

Yongxiang Hu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

243
papers

10,634
citations

52
h-index

97
g-index

290
ext. papers

12,419
ext. citations

4.1
avg, IF

5.95
L-index

#	Paper	IF	Citations
243	Partially melting droplets strongly enhance lidar backscatter. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022 , 281, 108107	2.1	1
242	An improved pseudo spherical shell algorithm for vector radiative transfer. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022 , 282, 108132	2.1	2
241	Identifying Aerosol Subtypes from CALIPSO Lidar Profiles Using Deep Machine Learning. <i>Atmosphere</i> , 2021 , 12, 10	2.7	3
240	New Ocean Subsurface Optical Properties From Space Lidars: CALIOP/CALIPSO and ATLAS/ICESat-2. <i>Earth and Space Science</i> , 2021 , 8, e2021EA001839	3.1	4
239	Carbon-dioxide absorption spectroscopy with solar photon counting and integrated lithium niobate micro-ring resonator. <i>Applied Physics Letters</i> , 2021 , 118, 171103	3.4	1
238	Active remote sensing of atmospheric dust using relationships between their depolarization ratios and reflectivity. <i>Optics Letters</i> , 2021 , 46, 2352-2355	3	0
237	Efficient multi-angle polarimetric inversion of aerosols and ocean color powered by a deep neural network forward model. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 4083-4110	4	6
236	Enabling Value Added Scientific Applications of ICESat-2 Data With Effective Removal of Afterpulses. <i>Earth and Space Science</i> , 2021 , 8, e2021EA001729	3.1	8
235	Assessing surface air pressure sensing using 118 GHz O ₂ -absorption radar system. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 261, 107425	2.1	0
234	Atmospheric correction over the ocean for hyperspectral radiometers using multi-angle polarimetric retrievals. <i>Optics Express</i> , 2021 , 29, 4504-4522	3.3	1
233	Grand Challenges in Satellite Remote Sensing. <i>Frontiers in Remote Sensing</i> , 2021 , 2,	1	14
232	Global Ocean Studies from CALIOP/CALIPSO by Removing Polarization Crosstalk Effects. <i>Remote Sensing</i> , 2021 , 13, 2769	5	2
231	Quantum parametric mode sorting: a case study on small angle scattering. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021 , 38, D15	1.7	
230	Simultaneous Aerosol and Ocean Properties From the PolCube CubeSat Polarimeter. <i>Frontiers in Remote Sensing</i> , 2021 , 2,	1	1
229	Liquid Phase Cloud Microphysical Property Estimates From CALIPSO Measurements. <i>Frontiers in Remote Sensing</i> , 2021 , 2,	1	3
228	Advances in atmospheric light scattering and radiative transfer. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 274, 107862	2.1	
227	Discrimination of Biomass-Burning Smoke From Clouds Over the Ocean Using MODIS Measurements. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-10	8.1	

226	Neural Network Reflectance Prediction Model for Both Open Ocean and Coastal Waters. <i>Remote Sensing</i> , 2020 , 12, 1421	5	7
225	Antarctic spring ice-edge blooms observed from space by ICESat-2. <i>Remote Sensing of Environment</i> , 2020 , 245, 111827	13.2	21
224	Method to retrieve aerosol extinction profiles and aerosol scattering phase functions with a modified CCD laser atmospheric detection system. <i>Optics Express</i> , 2020 , 28, 6631-6647	3.3	5
223	Inversion of multiangular polarimetric measurements from the ACEPOL campaign: an application of improving aerosol property and hyperspectral ocean color retrievals. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 3939-3956	4	8
222	CALIOP V4 cloud thermodynamic phase assignment and the impact of near-nadir viewing angles. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 4539-4563	4	14
221	New attenuated backscatter profile by removing the CALIOP receiver's transient response. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 255, 107244	2.1	5
220	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> , 2020 , 117, 18998-19006	11.5	20
219	On the Frequency of Occurrence of the Ice Phase in Supercooled Southern Ocean Low Clouds Derived From CALIPSO and CloudSat. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087554	4.9	10
218	Changes in clouds and atmospheric circulation associated with rapid adjustment induced by increased atmospheric CO ₂ : a multiscale modeling framework study. <i>Climate Dynamics</i> , 2020 , 55, 277-293	4.2	2
217	Inversion of multiangular polarimetric measurements over open and coastal ocean waters: a joint retrieval algorithm for aerosol and water-leaving radiance properties. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 3921-3941	4	10
216	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> , 2019 , 19, 4933-4962	6.8	27
215	Application of high-dimensional fuzzy <i>k</i>-means cluster analysis to CALIOP/CALIPSO version 4.1 cloud-aerosol discrimination. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 2261-2285	4	7
214	The North Atlantic Aerosol and Marine Ecosystem Study (NAAMES): Science Motive and Mission Overview. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	58
213	Cloud remote sensing with EPIC/DSCOVR observations: A sensitivity study with radiative transfer simulations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 230, 56-60	2.1	2
212	High cloud coverage over melted areas dominates the impact of clouds on the albedo feedback in the Arctic. <i>Scientific Reports</i> , 2019 , 9, 9529	4.9	13
211	An Efficient Method for Microphysical Property Retrievals in Vertically Inhomogeneous Marine Water Clouds Using MODIS-CloudSat Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 2174-2193	4.4	3
210	Ocean Subsurface Study from ICESat-2 Mission 2019 ,		1
209	Convective Aggregation and Indices Examined from CERES Cloud Object Data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 13604-13624	4.4	2

208	Global satellite-observed daily vertical migrations of ocean animals. <i>Nature</i> , 2019 , 576, 257-261	50.4	38
207	Technical note: A simple method for retrieval of dust aerosol optical depth with polarized reflectance over oceans. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 15583-15586	6.8	2
206	CALIPSO lidar calibration at 1064 nm: version 4 algorithm. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 51-82	4	28
205	Modeling polarized solar radiation from a snow surface for correction of polarization-induced error in satellite data. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 222-223, 154-169	2.1	3
204	Fully reflective photon sieve. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 206, 101-104	104	3
203	Airborne and shipborne polarimetric measurements over open ocean and coastal waters: intercomparisons and implications for spaceborne observations. <i>Remote Sensing of Environment</i> , 2018 , 206, 375-390	13.2	14
202	On the Use of CALIPSO Land Surface Returns to Retrieve Aerosol and Cloud Optical Depths. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018 , 56, 3256-3264	8.1	3
201	Retrievals of cloud droplet size from the research scanning polarimeter data: Validation using in situ measurements. <i>Remote Sensing of Environment</i> , 2018 , 210, 76-95	13.2	17
200	Spaceborne Lidar in the Study of Marine Systems. <i>Annual Review of Marine Science</i> , 2018 , 10, 121-147	15.4	72
199	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> , 2018 , 57, 2394-2413	1.7	44
198	Retrieval of aerosol properties and water-leaving reflectance from multi-angular polarimetric measurements over coastal waters. <i>Optics Express</i> , 2018 , 26, 8968-8989	3.3	28
197	Single scattering properties of non-spherical hydrosols modeled by spheroids. <i>Optics Express</i> , 2018 , 26, A124-A135	3.3	3
196	Harnessing remote sensing to address critical science questions on ocean-atmosphere interactions. <i>Elementa</i> , 2018 , 6,	3.6	11
195	Laser pulse bidirectional reflectance from CALIPSO mission. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 3281-3296	4	9
194	The CALIPSO Version 4 Automated Aerosol Classification and Lidar Ratio Selection Algorithm. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 6107-6135	4	178
193	Polarimetric Technique for Satellite Remote Sensing of Superthin Clouds 2018 , 153-174		
192	Does orbital angular momentum have effect on laser scattering by molecular atmosphere?. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 220, 119-122	2.1	1
191	Optimizing cirrus optical depth retrievals over the ocean from collocated CALIPSO and AMSR-E observations. <i>Applied Optics</i> , 2018 , 57, 7472-7481	1.7	0

190	Radiative Transfer Modeling of Phytoplankton Fluorescence Quenching Processes. <i>Remote Sensing</i> , 2018 , 10, 1309	5	10
189	Long-term variation of cloud droplet number concentrations from space-based Lidar. <i>Remote Sensing of Environment</i> , 2018 , 213, 144-161	13.2	49
188	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> , 2017 , 188, 200-213	2.1	14
187	Quantifying the low bias of CALIPSO's column aerosol optical depth due to undetected aerosol layers. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 1098-1113	4.4	30
186	Observations of Arctic snow and sea ice cover from CALIOP lidar measurements. <i>Remote Sensing of Environment</i> , 2017 , 194, 248-263	13.2	11
185	Annual boom-bust cycles of polar phytoplankton biomass revealed by space-based lidar. <i>Nature Geoscience</i> , 2017 , 10, 118-122	18.3	86
184	Efficient and long-life green light-emitting diodes comprising tridentate thiol capped quantum dots. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1600227	8.3	56
183	Creating Aerosol Types from CHEMISTRY (CATCH): A New Algorithm to Extend the Link Between Remote Sensing and Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 12,366-12,392	4.4	2
182	A coupling model to simulate the dynamic process of blister-actuated nanosecond laser-induced forward transfer. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 325305	3	4
181	Water-leaving contribution to polarized radiation field over ocean. <i>Optics Express</i> , 2017 , 25, A689-A708	3.3	19
180	Equivalence of internal and external mixture schemes of single scattering properties in vector radiative transfer. <i>Applied Optics</i> , 2017 , 56, 4105-4112	0.2	3
179	Vector radiative transfer model for coupled atmosphere and ocean systems including inelastic sources in ocean waters. <i>Optics Express</i> , 2017 , 25, A223-A239	3.3	21
178	Fully transparent photon sieve. <i>Optics Express</i> , 2017 , 25, 17356-17363	3.3	8
177	Ice cloud backscatter study and comparison with CALIPSO and MODIS satellite data. <i>Optics Express</i> , 2016 , 24, 620-36	3.3	18
176	Cloud-Aerosol Interactions: Retrieving Aerosol Angstrom Exponents from Calipso Measurements of Opaque Water Clouds. <i>EPJ Web of Conferences</i> , 2016 , 119, 11001	0.3	2
175	Modeling polarized solar radiation of the ocean-atmosphere system for satellite remote sensing applications 2016 , 163-196		
174	Truncation of the scattering phase matrix for vector radiative transfer simulation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016 , 183, 70-77	2.1	8
173	Combined Atmospheric and Ocean Profiling from an Airborne High Spectral Resolution Lidar. <i>EPJ Web of Conferences</i> , 2016 , 119, 22001	0.3	14

172	Retrieval of ocean subsurface particulate backscattering coefficient from space-borne CALIOP lidar measurements. <i>Optics Express</i> , 2016 , 24, 29001-29008	3.3	23
171	Aerosol optical depth under "clear" sky conditions derived from sea surface reflection of lidar signals. <i>Optics Express</i> , 2016 , 24, A1618-A1634	3.3	4
170	Forest Canopy Height Estimation from Calipso Lidar Measurement. <i>EPJ Web of Conferences</i> , 2016 , 119, 22005	0.3	1
169	Ocean Lidar Measurements of Beam Attenuation and a Roadmap to Accurate Phytoplankton Biomass Estimates. <i>EPJ Web of Conferences</i> , 2016 , 119, 22003	0.3	5
168	Aerosol Optical Properties Above Opaque Water Clouds Derived From The Caliop Version 4 Level 1 Data. <i>EPJ Web of Conferences</i> , 2016 , 119, 04010	0.3	1
167	An Experiment-Based Model to Determine Eigenstrain in Fibre Metal Laminates Induced by Laser Peen Forming 2016 ,		1
166	Technique to separate lidar signal and sunlight. <i>Optics Express</i> , 2016 , 24, 12949-54	3.3	18
165	Ocean and polarization observations from active remote sensing: atmospheric and ocean science applications 2015 ,		3
164	Uncertainty in the bidirectional reflectance model for oceanic waters 2015 , 54, 4061		7
163	Contribution of Raman scattering to polarized radiation field in ocean waters. <i>Optics Express</i> , 2015 , 23, 23582-96	3.3	12
162	Application of surface pressure measurements of O2-band differential absorption radar system in three-dimensional data assimilation on hurricane: Part II A quasi-observational study. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015 , 150, 166-174	2.1	5
161	Application of surface pressure measurements from O2-band differential absorption radar system in three-dimensional data assimilation on hurricane: Part I An observing system simulation experiments study. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015 , 150, 148-165	2.1	6
160	Deriving polarization properties of desert-reflected solar spectra with PARASOL data. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 7725-7734	6.8	7
159	A method to retrieve super-thin cloud optical depth over ocean background with polarized sunlight. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 11909-11918	6.8	11
158	Evaluation of CALIOP 532 nm aerosol optical depth over opaque water clouds. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 1265-1288	6.8	47
157	Impacts of mineral dust on ice clouds in tropical deep convection systems. <i>Atmospheric Research</i> , 2014 , 143, 64-72	5.4	14
156	Sensing Hadley cell with space-borne lidar. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014 , 148, 38-41	2.1	1
155	Estimation of the cirrus cloud scattering phase function from satellite observations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014 , 138, 36-49	2.1	13

154	Study of global cloud droplet number concentration with A-Train satellites. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 7125-7134	6.8	37
153	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> , 2014 , 41, 186-192	4.9	50
152	Ocean subsurface studies with the CALIPSO spaceborne lidar. <i>Journal of Geophysical Research: Oceans</i> , 2014 , 119, 4305-4317	3.3	42
151	Accuracy of land surface elevation from CALIPSO mission data. <i>Optical Engineering</i> , 2014 , 54, 031102	1.1	1
150	Double-beam near-infrared spectroscopy to correct light source drift in aqueous glucose solution experiments. <i>Analytical Methods</i> , 2014 , 6, 9831-9840	3.2	7
149	A Super-Resolution Laser Altimetry Concept. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014 , 11, 298-302	3.0	7
148	Analysis of Water Vapor Correction for CloudSat W-Band Radar. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013 , 51, 3812-3825	8.1	4
147	Differences in plasticity due to curvature in laser peened components. <i>Surface and Coatings Technology</i> , 2013 , 235, 648-656	4.4	27
146	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> , 2013 , 131, 166-174	2.1	25
145	Space-based lidar measurements of global ocean carbon stocks. <i>Geophysical Research Letters</i> , 2013 , 40, 4355-4360	4.9	71
144	Uncertainty and interpretation of aerosol remote sensing due to vertical inhomogeneity. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013 , 114, 91-100	2.1	8
143	Advanced angular interpolation in the vector radiative transfer for coupled atmosphere and ocean systems. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013 , 115, 19-27	2.1	10
142	Experimental study of micro dimple fabrication based on laser shock processing. <i>Optics and Laser Technology</i> , 2013 , 48, 216-225	4.2	29
141	Is Oklahoma getting drier?. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013 , 122, 208-213	2.1	3
140	Simulation of coherent Doppler wind lidar measurement from space based on CALIPSO lidar global aerosol observations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013 , 122, 79-86	2.1	2
139	Transpacific transport and evolution of the optical properties of Asian dust. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013 , 116, 24-33	2.1	27
138	Inherent optical properties of the coccolithophore: <i>Emiliana huxleyi</i> . <i>Optics Express</i> , 2013 , 21, 17625-38	3.3	18
137	Water Surface Topography Retrieved from Color Images*. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013 , 30, 846-860	2	3

136	CALIOP receiver transient response study 2013 ,		4
135	Comment on the transmission matrix for a dielectric interface. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012 , 113, 1981-1984	2.1	8
134	Determination of ice cloud models using MODIS and MISR data. <i>International Journal of Remote Sensing</i> , 2012 , 33, 4219-4253	3.1	16
133	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> , 2012 , 124, 185-209	13.2	307
132	Cloud ice water content retrieved from the CALIOP space-based lidar. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	27
131	Cirrus optical depth and lidar ratio retrieval from combined CALIPSO-CloudSat observations using ocean surface echo. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		36
130	Impact of a cloud thermodynamic phase parameterization based on CALIPSO observations on climate simulation. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		13
129	Exact first order scattering correction for vector radiative transfer in coupled atmosphere and ocean systems 2012 ,		3
128	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> , 2012 , 51, 1426-1439	2.7	39
127	Method of surface topography retrieval by direct solution of sparse weighted seminormal equations. <i>Optics Express</i> , 2012 , 20, 1714-26	3.3	3
126	Finite-difference time-domain solution of light scattering by arbitrarily shaped particles and surfaces 2012 , 75-113		1
125	Simulation of the optical properties of plate aggregates for application to the remote sensing of cirrus clouds. <i>Applied Optics</i> , 2011 , 50, 1065-81	0.2	30
124	CALIPSO lidar ratio retrieval over the ocean. <i>Optics Express</i> , 2011 , 19, 18696-706	3.3	13
123	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> , 2011 , 11, 2903-2916	6.8	27
122	Topographic mapping flash lidar for multiple scattering, terrain, and forest mapping 2011 ,		4
121	On the consistency of CERES longwave flux and AIRS temperature and humidity profiles. <i>Journal of Geophysical Research</i> , 2011 , 116,		12
120	Global cloud-layer distribution statistics from 1 year CALIPSO lidar observations. <i>International Journal of Remote Sensing</i> , 2011 , 32, 1269-1288	3.1	12
119	Diffraction and external reflection by dielectric faceted particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011 , 112, 163-173	2.1	18

118	Beyond Snell's law: Refraction of a nano-beam of light. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011 , 112, 174-176	2.1	5
117	Can climate sensitivity be estimated from short-term relationships of top-of-atmosphere net radiation and surface temperature?. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011 , 112, 177-181	2.1	5
116	The impact of ice cloud particle microphysics on the uncertainty of ice water content retrievals. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011 , 112, 189-196	2.1	16
115	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> , 2011 , 112, 247-253	2.1	16
114	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> , 2011 , 112, 1492-1508	2.1	86
113	Dependence of extinction cross-section on incident polarization state and particle orientation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011 , 112, 2035-2039	2.1	12
112	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> , 2011 , 116, n/a-n/a		30
111	Improvements in Shortwave Bulk Scattering and Absorption Models for the Remote Sensing of Ice Clouds. <i>Journal of Applied Meteorology and Climatology</i> , 2011 , 50, 1037-1056	2.7	152
110	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> , 2011 , 50, 2283-2297	2.7	42
109	Are climate-related changes to the character of global-mean precipitation predictable?. <i>Environmental Research Letters</i> , 2010 , 5, 025209	6.2	51
108	Laser peen forming induced two way bending of thin sheet metals and its mechanisms. <i>Journal of Applied Physics</i> , 2010 , 108, 073117	2.5	40
107	Radiation characteristics of low and high clouds in different oceanic regions observed by CERES and MODIS. <i>International Journal of Remote Sensing</i> , 2010 , 31, 6473-6492	3.1	6
106	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> , 2010 , 132,	3.3	20
105	Occurrence, liquid water content, and fraction of supercooled water clouds from combined CALIOP/IIR/MODIS measurements. <i>Journal of Geophysical Research</i> , 2010 , 115,		201
104	Radiative impacts of clouds in the tropical tropopause layer. <i>Journal of Geophysical Research</i> , 2010 , 115,		92
103	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> , 2010 , 115,		49
102	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> , 2010 , 115,		61
101	Extinction-to-backscatter ratios of Saharan dust layers derived from in situ measurements and CALIPSO overflights during NAMMA. <i>Journal of Geophysical Research</i> , 2010 , 115,		34

100	Lidar equation for ocean surface and subsurface. <i>Optics Express</i> , 2010 , 18, 20862-75	3.3	11
99	The impact of ice particle roughness on the scattering phase matrix. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010 , 111, 2534-2549	2.1	45
98	Detection of dust aerosol by combining CALIPSO active lidar and passive IIR measurements. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 4241-4251	6.8	64
97	Estimations of climate sensitivity based on top-of-atmosphere radiation imbalance. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 1923-1930	6.8	21
96	Multi-Instrument Calibration Method Based on a Multiwavelength Ocean Surface Model. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2010 , 7, 195-199	4.1	15
95	A vector radiative transfer model for coupled atmosphere and ocean systems with a rough interface. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010 , 111, 1025-1040	2.1	99
94	Decoupling error for the atmospheric correction in ocean color remote sensing algorithms. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010 , 111, 1958-1963	2.1	3
93	CALIPSO/CALIOP Cloud Phase Discrimination Algorithm. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009 , 26, 2293-2309	2	233
92	Investigation on the non-homogeneity of residual stress field induced by laser shock peening. <i>Surface and Coatings Technology</i> , 2009 , 203, 3503-3508	4.4	42
91	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> , 2009 , 110, 1190-1198	2.1	20
90	The CALIPSO Automated Aerosol Classification and Lidar Ratio Selection Algorithm. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009 , 26, 1994-2014	2	646
89	Overview of the CALIPSO Mission and CALIOP Data Processing Algorithms. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009 , 26, 2310-2323	2	1434
88	A vector radiative transfer model for coupled atmosphere and ocean systems based on successive order of scattering method. <i>Optics Express</i> , 2009 , 17, 2057-79	3.3	87
87	Simulation of the color ratio associated with the backscattering of radiation by ice particles at the wavelengths of 0.532 and 1.064 μm . <i>Journal of Geophysical Research</i> , 2009 , 114,		41
86	Radiative effects of African dust and smoke observed from Clouds and the Earth's Radiant Energy System (CERES) and Cloud-Aerosol Lidar with Orthogonal Polarization (CALIOP) data. <i>Journal of Geophysical Research</i> , 2009 , 114,		20
85	An Analytical Model to Predict Residual Stress Field Induced by Laser Shock Peening. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2009 , 131,	3.3	10
84	Effect of the inhomogeneity of ice crystals on retrieving ice cloud optical thickness and effective particle size. <i>Journal of Geophysical Research</i> , 2009 , 114,		30
83	Taklimakan dust aerosol radiative heating derived from CALIPSO observations using the Fu-Liou radiation model with CERES constraints. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 4011-4021	6.8	205

82	Evidence of mineral dust altering cloud microphysics and precipitation. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 3223-3231	6.8	82
81	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> , 2008 , 46, 353-360	8.1	28
80	Uncertainties Associated With the Surface Texture of Ice Particles in Satellite-Based Retrieval of Cirrus Clouds Part I: Single-Scattering Properties of Ice Crystals With Surface Roughness. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008 , 46, 1940-1947	8.1	61
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4	CALIPSO Lidar Calibration at 1064 nm: Version 4 Algorithm		4
3	Inversion of multi-angular polarimetric measurements over open and coastal ocean waters: a joint retrieval algorithm for aerosol and water leaving radiance properties		2
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