmospheric Chemistry and Physics, 2016, 16, 2877-2900.	4.9	59
51	High Cloud Properties from Three Years of MODIS Terra and Aqua Collection-4 Data over the Tropics. Journal of Applied Meteorology and Climatology, 2007, 46, 1840-1856.	1.5	58
52	Examining the impact of overlying aerosols on the retrieval of cloud optical properties from passive remote sensing. Journal of Geophysical Research, 2010, 115, .	3.3	58
53	Remote sensing of cloud top pressure/height from SEVIRI: analysis of ten current retrieval algorithms. Atmospheric Measurement Techniques, 2014, 7, 2839-2867.	3.1	54
54	A framework based on 2â€Ð Taylor expansion for quantifying the impacts of subpixel reflectance variance and covariance on cloud optical thickness and effective radius retrievals based on the bispectral method. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7007-7025.	3.3	53

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55	Comparison of PARASOL Observations with Polarized Reflectances Simulated Using Different Ice Habit Mixtures. Journal of Applied Meteorology and Climatology, 2013, 52, 186-196.	1.5	52
56	Seasonally transported aerosol layers over southeast Atlantic are closer to underlying clouds than previously reported. Geophysical Research Letters, 2017, 44, 5818-5825.	4.0	51
57	Radiative effect of clouds on tropospheric chemistry in a global three-dimensional chemical transport model. Journal of Geophysical Research, 2006, 111, .	3.3	49
58	Effects of ice particle size vertical inhomogeneity on the passive remote sensing of ice clouds. Journal of Geophysical Research, 2010, 115, .	3.3	49
59	Global analysis of aerosol properties above clouds. Geophysical Research Letters, 2013, 40, 5809-5814.	4.0	49
60	Retrieval of Ice Cloud Optical Thickness and Effective Particle Size Using a Fast Infrared Radiative Transfer Model. Journal of Applied Meteorology and Climatology, 2011, 50, 2283-2297.	1.5	48
61	Detection of multi-layer and vertically-extended clouds using A-train sensors. Atmospheric Measurement Techniques, 2010, 3, 233-247.	3.1	46
62	A global view of oneâ€dimensional solar radiative transfer through oceanic water clouds. Geophysical Research Letters, 2010, 37, .	4.0	45
63	Exploring the differences in cloud properties observed by the Terra and Aqua MODIS Sensors. Atmospheric Chemistry and Physics, 2009, 9, 3461-3475.	4.9	44
64	Viewâ€angle consistency in reflectance, optical thickness and spherical albedo of marine waterâ€clouds over the northeastern Pacific through MISRâ€MODIS fusion. Geophysical Research Letters, 2009, 36, .	4.0	42
65	Testing remote sensing on artificial observations: impact of drizzle and 3-D cloud structure on effective radius retrievals. Atmospheric Chemistry and Physics, 2010, 10, 9535-9549.	4.9	40
66	The Appearance and Disappearance of Ship Tracks on Large Spatial Scales. Journals of the Atmospheric Sciences, 2000, 57, 2765-2778.	1.7	38
67	Radiative susceptibility of cloudy atmospheres to droplet number perturbations: 2. Global analysis from MODIS. Journal of Geophysical Research, 2008, 113, .	3.3	38
68	Retrieval of ice cloud properties using an optimal estimation algorithm and MODIS infrared observations: 1. Forward model, error analysis, and information content. Journal of Geophysical Research D: Atmospheres, 2016, 121, 5809-5826.	3.3	38
69	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
70	Accurate satellite-derived estimates of the tropospheric ozone impact on the global radiation budget. Atmospheric Chemistry and Physics, 2009, 9, 4447-4465.	4.9	36
71	Impact of tropospheric nitrogen dioxide on the regional radiation budget. Atmospheric Chemistry and Physics, 2009, 9, 6389-6400.	4.9	36
72	Satellites See the Worldâ€™s Atmosphere. Meteorological Monographs, 2019, 59, 4.1-4.53.	5.0	36

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73	The impact of cloud vertical profile on liquid water path retrieval based on the bispectral method: A theoretical study based on largeâ€eddy simulations of shallow marine boundary layer clouds. Journal of Geophysical Research D: Atmospheres, 2016, 121, 4122-4141.	3.3	35
74	Remote sensing of radiative and microphysical properties of clouds during TC⁴: Results from MAS, MASTER, MODIS, and MISR. Journal of Geophysical Research, 2010, 115, .	3.3	33
75	A novel method for estimating shortwave direct radiative effect of above-cloud aerosols using CALIOP and MODIS data. Atmospheric Measurement Techniques, 2014, 7, 1777-1789.	3.1	31
76	Retrieval of Cirrus Cloud Optical Depth under Day and Night Conditions from MODIS Collection 6 Cloud Property Data. Remote Sensing, 2015, 7, 7257-7271.	4.0	31
77	Comparison of CALIPSO-Like, LaRC, and MODIS Retrievals of Ice-Cloud Properties over SIRTA in France and Florida during CRYSTAL-FACE. Journal of Applied Meteorology and Climatology, 2007, 46, 249-272.	1.5	30
78	Ice cloud backscatter study and comparison with CALIPSO and MODIS satellite data. Optics Express, 2016, 24, 620.	3.4	29
79	The NASA MODIS-VIIRS Continuity Cloud Optical Properties Products. Remote Sensing, 2021, 13, 2.	4.0	29
80	Aerosolâ€CO relationship and aerosol effect on ice cloud particle size: Analyses from Aura Microwave Limb Sounder and Aqua Moderate Resolution Imaging Spectroradiometer observations. Journal of Geophysical Research, 2009, 114, .	3.3	28
81	Retrieval of Ice Cloud Properties from AIRS and MODIS Observations Based on a Fast High-Spectral-Resolution Radiative Transfer Model. Journal of Applied Meteorology and Climatology, 2013, 52, 710-726.	1.5	28
82	Liquid water cloud properties during the Polarimeter Definition Experiment (PODEX). Remote Sensing of Environment, 2015, 169, 20-36.	11.0	27
83	Cloud products from the Earth Polychromatic Imaging Camera (EPIC): algorithms and initial evaluation. Atmospheric Measurement Techniques, 2019, 12, 2019-2031.	3.1	27
84	Introduction to MODIS Cloud Products. , 2006, , 74-91.		27
85	Effects of Aerosols on the Radiative Properties of Clouds. Journals of the Atmospheric Sciences, 2000, 57, 2656-2670.	1.7	26
86	Utilizing the MODIS 1.38 Î¼m channel for cirrus cloud optical thickness retrievals: Algorithm and retrieval uncertainties. Journal of Geophysical Research, 2010, 115, .	3.3	26
87	A fast Visible Infrared Imaging Radiometer Suite simulator for cloudy atmospheres. Journal of Geophysical Research D: Atmospheres, 2015, 120, 240-255.	3.3	26
88	Observation of absorbing aerosols above clouds over the south-east Atlantic Ocean from the geostationary satellite SEVIRI â€“ Part 1: Method description and sensitivity. Atmospheric Chemistry and Physics, 2019, 19, 9595-9611.	4.9	26
89	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
90	Approximations for horizontal photon transport in cloud remote sensing problems. Journal of Quantitative Spectroscopy and Radiative Transfer, 2001, 68, 75-99.	2.3	25

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91	The Sensitivity of Ice Cloud Optical and Microphysical Passive Satellite Retrievals to Cloud Geometrical Thickness. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1315-1323.	6.3	25
92	Degree of ice particle surface roughness inferred from polarimetric observations. Atmospheric Chemistry and Physics, 2016, 16, 7545-7558.	4.9	25
93	Trade wind cumuli statistics in clean and polluted air over the Indian Ocean from in situ and remote sensing measurements. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	24
94	ASSESSMENT OF GLOBAL CLOUD DATASETS FROM SATELLITES: Project and Database initiated by the GEWEX Radiation Panel. Bulletin of the American Meteorological Society, 0, , 130117123745009.	3.3	24
95	Radiative susceptibility of cloudy atmospheres to droplet number perturbations: 1. Theoretical analysis and examples from MODIS. Journal of Geophysical Research, 2008, 113, .	3.3	23
96	Polarized view of supercooled liquid water clouds. Remote Sensing of Environment, 2016, 181, 96-110.	11.0	23
97	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
98	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
99	Remote sensing of smoke, land, and clouds from the NASA ER-2 during SAFARI 2000. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	22
100	The Plane-Parallel Albedo Bias of Liquid Clouds from MODIS Observations. Journal of Climate, 2007, 20, 5114-5125.	3.2	21
101	Pixelâ€scale assessment and uncertainty analysis of AIRS and MODIS ice cloud optical thickness and effective radius. Journal of Geophysical Research D: Atmospheres, 2015, 120, 11,669.	3.3	21
102	Retrieval of ice cloud properties using an optimal estimation algorithm and MODIS infrared observations: 2. Retrieval evaluation. Journal of Geophysical Research D: Atmospheres, 2016, 121, 5827-5845.	3.3	20
103	Observations and modeling of ice cloud shortwave spectral albedo during the Tropical Composition, Cloud and Climate Coupling Experiment (TC⁴). Journal of Geophysical Research, 2010, 115, .	3.3	18
104	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
105	Automatically Finding Ship Tracks to Enable Largeâ€scale Analysis of Aerosolâ€Cloud Interactions. Geophysical Research Letters, 2019, 46, 7726-7733.	4.0	18
106	Above-cloud aerosol radiative effects based on ORACLES 2016 and ORACLES 2017 aircraft experiments. Atmospheric Measurement Techniques, 2019, 12, 6505-6528.	3.1	18
107	Remote sensing the susceptibility of cloud albedo to changes in drop concentration. Atmospheric Research, 1994, 34, 85-98.	4.1	17
108	Apparent absorption of solar spectral irradiance in heterogeneous ice clouds. Journal of Geophysical Research, 2010, 115, .	3.3	17

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109	A fast radiative transfer model for visible through shortwave infrared spectral reflectances in clear and cloudy atmospheres. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 116, 122-131.	2.3	17
110	Measuring cloud thermodynamic phase with shortwave infrared imaging spectroscopy. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9174-9190.	3.3	17
111	Exploring Aerosols Near Clouds With Highâ€Spatialâ€Resolution Aircraft Remote Sensing During SEAC⁴RS. Journal of Geophysical Research D: Atmospheres, 2019, 124, 2148-2173.	3.3	17
112	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
113	An initial analysis of the pixel-level uncertainties in global MODIS cloud optical thickness and effective particle size retrievals. , 2004, , .		16
114	Uncertainties in cloud phase and optical thickness retrievals from the Earth Polychromatic Imaging Camera (EPIC). Atmospheric Measurement Techniques, 2016, 9, 1785-1797.	3.1	16
115	Intercomparisons of marine boundary layer cloud properties from the ARM CAPâ€MBL campaign and two MODIS cloud products. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2351-2365.	3.3	16
116	Quantifying the Impacts of Subpixel Reflectance Variability on Cloud Optical Thickness and Effective Radius Retrievals Based On Highâ€Resolution ASTER Observations. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4239-4258.	3.3	15
117	MODIS Retrievals of Cloud Effective Radius in Marine Stratocumulus Exhibit No Significant Bias. Geophysical Research Letters, 2018, 45, 10,656.	4.0	15
118	Model Calculations of Solar Spectral Irradiance in the 3.7-Î¼m Band for Earth Remote Sensing Applications. Journal of Applied Meteorology and Climatology, 2008, 47, 124-134.	1.5	14
119	Multi-sensor cloud retrieval simulator and remote sensing from model parameters â€“ Part 1: Synthetic sensor radiance formulation. Geoscientific Model Development, 2013, 6, 2049-2062.	3.6	14
120	Marine boundary layer cloud property retrievals from high-resolution ASTER observations: case studies and comparison with Terra MODIS. Atmospheric Measurement Techniques, 2016, 9, 5869-5894.	3.1	14
121	A superposition technique for deriving mean photon scattering statistics in plane-parallel cloudy atmospheres. Journal of Quantitative Spectroscopy and Radiative Transfer, 2001, 68, 57-73.	2.3	13
122	The Earth Observing System (EOS). , 2018, , 7-26.		13
123	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
124	Detecting opaque and nonopaque tropical upper tropospheric ice clouds: A trispectral technique based on the MODIS 8â€“12 Î¼m window bands. Journal of Geophysical Research, 2010, 115, .	3.3	12
125	The shortwave radiative forcing bias of liquid and ice clouds from MODIS observations. Atmospheric Chemistry and Physics, 2009, 9, 5865-5875.	4.9	11
126	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

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127	The Influence of Thermodynamic Phase on the Retrieval of Mixed-Phase Cloud Microphysical and Optical Properties in the Visible and Near-Infrared Region. IEEE Geoscience and Remote Sensing Letters, 2006, 3, 287-291.	3.1	10
128	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
129	Sensitivity of photolysis frequencies and key tropospheric oxidants in a global model to cloud vertical distributions and optical properties. Journal of Geophysical Research, 2009, 114, .	3.3	9
130	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
131	A pilot study of shortwave spectral fingerprints of smoke aerosols above liquid clouds. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 221, 38-50.	2.3	9
132	Remote Sensing of Terrestrial Clouds from Space using Backscattering and Thermal Emission Techniques. Physics of Earth and Space Environments, 2011, , 231-257.	0.5	9
133	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
134	Comparing irradiance fields derived from Moderate Resolution Imaging Spectroradiometer airborne simulator cirrus cloud retrievals with solar spectral flux radiometer measurements. Journal of Geophysical Research, 2007, 112, .	3.3	8
135	Cirrus cloud optical and microphysical property retrievals from eMAS during SEAC⁴RS using bi-spectral reflectance measurements within the 1.88â€¯Âµm water vapor absorption band. Atmospheric Measurement Techniques, 2016, 9, 1743-1753.	3.1	8
136	Sensitivity of Multispectral Imager Liquid Water Cloud Microphysical Retrievals to the Index of Refraction. Remote Sensing, 2020, 12, 4165.	4.0	8
137	GEWEX cloud assessment: A review. AIP Conference Proceedings, 2013, , .	0.4	7
138	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
139	Improving Cloud Optical Property Retrievals for Partly Cloudy Pixels Using Coincident Higherâ€Resolution Single Band Measurements: A Feasibility Study Using ASTER Observations. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,253-12,276.	3.3	7
140	Scale dependence of cirrus heterogeneity effects. Part II: MODIS NIR and SWIR channels. Atmospheric Chemistry and Physics, 2018, 18, 12105-12121.	4.9	7
141	Observation of absorbing aerosols above clouds over the south-east Atlantic Ocean from the geostationary satellite SEVIRI â€“ PartÂ2: Comparison with MODIS and aircraft measurements from the CLARIFY-2017 field campaign. Atmospheric Chemistry and Physics, 2021, 21, 3235-3254.	4.9	7
142	Multi-sensor cloud and aerosol retrieval simulator and remote sensing from model parameters â€“ Part 2: Aerosols. Geoscientific Model Development, 2016, 9, 2377-2389.	3.6	6
143	A fast hybrid (3â€Ð/1â€Ð) model for thermal radiative transfer in cirrus via successive orders of scattering. Journal of Geophysical Research D: Atmospheres, 2017, 122, 344-366.	3.3	6
144	Cirrus Horizontal Heterogeneity and 3â€Ð Radiative Effects on Cloud Optical Property Retrievals From MODIS Near to Thermal Infrared Channels as a Function of Spatial Resolution. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11,141.	3.3	6

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145	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
146	Airborne brightness temperature measurements of the polar winter troposphere as part of the Airborne Arctic Stratosphere Experiment II and the effect of brightness temperature variations on the diabatic heating in the lower stratosphere. Geophysical Research Letters, 1993, 20, 2575-2578.	4.0	4
147	The NASA enhanced MODIS airborne simulator. , 2011, , .		3
148	The CHIMAERA system for retrievals of cloud top, optical and microphysical properties from imaging sensors. Computers and Geosciences, 2020, 134, 104345.	4.2	3
149	<title>MODIS Airborne Simulator radiometric calibration</title>. , 1996, , .		2
150	<title>Effect of water vapor absorption on integrating sphere output radiance and consequences for instrument calibration</title>. , 1996, , .		2
151	An assessment of differences between cloud effective particle radius retrievals for marine water clouds from three MODIS spectral bands. , 2011, , .		2
152	Cirrus heterogeneity effects on cloud optical properties retrieved with an optimal estimation method from MODIS VIS to TIR channels. AIP Conference Proceedings, 2017, , .	0.4	2
153	Mulitlayer Cloud Detection in the MODIS Collection 5 Cloud Product. , 2007, , .		2
154	A framework for quantifying the impacts of sub-pixel reflectance variance and covariance on cloud optical thickness and effective radius retrievals based on the bi-spectral method. AIP Conference Proceedings, 2017, , .	0.4	1
155	Analysis of the MODIS above-cloud aerosol retrieval algorithm using MCARS. Geoscientific Model Development, 2022, 15, 1-14.	3.6	1
156	Comparison of in situ cirrus cloud water path and optical depth measurements with MODIS retrievals. , 2004, , .		0
157	Comparison of the MODIS Collection 5 Multilayer Cloud Detection Product with CALIPSO. , 2009, , .		0
158	The Shortwave Radiative Forcing Bias of Homogeneous Liquid and Ice Clouds Observed by MODIS. , 2009, , .		0
159	Contemplating synergistic algorithms for the NASA ACE Mission. Proceedings of SPIE, 2013, , .	0.8	0
160	Inference and Validation of Cloud Phase from MODIS, AIRS and CALIPSO Data. , 2007, , .		0
161	MODIS Cloud Optical Property Retrieval Uncertainties Derived from Pixel-Level Radiometric Error Estimates. , 2011, , .		0
162	Cirrus Retrievals with the MODIS 1.38 Î¼m Channel: Algorithm, Uncertainties, and Evaluation. , 2011, , .		0

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163	A Gas Absorption Parameterization Model for Hyperspectral Shortwave Radiative Transfer Computations. , 2019, , .		0