

Ping Yang

List of Publications by Year in descending order

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381
papers

18,116
citations

15466

65
h-index

22102

113
g-index

390
all docs

390
docs citations

390
times ranked

7830
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of spheroid models to account for aerosol particle nonsphericity in remote sensing of desert dust. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	1,195
2	The MODIS Cloud Optical and Microphysical Products: Collection 6 Updates and Examples From Terra and Aqua. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 502-525.	2.7	489
3	Geometric-opticsâ€”integral-equation method for light scattering by nonspherical ice crystals. <i>Applied Optics</i> , 1996, 35, 6568.	2.1	410
4	CERES Edition-2 Cloud Property Retrievals Using TRMM VIRS and Terra and Aqua MODIS Dataâ€”Part I: Algorithms. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 4374-4400.	2.7	410
5	Non-spherical aerosol retrieval method employing light scattering by spheroids. <i>Geophysical Research Letters</i> , 2002, 29, 54-1-54-4.	1.5	404
6	Spectrally Consistent Scattering, Absorption, and Polarization Properties of Atmospheric Ice Crystals at Wavelengths from 0.2 to 100 μ m. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 330-347.	0.6	358
7	Determination of complex refractive index of polystyrene microspheres from 370 to 1610 nm. <i>Physics in Medicine and Biology</i> , 2003, 48, 4165-4172.	1.6	319
8	Finite-difference time domain method for light scattering by small ice crystals in three-dimensional space. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1996, 13, 2072.	0.8	317
9	An Accurate Parameterization of the Infrared Radiative Properties of Cirrus Clouds for Climate Models. <i>Journal of Climate</i> , 1998, 11, 2223-2237.	1.2	298
10	Scattering and absorption property database for nonspherical ice particles in the near- through far-infrared spectral region. <i>Applied Optics</i> , 2005, 44, 5512.	2.1	284
11	CALIPSO/CALIOP Cloud Phase Discrimination Algorithm. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009, 26, 2293-2309.	0.5	261
12	Parameterization of the scattering and absorption properties of individual ice crystals. <i>Journal of Geophysical Research</i> , 2000, 105, 4699-4718.	3.3	244
13	Bulk Scattering Properties for the Remote Sensing of Ice Clouds. Part I: Microphysical Data and Models. <i>Journal of Applied Meteorology and Climatology</i> , 2005, 44, 1885-1895.	1.7	220
14	Bulk Scattering Properties for the Remote Sensing of Ice Clouds. Part II: Narrowband Models. <i>Journal of Applied Meteorology and Climatology</i> , 2005, 44, 1896-1911.	1.7	216
15	MODIS Cloud-Top Property Refinements for Collection 6. <i>Journal of Applied Meteorology and Climatology</i> , 2012, 51, 1145-1163.	0.6	192
16	Waterâ€”vapor climate feedback inferred from climate fluctuations, 2003â€”2008. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	187
17	Modeling of the scattering and radiative properties of nonspherical dust-like aerosols. <i>Journal of Aerosol Science</i> , 2007, 38, 995-1014.	1.8	180
18	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.	0.6	175

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19	The depolarization - attenuated backscatter relation: CALIPSO lidar measurements vs. theory. <i>Optics Express</i> , 2007, 15, 5327.	1.7	167
20	Remote sensing of cloud properties using MODIS airborne simulator imagery during SUCCESS: 2. Cloud thermodynamic phase. <i>Journal of Geophysical Research</i> , 2000, 105, 11781-11792.	3.3	157
21	Remote Sensing of Liquid Water and Ice Cloud Optical Thickness and Effective Radius in the Arctic: Application of Airborne Multispectral MAS Data. <i>Journal of Atmospheric and Oceanic Technology</i> , 2004, 21, 857-875.	0.5	157
22	Accurate simulation of the optical properties of atmospheric ice crystals with the invariant imbedding T-matrix method. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 138, 17-35.	1.1	155
23	Efficient implementation of the invariant imbedding T-matrix method and the separation of variables method applied to large nonspherical inhomogeneous particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 116, 169-183.	1.1	146
24	On the radiative properties of ice clouds: Light scattering, remote sensing, and radiation parameterization. <i>Advances in Atmospheric Sciences</i> , 2015, 32, 32-63.	1.9	141
25	Impact of radiatively interactive dust aerosols in the NASA GEOS climate model: Sensitivity to dust particle shape and refractive index. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 753-786.	1.2	138
26	Light scattering by hexagonal ice crystals: comparison of finite-difference time domain and geometric optics models. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1995, 12, 162.	0.8	133
27	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.	1.1	132
28	Single-scattering properties of tri-axial ellipsoidal mineral dust aerosols: A database for application to radiative transfer calculations. <i>Journal of Aerosol Science</i> , 2010, 41, 501-512.	1.8	130
29	Efficient finite-difference time-domain scheme for light scattering by dielectric particles: application to aerosols. <i>Applied Optics</i> , 2000, 39, 3727.	2.1	128
30	Variation of the radiative properties during black carbon aging: theoretical and experimental intercomparison. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11967-11980.	1.9	127
31	Ice cloud single-scattering property models with the full phase matrix at wavelengths from 0.2 to 100 μm . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 146, 123-139.	1.1	126
32	Parameterization of shortwave ice cloud optical properties for various particle habits. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 7-1.	3.3	120
33	An algorithm using visible and 1.38- μm channels to retrieve cirrus cloud reflectances from aircraft and satellite data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2002, 40, 1659-1668.	2.7	120
34	Single-scattering properties of droxtals. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2003, 79-80, 1159-1169.	1.1	115
35	Light scattering by hexagonal ice crystals: solutions by a ray-by-ray integration algorithm. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1997, 14, 2278.	0.8	114
36	The Distribution of Tropical Thin Cirrus Clouds Inferred from TerraMODIS Data. <i>Journal of Climate</i> , 2003, 16, 1241-1247.	1.2	112

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37	Remote sensing of cloud properties using MODIS airborne simulator imagery during SUCCESS: 1. Data and models. <i>Journal of Geophysical Research</i> , 2000, 105, 11767-11780.	3.3	106
38	Global Land Surface Emissivity Retrieved From Satellite Ultraspectral IR Measurements. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 1277-1290.	2.7	106
39	First-principles modeling of electromagnetic scattering by discrete and discretely heterogeneous random media. <i>Physics Reports</i> , 2016, 632, 1-75.	10.3	104
40	Simulations of light scattering from a biconcave red blood cell using the finite-difference time-domain method. <i>Journal of Biomedical Optics</i> , 2005, 10, 024022.	1.4	97
41	Light absorption and scattering by aggregates: Application to black carbon and snow grains. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 1581-1594.	1.1	97
42	A New Parameterization of Single Scattering Solar Radiative Properties for Tropical Anvils Using Observed Ice Crystal Size and Shape Distributions. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 2458-2478.	0.6	96
43	Impact of Aviation on Climate: FAA's Aviation Climate Change Research Initiative (ACCRI) Phase II. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 561-583.	1.7	93
44	Snow optical properties for different particle shapes with application to snow grain size retrieval and MODIS/CERES radiance comparison over Antarctica. <i>Remote Sensing of Environment</i> , 2008, 112, 3563-3581.	4.6	92
45	Single-scattering properties of triaxial ellipsoidal particles for a size parameter range from the Rayleigh to geometric-optics regimes. <i>Applied Optics</i> , 2009, 48, 114.	2.1	91
46	Identification of cloud phase from PICASSO-CENA lidar depolarization: a multiple scattering sensitivity study. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2001, 70, 569-579.	1.1	90
47	Modeling optical properties of mineral aerosol particles by using nonsymmetric hexahedra. <i>Applied Optics</i> , 2010, 49, 334.	2.1	90
48	Sea surface wind speed estimation from space-based lidar measurements. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3593-3601.	1.9	89
49	Validation of the community radiative transfer model. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 1050-1064.	1.1	87
50	Evaluation of Cirrus Cloud Properties Derived from MODIS Data Using Cloud Properties Derived from Ground-Based Observations Collected at the ARM SGP Site. <i>Journal of Applied Meteorology and Climatology</i> , 2005, 44, 221-240.	1.7	83
51	Radiative properties of cirrus clouds in the infrared (8-14 μm) spectral region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2001, 70, 473-504.	1.1	79
52	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. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 1948-1957.	2.7	77
53	Cloud Phase Determination Using Ground-Based AERI Observations at SHEBA. <i>Journal of Applied Meteorology and Climatology</i> , 2003, 42, 701-715.	1.7	77
54	Inherent and apparent scattering properties of coated or uncoated spheres embedded in an absorbing host medium. <i>Applied Optics</i> , 2002, 41, 2740.	2.1	76

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55	Retrieval of semitransparent ice cloud optical thickness from atmospheric infrared sounder (AIRS) measurements. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2004, 42, 2254-2267.	2.7	76
56	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> , 2004, 42, 2594-2599.	2.7	76
57	Application of the pseudo-spectral time domain method to compute particle single-scattering properties for size parameters up to 200. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 1728-1740.	1.1	76
58	Inference of ice cloud properties from high spectral resolution infrared observations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2004, 42, 842-853.	2.7	75
59	Influence of ice particle model on satellite ice cloud retrieval: lessons learned from MODIS and POLDER cloud product comparison. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 7115-7129.	1.9	75
60	Multilayer Cloud Detection with the MODIS Near-Infrared Water Vapor Absorption Band. <i>Journal of Applied Meteorology and Climatology</i> , 2010, 49, 2315-2333.	0.6	75
61	CERES MODIS Cloud Product Retrievals for Edition 4â€”Part I: Algorithm Changes. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 2744-2780.	2.7	75
62	Stochastic parameterization for light absorption by internally mixed BC/dust in snow grains for application to climate models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 7616-7632.	1.2	74
63	Resolving ice cloud optical thickness biases between CALIOP and MODIS using infrared retrievals. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5075-5090.	1.9	73
64	Influence of Ice Particle Surface Roughening on the Global Cloud Radiative Effect. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 2794-2807.	0.6	72
65	Retrieval of Cloud Microphysical Properties from MODIS and AIRS. <i>Journal of Applied Meteorology and Climatology</i> , 2005, 44, 1526-1543.	1.7	71
66	Distribution and Radiative Forcing of Tropical Thin Cirrus Clouds. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 3721-3731.	0.6	71
67	Average ice crystal size and bulk short-wave single-scattering properties of cirrus clouds. <i>Atmospheric Research</i> , 1998, 49, 315-335.	1.8	69
68	Geometrical-optics solution to light scattering by droxtal ice crystals. <i>Applied Optics</i> , 2004, 43, 2490.	2.1	69
69	Uncertainties Associated With the Surface Texture of Ice Particles in Satellite-Based Retrieval of Cirrus Cloudsâ€”Part I: Single-Scattering Properties of Ice Crystals With Surface Roughness. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 1940-1947.	2.7	68
70	Effect of ice crystal shape and effective size on snow bidirectional reflectance. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 100, 457-469.	1.1	67
71	Impact of Snow Grain Shape and Black Carbonâ€”Snow Internal Mixing on Snow Optical Properties: Parameterizations for Climate Models. <i>Journal of Climate</i> , 2017, 30, 10019-10036.	1.2	66
72	Effects of surface roughness on light scattering by small particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004, 89, 123-131.	1.1	65

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73	Remote sensing of ice crystal asymmetry parameter using multi-directional polarization measurements – Part 1: Methodology and evaluation with simulated measurements. Atmospheric Measurement Techniques, 2012, 5, 2361-2374.	1.2	65
74	Modeling of Scattering and Absorption by Nonspherical Cirrus Ice Particles at Thermal Infrared Wavelengths. Journals of the Atmospheric Sciences, 1999, 56, 2937-2947.	0.6	63
75	Depolarization ratio and attenuated backscatter for nine cloud types: analyses based on collocated CALIPSO lidar and MODIS measurements. Optics Express, 2008, 16, 3931.	1.7	63
76	Physical and optical properties of persistent contrails: Climatology and interpretation. Journal of Geophysical Research, 2012, 117, .	3.3	61
77	Sensitivity of cirrus bidirectional reflectance to vertical inhomogeneity of ice crystal habits and size distributions for two Moderate-Resolution Imaging Spectroradiometer (MODIS) bands. Journal of Geophysical Research, 2001, 106, 17267-17291.	3.3	60
78	Impact of cirrus crystal shape on solar spectral irradiance: A case study for subtropical cirrus. Journal of Geophysical Research, 2005, 110, .	3.3	60
79	Bulk Scattering Properties for the Remote Sensing of Ice Clouds. Part III: High-Resolution Spectral Models from 100 to 3250 cm^{-1} . Journal of Applied Meteorology and Climatology, 2007, 46, 423-434.	0.6	59
80	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.	2.7	59
81	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.	0.6	58
82	Effects of ice crystal habit on thermal infrared radiative properties and forcing of cirrus. Journal of Geophysical Research, 2007, 112, .	3.3	57
83	The effects of surface roughness on the scattering properties of hexagonal columns with sizes from the Rayleigh to the geometric optics regimes. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 129, 169-185.	1.1	57
84	Impact of Grain Shape and Multiple Black Carbon Internal Mixing on Snow Albedo: Parameterization and Radiative Effect Analysis. Journal of Geophysical Research D: Atmospheres, 2018, 123, 1253-1268.	1.2	57
85	Invisibility cloaks for irregular particles using coordinate transformations. Optics Express, 2008, 16, 6134.	1.7	55
86	Sensitivity of the backscattering Mueller matrix to particle shape and thermodynamic phase. Applied Optics, 2003, 42, 4389.	2.1	54
87	Maintenance of Lower Tropospheric Temperature Inversion in the Saharan Air Layer by Dust and Dry Anomaly. Journal of Climate, 2009, 22, 5149-5162.	1.2	54
88	A numerical combination of extended boundary condition method and invariant imbedding method applied to light scattering by large spheroids and cylinders. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 123, 17-22.	1.1	54
89	Ice particle habit and surface roughness derived from PARASOL polarization measurements. Atmospheric Chemistry and Physics, 2014, 14, 3739-3750.	1.9	54
90	Electric and magnetic energy density distributions inside and outside dielectric particles illuminated by a plane electromagnetic wave. Optics Express, 2005, 13, 4554.	1.7	53

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91	Measurements of water vapor and high clouds over the Tibetan plateau with the terra modis instrument. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 895-900.	2.7	52
92	Comparison of PARASOL Observations with Polarized Reflectances Simulated Using Different Ice Habit Mixtures. Journal of Applied Meteorology and Climatology, 2013, 52, 186-196.	0.6	52
93	Physical-geometric optics method for large size faceted particles. Optics Express, 2017, 25, 24044.	1.7	52
94	Improvement of aerosol optical depth retrieval from MODIS spectral reflectance over the global ocean using new aerosol models archived from AERONET inversion data and tri-axial ellipsoidal dust database. Atmospheric Chemistry and Physics, 2012, 12, 7087-7102.	1.9	51
95	An Analysis of the Short-Term Cloud Feedback Using MODIS Data. Journal of Climate, 2013, 26, 4803-4815.	1.2	51
96	Impulse response solution to the three-dimensional vector radiative transfer equation in atmosphere-ocean systems I Monte Carlo method. Applied Optics, 2008, 47, 1037.	2.1	50
97	Extinction efficiency and single-scattering albedo for laboratory and natural cirrus clouds. Journal of Geophysical Research, 1997, 102, 21825-21835.	3.3	49
98	Calculation of the single-scattering properties of randomly oriented hexagonal ice columns: a comparison of the T-matrix and the finite-difference time-domain methods. Applied Optics, 2001, 40, 4376.	2.1	49
99	Effects of ice particle size vertical inhomogeneity on the passive remote sensing of ice clouds. Journal of Geophysical Research, 2010, 115, .	3.3	49
100	The impact of ice particle roughness on the scattering phase matrix. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 2534-2549.	1.1	49
101	Radiative transfer simulation of dust-like aerosols: Uncertainties from particle shape and refractive index. Journal of Aerosol Science, 2011, 42, 631-644.	1.8	49
102	Comparison between the pseudo-spectral time domain method and the discrete dipole approximation for light scattering simulations. Optics Express, 2012, 20, 16763.	1.7	49
103	A two-habit model for the microphysical and optical properties of ice clouds. Atmospheric Chemistry and Physics, 2014, 14, 13719-13737.	1.9	49
104	Numerical accuracy of "equivalent" spherical approximations for computing ensemble-averaged scattering properties of fractal soot aggregates. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 2127-2132.	1.1	48
105	Study of the Impact of Summer Monsoon Circulation on Spatial Distribution of Aerosols in East Asia Based on Numerical Simulations. Journal of Applied Meteorology and Climatology, 2011, 50, 2270-2282.	0.6	48
106	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.	0.6	48
107	Cirrus feedback on interannual climate fluctuations. Geophysical Research Letters, 2014, 41, 9166-9173.	1.5	47
108	Spectral signature of ice clouds in the far-infrared region: Single-scattering calculations and radiative sensitivity study. Journal of Geophysical Research, 2003, 108, .	3.3	46

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109	The Influence of Water Coating on the Optical Scattering Properties of Fractal Soot Aggregates. <i>Aerosol Science and Technology</i> , 2012, 46, 31-43.	1.5	46
110	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, .	3.3	45
111	Simulated variations of eolian dust from inner Asian deserts at the mid-Pliocene, last glacial maximum, and present day: contributions from the regional tectonic uplift and global climate change. <i>Climate Dynamics</i> , 2011, 37, 2289-2301.	1.7	45
112	Backscattering peak of ice cloud particles. <i>Optics Express</i> , 2015, 23, 11995.	1.7	45
113	Cloud Property Retrieval from Multiband Infrared Measurements by Himawari-8. <i>Journal of the Meteorological Society of Japan</i> , 2018, 96B, 27-42.	0.7	45
114	Cloudy sounding and cloud-top height retrieval from AIRS alone single field-of-view radiance measurements. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	44
115	Far-field Lorenzâ€™Mie scattering in an absorbing host medium: Theoretical formalism and FORTRAN program. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 205, 241-252.	1.1	44
116	Evaluation of a parallel FDTD code and application to modeling of light scattering by deformed red blood cells. <i>Optics Express</i> , 2005, 13, 5279.	1.7	43
117	Influence of Indian Summer Monsoon on Aerosol Loading in East Asia. <i>Journal of Applied Meteorology and Climatology</i> , 2011, 50, 523-533.	0.6	43
118	Optical thickness of tropical cirrus clouds derived from the MODIS 0.66 and 1.375- μm channels. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2004, 42, 833-841.	2.7	42
119	The Vertical Profile of Liquid and Ice Water Content in Midlatitude Mixed-Phase Altocumulus Clouds. <i>Journal of Applied Meteorology and Climatology</i> , 2008, 47, 2487-2495.	0.6	42
120	Assessment of the Quality of MODIS Cloud Products from Radiance Simulations. <i>Journal of Applied Meteorology and Climatology</i> , 2009, 48, 1591-1612.	0.6	42
121	Retrieval of Cloud Properties Using CALIPSO Imaging Infrared Radiometer. Part II: Effective Diameter and Ice Water Path. <i>Journal of Applied Meteorology and Climatology</i> , 2013, 52, 2582-2599.	0.6	42
122	Inhomogeneity structure and the applicability of effective medium approximations in calculating light scattering by inhomogeneous particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 146, 331-348.	1.1	42
123	Scattering database in the millimeter and submillimeter wave range of 100â€“1000 GHz for nonspherical ice particles. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	41
124	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.	0.6	41
125	A Resampling-Based Stochastic Approximation Method for Analysis of Large Geostatistical Data. <i>Journal of the American Statistical Association</i> , 2013, 108, 325-339.	1.8	41
126	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> , 2008, 47, 2311-2330.	0.6	40

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127	Parameterization of Shortwave and Longwave Radiative Properties of Ice Clouds for Use in Climate Models. <i>Journal of Climate</i> , 2009, 22, 6287-6312.	1.2	40
128	Modeling of light scattering by biconcave and deformed red blood cells with the invariant imbedding T-matrix method. <i>Journal of Biomedical Optics</i> , 2013, 18, 055001.	1.4	40
129	Intercomparison of the GOS approach, superposition T-matrix method, and laboratory measurements for black carbon optical properties during aging. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 184, 287-296.	1.1	40
130	Polarization and effective Mueller matrix for multiple scattering of light by nonspherical ice crystals. <i>Optics Express</i> , 2006, 14, 6381.	1.7	39
131	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, .	3.3	39
132	Temperature dependence of ice optical constants: Implications for simulating the single-scattering properties of cold ice clouds. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 2520-2525.	1.1	39
133	Effect of mineral dust aerosol aspect ratio on polarized reflectance. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 151, 97-109.	1.1	39
134	Sensitivity of depolarized lidar signals to cloud and aerosol particle properties. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 100, 470-482.	1.1	38
135	Contrails and Induced Cirrus. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 473-478.	1.7	38
136	Retrieval of ice cloud properties using an optimal estimation algorithm and MODIS infrared observations: 1. Forward model, error analysis, and information content. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 5809-5826.	1.2	38
137	A Review of Ice Cloud Optical Property Models for Passive Satellite Remote Sensing. <i>Atmosphere</i> , 2018, 9, 499.	1.0	38
138	Possibility of the Visible-Channel Calibration Using Deep Convective Clouds Overshooting the TTL. <i>Journal of Applied Meteorology and Climatology</i> , 2009, 48, 2271-2283.	0.6	37
139	Coupling of the microphysical and optical properties of an Arctic nimbostratus cloud during the ASTAR 2004 experiment: Implications for light scattering modeling. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	37
140	Role of stabilized Criegee Intermediates in the formation of Atmospheric sulfate in eastern United States. <i>Atmospheric Environment</i> , 2013, 79, 442-447.	1.9	37
141	On the radiative properties of contrail cirrus. <i>Geophysical Research Letters</i> , 1998, 25, 1161-1164.	1.5	36
142	Sensitivity of Thermal Infrared Radiation at the Top of the Atmosphere and the Surface to Ice Cloud Microphysics. <i>Journal of Applied Meteorology and Climatology</i> , 2008, 47, 2545-2560.	0.6	36
143	Simulation of the optical properties of plate aggregates for application to the remote sensing of cirrus clouds. <i>Applied Optics</i> , 2011, 50, 1065.	2.1	36
144	Net radiative effects of dust in the tropical North Atlantic based on integrated satellite observations and in situ measurements. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11303-11322.	1.9	36

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145	Impact of Ice Cloud Microphysics on Satellite Cloud Retrievals and Broadband Flux Radiative Transfer Model Calculations. <i>Journal of Climate</i> , 2018, 31, 1851-1864.	1.2	36
146	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> , 2002, 41, 197-217.	1.7	34
147	Nighttime Multilayered Cloud Detection Using MODIS and ARM Data. <i>Journal of Applied Meteorology and Climatology</i> , 2003, 42, 905-919.	1.7	34
148	Understanding ice supersaturation, particle growth, and number concentration in cirrus clouds. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	34
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