# Yongxiang Hu

#### List of Publications by Citations

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#	Paper	IF	Citations
243	Overview of the CALIPSO Mission and CALIOP Data Processing Algorithms. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2009</b> , 26, 2310-2323	2	1434
242	The CALIPSO Automated Aerosol Classification and Lidar Ratio Selection Algorithm. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2009</b> , 26, 1994-2014	2	646
241	An Accurate Parameterization of the Radiative Properties of Water Clouds Suitable for Use in Climate Models. <i>Journal of Climate</i> , <b>1993</b> , 6, 728-742	4.4	312
240	State of the art satellite and airborne marine oil spill remote sensing: Application to the BP Deepwater Horizon oil spill. <i>Remote Sensing of Environment</i> , <b>2012</b> , 124, 185-209	13.2	307
239	Summer dust aerosols detected from CALIPSO over the Tibetan Plateau. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	244
238	Scattering and absorption property database for nonspherical ice particles in the near-through far-infrared spectral region. <i>Applied Optics</i> , <b>2005</b> , 44, 5512-23	1.7	235
237	CALIPSO/CALIOP Cloud Phase Discrimination Algorithm. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2009</b> , 26, 2293-2309	2	233
236	Taklimakan dust aerosol radiative heating derived from CALIPSO observations using the Fu-Liou radiation model with CERES constraints. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 4011-4021	6.8	205
235	Occurrence, liquid water content, and fraction of supercooled water clouds from combined CALIOP/IIR/MODIS measurements. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		201
234	Bulk Scattering Properties for the Remote Sensing of Ice Clouds. Part II: Narrowband Models. Journal of Applied Meteorology and Climatology, <b>2005</b> , 44, 1896-1911		196
233	Fully automated analysis of space-based lidar data: an overview of the CALIPSO retrieval algorithms and data products <b>2004</b> , 5575, 16		193
232	Satellite-based assessment of possible dust aerosols semi-direct effect on cloud water path over East Asia. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	190
231	Possible influences of Asian dust aerosols on cloud properties and radiative forcing observed from MODIS and CERES. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	189
230	The CALIPSO Version 4 Automated Aerosol Classification and Lidar Ratio Selection Algorithm. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 6107-6135	4	178
229	Improvements in Shortwave Bulk Scattering and Absorption Models for the Remote Sensing of Ice Clouds. <i>Journal of Applied Meteorology and Climatology</i> , <b>2011</b> , 50, 1037-1056	2.7	152
228	CALIPSO lidar observations of the optical properties of Saharan dust: A case study of long-range transport. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		143
227	The depolarization - attenuated backscatter relation: CALIPSO lidar measurements vs. theory. <i>Optics Express</i> , <b>2007</b> , 15, 5327-32	3.3	143

226	3-D FEM simulation of laser shock processing. <i>Surface and Coatings Technology</i> , <b>2006</b> , 201, 1426-1435	4.4	106
225	Single-scattering properties of droxtals. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2003</b> , 79-80, 1159-1169	2.1	101
224	A vector radiative transfer model for coupled atmosphere and ocean systems with a rough interface. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2010</b> , 111, 1025-1040	2.1	99
223	Remote sensing of cloud properties using MODIS airborne simulator imagery during SUCCESS: 1. Data and models. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 11767-11780		98
222	Radiative impacts of clouds in the tropical tropopause layer. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		92
221	Estimating random errors due to shot noise in backscatter lidar observations. <i>Applied Optics</i> , <b>2006</b> , 45, 4437-47	1.7	90
220	Fit: A fast and accurate treatment of particle scattering phase functions with weighted singular-value decomposition least-squares fitting. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2000</b> , 65, 681-690	2.1	89
219	A vector radiative transfer model for coupled atmosphere and ocean systems based on successive order of scattering method. <i>Optics Express</i> , <b>2009</b> , 17, 2057-79	3.3	87
218	Annual boomBust cycles of polar phytoplankton biomass revealed by space-based lidar. <i>Nature Geoscience</i> , <b>2017</b> , 10, 118-122	18.3	86
217	Scattering and absorption of light by ice particles: Solution by a new physical-geometric optics hybrid method. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2011</b> , 112, 1492-1508	2.1	86
216	Evidence of mineral dust altering cloud microphysics and precipitation. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 3223-3231	6.8	82
215	The Iris Hypothesis: A Negative or Positive Cloud Feedback?. <i>Journal of Climate</i> , <b>2002</b> , 15, 3-7	4.4	81
214	Quantifying above-cloud aerosol using spaceborne lidar for improved understanding of cloudy-sky direct climate forcing. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		80
213	Overlapping rate effect on laser shock processing of 1045 steel by small spots with Nd:YAG pulsed laser. <i>Surface and Coatings Technology</i> , <b>2008</b> , 202, 1517-1525	4.4	76
212	Spaceborne Lidar in the Study of Marine Systems. Annual Review of Marine Science, 2018, 10, 121-147	15.4	72
211	Space-based lidar measurements of global ocean carbon stocks. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 4355-4360	4.9	71
210	Identification of cloud phase from PICASSO-CENA lidar depolarization: a multiple scattering sensitivity study. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2001</b> , 70, 569-579	2.1	71
209	Uncertainties Associated With the Surface Texture of Ice Particles in Satellite-Based Retrieval of Cirrus Clouds: Part II <b>E</b> ffect of Particle Surface Roughness on Retrieved Cloud Optical Thickness and Effective Particle Size. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2008</b> , 46, 1948-1957	8.1	70

208	Inference of ice cloud properties from high spectral resolution infrared observations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2004</b> , 42, 842-853	8.1	70
207	Radiative properties of cirrus clouds in the infrared (8¶spectral region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2001</b> , 70, 473-504	2.1	69
206	Depolarization ratio Iffective lidar ratio relation: Theoretical basis for space lidar cloud phase discrimination. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	67
205	Retrieval of semitransparent ice cloud optical thickness from atmospheric infrared sounder (AIRS) measurements. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2004</b> , 42, 2254-2267	8.1	67
204	Simple relation between lidar multiple scattering and depolarization for water clouds. <i>Optics Letters</i> , <b>2006</b> , 31, 1809-11	3	65
203	Detection of dust aerosol by combining CALIPSO active lidar and passive IIR measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 4241-4251	6.8	64
202	Sea surface wind speed estimation from space-based lidar measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 3593-3601	6.8	63
201	Dusty cloud properties and radiative forcing over dust source and downwind regions derived from A-Train data during the Pacific Dust Experiment. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		61
200	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> , <b>2008</b> , 46, 1940-1947	8.1	61
199	Inherent and apparent scattering properties of coated or uncoated spheres embedded in an absorbing host medium. <i>Applied Optics</i> , <b>2002</b> , 41, 2740-59	1.7	60
198	Retrieving Optical Depths and Lidar Ratios for Transparent Layers Above Opaque Water Clouds From CALIPSO Lidar Measurements. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2007</b> , 4, 523-526	4.1	59
197	Identifying the top of the tropical tropopause layer from vertical mass flux analysis and CALIPSO lidar cloud observations. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	59
196	The North Atlantic Aerosol and Marine Ecosystem Study (NAAMES): Science Motive and Mission Overview. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,	4.5	58
195	Geometrical-optics solution to light scattering by droxtal ice crystals. <i>Applied Optics</i> , <b>2004</b> , 43, 2490-9	1.7	58
194	Efficient and long-life green light-emitting diodes comprising tridentate thiol capped quantum dots. <i>Laser and Photonics Reviews</i> , <b>2017</b> , 11, 1600227	8.3	56
193	Application of deep convective cloud albedo observation to satellite-based study of the terrestrial atmosphere: monitoring the stability of spaceborne measurements and assessing absorption anomaly. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2004</b> , 42, 2594-2599	8.1	54
192	Sensitivity of cirrus bidirectional reflectance to vertical inhomogeneity of ice crystal habits and size distributions for two Moderate-Resolution Imaging Spectroradiometer (MODIS) bands. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 17267-17291		53
191	High Cloud Properties from Three Years of MODIS Terra and Aqua Collection-4 Data over the Tropics. <i>Journal of Applied Meteorology and Climatology</i> , <b>2007</b> , 46, 1840-1856	2.7	52

190	Are climate-related changes to the character of global-mean precipitation predictable?. <i>Environmental Research Letters</i> , <b>2010</b> , 5, 025209	6.2	51	
189	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> , <b>2007</b> , 7, 3353-3359	6.8	51	
188	How do A-train sensors intercompare in the retrieval of above-cloud aerosol optical depth? A case study-based assessment. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 186-192	4.9	50	
187	Depolarization ratio and attenuated backscatter for nine cloud types: analyses based on collocated CALIPSO lidar and MODIS measurements. <i>Optics Express</i> , <b>2008</b> , 16, 3931-48	3.3	50	
186	On the spectral dependence of backscatter from cirrus clouds: Assessing CALIOPB 1064 nm calibration assumptions using cloud physics lidar measurements. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		49	
185	Long-term variation of cloud droplet number concentrations from space-based Lidar. <i>Remote Sensing of Environment</i> , <b>2018</b> , 213, 144-161	13.2	49	
184	Evaluation of CALIOP 532 nm aerosol optical depth over opaque water clouds. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 1265-1288	6.8	47	
183	Sensitivity of the backscattering Mueller matrix to particle shape and thermodynamic phase. <i>Applied Optics</i> , <b>2003</b> , 42, 4389-95	1.7	47	
182	The impact of ice particle roughness on the scattering phase matrix. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2010</b> , 111, 2534-2549	2.1	45	
181	Simultaneous polarimeter retrievals of microphysical aerosol and ocean color parameters from the "MAPP" algorithm with comparison to high-spectral-resolution lidar aerosol and ocean products. <i>Applied Optics</i> , <b>2018</b> , 57, 2394-2413	1.7	44	
180	Numerical simulation and experimentation of overlapping laser shock processing with symmetry cell. <i>International Journal of Machine Tools and Manufacture</i> , <b>2008</b> , 48, 152-162	9.4	44	
179	Ocean subsurface studies with the CALIPSO spaceborne lidar. <i>Journal of Geophysical Research:</i> Oceans, <b>2014</b> , 119, 4305-4317	3.3	42	
178	Investigation on the non-homogeneity of residual stress field induced by laser shock peening. <i>Surface and Coatings Technology</i> , <b>2009</b> , 203, 3503-3508	4.4	42	
177	Retrieval of Ice Cloud Optical Thickness and Effective Particle Size Using a Fast Infrared Radiative Transfer Model. <i>Journal of Applied Meteorology and Climatology</i> , <b>2011</b> , 50, 2283-2297	2.7	42	
176	Simulation of the color ratio associated with the backscattering of radiation by ice particles at the wavelengths of 0.532 and 1.064 lb. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		41	
175	Laser peen forming induced two way bending of thin sheet metals and its mechanisms. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 073117	2.5	40	
174	Study of Horizontally Oriented Ice Crystals with CALIPSO Observations and Comparison with Monte Carlo Radiative Transfer Simulations. <i>Journal of Applied Meteorology and Climatology</i> , <b>2012</b> , 51, 1426-1439	2.7	39	
173	Global satellite-observed daily vertical migrations of ocean animals. <i>Nature</i> , <b>2019</b> , 576, 257-261	50.4	38	

172	Study of global cloud droplet number concentration with A-Train satellites. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 7125-7134	6.8	37
171	Effect of Cavities on the Optical Properties of Bullet Rosettes: Implications for Active and Passive Remote Sensing of Ice Cloud Properties. <i>Journal of Applied Meteorology and Climatology</i> , <b>2008</b> , 47, 231	1-2330	37
170	The Effect of Environmental Conditions on Tropical Deep Convective Systems Observed from the TRMM Satellite. <i>Journal of Climate</i> , <b>2006</b> , 19, 5745-5761	4.4	37
169	Spectral signature of ice clouds in the far-infrared region: Single-scattering calculations and radiative sensitivity study. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		37
168	Cirrus optical depth and lidar ratio retrieval from combined CALIPSO-CloudSat observations using ocean surface echo. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		36
167	Extinction-to-backscatter ratios of Saharan dust layers derived from in situ measurements and CALIPSO overflights during NAMMA. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		34
166	Sensitivity of depolarized lidar signals to cloud and aerosol particle properties. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2006</b> , 100, 470-482	2.1	32
165	Quantifying the low bias of CALIPSOB column aerosol optical depth due to undetected aerosol layers. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 1098-1113	4.4	30
164	Simulation of the optical properties of plate aggregates for application to the remote sensing of cirrus clouds. <i>Applied Optics</i> , <b>2011</b> , 50, 1065-81	0.2	30
163	A study of subvisual clouds and their radiation effect with a synergy of CERES, MODIS, CALIPSO, and AIRS data. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		30
162	Effect of the inhomogeneity of ice crystals on retrieving ice cloud optical thickness and effective particle size. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		30
161	The Development of Midlatitude Cirrus Models for MODIS Using FIRE-I, FIRE-II, and ARM In Situ Data. <i>Journal of Applied Meteorology and Climatology</i> , <b>2002</b> , 41, 197-217		30
160	Experimental study of micro dimple fabrication based on laser shock processing. <i>Optics and Laser Technology</i> , <b>2013</b> , 48, 216-225	4.2	29
159	Retrieval of aerosol properties and water-leaving reflectance from multi-angular polarimetric measurements over coastal waters. <i>Optics Express</i> , <b>2018</b> , 26, 8968-8989	3.3	28
158	Numerical Studies of Scattering Properties of Leaves and Leaf Moisture Influences on the Scattering at Microwave Wavelengths. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2008</b> , 46, 353-360	8.1	28
157	Elevation information in tail (EIT) technique for lidar altimetry. <i>Optics Express</i> , <b>2007</b> , 15, 14504-15	3.3	28
156	CALIPSO lidar calibration at 1064 nm: version 4 algorithm. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 51-82	4	28
155	Estimations of global shortwave direct aerosol radiative effects above opaque water clouds using a combination of A-Train satellite sensors. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 4933-4962	6.8	27

## (2009-2013)

154	Differences in plasticity due to curvature in laser peened components. <i>Surface and Coatings Technology</i> , <b>2013</b> , 235, 648-656	4.4	27
153	Transpacific transport and evolution of the optical properties of Asian dust. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2013</b> , 116, 24-33	2.1	27
152	Cloud ice water content retrieved from the CALIOP space-based lidar. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	27
151	A new method for retrieval of the extinction coefficient of water clouds by using the tail of the CALIOP signal. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 2903-2916	6.8	27
150	Discriminating between spherical and non-spherical scatterers with lidar using circular polarization: a theoretical study. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2003</b> , 79-80, 757-764	2.1	27
149	The spectral signature of mixed-phase clouds composed of non-spherical ice crystals and spherical liquid droplets in the terrestrial window region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2003</b> , 79-80, 1171-1188	2.1	27
148	Scattered-field FDTD and PSTD algorithms with CPML absorbing boundary conditions for light scattering by aerosols. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2013</b> , 131, 166-174	2.1	25
147	Assessment of global annual atmospheric energy balance from satellite observations. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		24
146	The Sensitivity of Ice Cloud Optical and Microphysical Passive Satellite Retrievals to Cloud Geometrical Thickness. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2007</b> , 45, 1315-1323	8.1	24
145	Use of circular cylinders as surrogates for hexagonal pristine ice crystals in scattering calculations at infrared wavelengths. <i>Applied Optics</i> , <b>2003</b> , 42, 2653-64	1.7	24
144	Asymptotic solutions for optical properties of large particles with strong absorption. <i>Applied Optics</i> , <b>2001</b> , 40, 1532-47	1.7	24
143	Retrieval of ocean subsurface particulate backscattering coefficient from space-borne CALIOP lidar measurements. <i>Optics Express</i> , <b>2016</b> , 24, 29001-29008	3.3	23
142	Antarctic spring ice-edge blooms observed from space by ICESat-2. <i>Remote Sensing of Environment</i> , <b>2020</b> , 245, 111827	13.2	21
141	Vector radiative transfer model for coupled atmosphere and ocean systems including inelastic sources in ocean waters. <i>Optics Express</i> , <b>2017</b> , 25, A223-A239	3.3	21
140	Estimations of climate sensitivity based on top-of-atmosphere radiation imbalance. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 1923-1930	6.8	21
139	Deriving Marine-Boundary-Layer Lapse Rate from Collocated CALIPSO, MODIS, and AMSR-E Data to Study Global Low-Cloud Height Statistics. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2008</b> , 5, 649-652	4.1	21
138	Three-Dimensional Numerical Simulation and Experimental Study of Sheet Metal Bending by Laser Peen Forming. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2010</b> , 132,	3.3	20
137	Estimates of radiation over clouds and dust aerosols: Optimized number of terms in phase function expansion. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2009</b> , 110, 1190-1198	2.1	20

136	Radiative effects of African dust and smoke observed from Clouds and the Earth® Radiant Energy System (CERES) and Cloud-Aerosol Lidar with Orthogonal Polarization (CALIOP) data. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		20
135	A fast infrared radiative transfer model for overlapping clouds. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2007</b> , 103, 447-459	2.1	20
134	The hemispheric contrast in cloud microphysical properties constrains aerosol forcing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 18998-19006	11.5	20
133	Water-leaving contribution to polarized radiation field over ocean. <i>Optics Express</i> , <b>2017</b> , 25, A689-A708	3.3	19
132	A new look at anomalous diffraction theory (ADT): Algorithm in cumulative projected-area distribution domain and modified ADT. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2004</b> , 89, 421-442	2.1	19
131	Ice cloud backscatter study and comparison with CALIPSO and MODIS satellite data. <i>Optics Express</i> , <b>2016</b> , 24, 620-36	3.3	18
130	Inherent optical properties of the coccolithophore: Emiliania huxleyi. <i>Optics Express</i> , <b>2013</b> , 21, 17625-38	3.3	18
129	Diffraction and external reflection by dielectric faceted particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2011</b> , 112, 163-173	2.1	18
128	A fast infrared radiative transfer model based on the adding@oubling method for hyperspectral remote-sensing applications. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2007</b> , 105, 243	3-2-2-63	18
127	Technique to separate lidar signal and sunlight. <i>Optics Express</i> , <b>2016</b> , 24, 12949-54	3.3	18
126	Retrievals of cloud droplet size from the research scanning polarimeter data: Validation using in situ measurements. <i>Remote Sensing of Environment</i> , <b>2018</b> , 210, 76-95	13.2	17
125	Numerical simulations of radar surface air pressure measurements at O/sub 2/ bands. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2005</b> , 2, 324-328	4.1	17
124	Determination of ice cloud models using MODIS and MISR data. <i>International Journal of Remote Sensing</i> , <b>2012</b> , 33, 4219-4253	3.1	16
123	The impact of ice cloud particle microphysics on the uncertainty of ice water content retrievals.  Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 189-196	2.1	16
122	Initial flight test results of differential absorption barometric radar for remote sensing of sea surface air pressure. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2011</b> , 112, 247-253	2.1	16
121	Enhanced lidar backscattering by quasi-horizontally oriented ice crystal plates in cirrus clouds.  Journal of Quantitative Spectroscopy and Radiative Transfer, 2003, 79-80, 1139-1157	2.1	16
120	Multi-Instrument Calibration Method Based on a Multiwavelength Ocean Surface Model. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2010</b> , 7, 195-199	4.1	15
119	Examination of the Decadal Tropical MeanERBSNonscanner Radiation Data for the Iris Hypothesis. Journal of Climate, <b>2004</b> , 17, 1239-1246	4.4	15

## (2015-2017)

118	A FDTD solution of scattering of laser beam with orbital angular momentum by dielectric particles: Far-field characteristics. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2017</b> , 188, 200-21	3 <sup>2.1</sup>	14	
117	Airborne and shipborne polarimetric measurements over open ocean and coastal waters: intercomparisons and implications for spaceborne observations. <i>Remote Sensing of Environment</i> , <b>2018</b> , 206, 375-390	13.2	14	
116	Impacts of mineral dust on ice clouds in tropical deep convection systems. <i>Atmospheric Research</i> , <b>2014</b> , 143, 64-72	5.4	14	
115	Using observations of deep convective systems to constrain atmospheric column absorption of solar radiation in the optically thick limit. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		14	
114	CALIOP V4 cloud thermodynamic phase assignment and the impact of near-nadir viewing angles. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 4539-4563	4	14	
113	Combined Atmospheric and Ocean Profiling from an Airborne High Spectral Resolution Lidar. <i>EPJ Web of Conferences</i> , <b>2016</b> , 119, 22001	0.3	14	
112	Grand Challenges in Satellite Remote Sensing. Frontiers in Remote Sensing, 2021, 2,	1	14	
111	High cloud coverage over melted areas dominates the impact of clouds on the albedo feedback in the Arctic. <i>Scientific Reports</i> , <b>2019</b> , 9, 9529	4.9	13	
110	Estimation of the cirrus cloud scattering phase function from satellite observations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2014</b> , 138, 36-49	2.1	13	
109	Impact of a cloud thermodynamic phase parameterization based on CALIPSO observations on climate simulation. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		13	
108	CALIPSO lidar ratio retrieval over the ocean. <i>Optics Express</i> , <b>2011</b> , 19, 18696-706	3.3	13	
107	Do contrails significantly reduce daily temperature range?. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	13	
106	Contribution of Raman scattering to polarized radiation field in ocean waters. <i>Optics Express</i> , <b>2015</b> , 23, 23582-96	3.3	12	
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