Andrew Heymsfield

List of Publications by Year
in descending order

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300 papers	22,512 citations	6254 80 h-index	13379 130 g-index
331 all docs	331 docs citations	331 times ranked	8249 citing authors

#	Article	IF	Citations
1	Indian Ocean Experiment: An integrated analysis of the climate forcing and effects of the great Indo-Asian haze. Journal of Geophysical Research, 2001, 106, 28371-28398.	3.3	1,199
2	Reduction of Tropical Cloudiness by Soot. Science, 2000, 288, 1042-1047.	12.6	1,125
3	A Parameterization of the Particle Size Spectrum of Ice Clouds in Terms of the Ambient Temperature and the Ice Water Content. Journals of the Atmospheric Sciences, 1984, 41, 846-855.	1.7	417
4	In situ detection of biological particles in cloud ice-crystals. Nature Geoscience, 2009, 2, 398-401.	12.9	406
5	Production of Ice in Tropospheric Clouds: A Review. Bulletin of the American Meteorological Society, 2005, 86, 795-808.	3.3	361
6	Efficiency of the deposition mode ice nucleation on mineral dust particles. Atmospheric Chemistry and Physics, 2006, 6, 3007-3021.	4.9	328
7	Shattering and Particle Interarrival Times Measured by Optical Array Probes in Ice Clouds. Journal of Atmospheric and Oceanic Technology, 2006, 23, 1357-1371.	1.3	310
8	The Mixed-Phase Arctic Cloud Experiment. Bulletin of the American Meteorological Society, 2007, 88, 205-222.	3.3	283
9	Observations and Parameterizations of Particle Size Distributions in Deep Tropical Cirrus and Stratiform Precipitating Clouds: Results from In Situ Observations in TRMM Field Campaigns. Journals of the Atmospheric Sciences, 2002, 59, 3457-3491.	1.7	277
10	Retrieval of ice cloud microphysical parameters using the CloudSat millimeterâ€wave radar and temperature. Journal of Geophysical Research, 2009, 114, .	3.3	268
11	Microphysical Characteristics of Three Anvils Sampled during the Central Equatorial Pacific Experiment. Journals of the Atmospheric Sciences, 1996, 53, 2401-2423.	1.7	250
12	Thin and Subvisual Tropopause Tropical Cirrus: Observations and Radiative Impacts. Journals of the Atmospheric Sciences, 2000, 57, 1841-1853.	1.7	227
13	Bulk Scattering Properties for the Remote Sensing of Ice Clouds. Part I: Microphysical Data and Models. Journal of Applied Meteorology and Climatology, 2005, 44, 1885-1895.	1.7	220
14	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
15	Parameterization of Tropical Cirrus Ice Crystal Size Distributions and Implications for Radiative Transfer: Results from CEPEX. Journals of the Atmospheric Sciences, 1997, 54, 2187-2200.	1.7	214
16	Precipitation Development in Stratiform Ice Clouds: A Microphysical and Dynamical Study. Journals of the Atmospheric Sciences, 1977, 34, 367-381.	1.7	213
17	Cirrus Crystal Nucleation by Homogeneous Freezing of Solution Droplets. Journals of the Atmospheric Sciences, 1989, 46, 2252-2264.	1.7	213
18	Ice Crystal Terminal Velocities. Journals of the Atmospheric Sciences, 1972, 29, 1348-1357.	1.7	206

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19	Cirrus Crystal Terminal Velocities. Journals of the Atmospheric Sciences, 2000, 57, 916-938.	1.7	206
20	Ice properties of singleâ€layer stratocumulus during the Mixedâ€Phase Arctic Cloud Experiment: 1. Observations. Journal of Geophysical Research, 2007, 112, .	3.3	204
21	Refinements in the Treatment of Ice Particle Terminal Velocities, Highlighting Aggregates. Journals of the Atmospheric Sciences, 2005, 62, 1637-1644.	1.7	196
22	Homogeneous Ice Nucleation and Supercooled Liquid Water in Orographic Wave Clouds. Journals of the Atmospheric Sciences, 1993, 50, 2335-2353.	1.7	189
23	Relative Humidity and Temperature Influences on Cirrus Formation and Evolution: Observations from Wave Clouds and FIRE II. Journals of the Atmospheric Sciences, 1995, 52, 4302-4326.	1.7	184
24	Advances in the Estimation of Ice Particle Fall Speeds Using Laboratory and Field Measurements. Journals of the Atmospheric Sciences, 2010, 67, 2469-2482.	1.7	183
25	Water Isotope Ratios D/H, 18O/16O, 17O/16O in and out of Clouds Map Dehydration Pathways. Science, 2003, 302, 1742-1745.	12.6	182
26	A General Approach for Deriving the Properties of Cirrus and Stratiform Ice Cloud Particles. Journals of the Atmospheric Sciences, 2002, 59, 3-29.	1.7	178
27	Some ice nucleation characteristics of Asian and Saharan desert dust. Atmospheric Chemistry and Physics, 2006, 6, 2991-3006.	4.9	177
28	Improvements in Shortwave Bulk Scattering and Absorption Models for the Remote Sensing of Ice Clouds. Journal of Applied Meteorology and Climatology, 2011, 50, 1037-1056.	1.5	175
29	Saharan dust particles nucleate droplets in eastern Atlantic clouds. Geophysical Research Letters, 2009, 36, .	4.0	174
30	Characterization and Correction of Relative Humidity Measurements from Vaisala RS80-A Radiosondes at Cold Temperatures. Journal of Atmospheric and Oceanic Technology, 2001, 18, 135-156.	1.3	173
31	A Scheme for Parameterizing Ice-Cloud Water Content in General Circulation Models. Journals of the Atmospheric Sciences, 1990, 47, 1865-1877.	1.7	171
32	Effective Ice Particle Densities Derived from Aircraft Data. Journals of the Atmospheric Sciences, 2004, 61, 982-1003.	1.7	171
33	Ice Cloud Particle Size Distributions and Pressure-Dependent Terminal Velocities from In Situ Observations at Temperatures from 0Â° to â^'86Â°C. Journals of the Atmospheric Sciences, 2013, 70, 4123-4154.	1.7	171
34	Ice properties of singleâ€layer stratocumulus during the Mixedâ€Phase Arctic Cloud Experiment: 2. Model results. Journal of Geophysical Research, 2007, 112, .	3.3	165
35	Snow Size Distribution Parameterization for Midlatitude and Tropical Ice Clouds. Journals of the Atmospheric Sciences, 2007, 64, 4346-4365.	1.7	162
36	Melting and Shedding of Graupel and Hail. Part I: Model Physics. Journals of the Atmospheric Sciences, 1987, 44, 2754-2763.	1.7	158

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37	Characteristics of Deep Tropical and Subtropical Convection from Nadir-Viewing High-Altitude Airborne Doppler Radar. Journals of the Atmospheric Sciences, 2010, 67, 285-308.	1.7	157
38	High Albedos of Cirrus in the Tropical Pacific Warm Pool: Microphysical Interpretations from CEPEX and from Kwajalein, Marshall Islands. Journals of the Atmospheric Sciences, 1996, 53, 2424-2451.	1.7	155
39	Flight-based chemical characterization of biomass burning aerosols within two prescribed burn smoke plumes. Atmospheric Chemistry and Physics, 2011, 11, 12549-12565.	4.9	154
40	An Improved Approach to Calculating Terminal Velocities of Plate-like Crystals and Graupel. Journals of the Atmospheric Sciences, 1987, 44, 1088-1099.	1.7	151
41	On the importance of small ice crystals in tropical anvil cirrus. Atmospheric Chemistry and Physics, 2009, 9, 5519-5537.	4.9	151
42	Stratosphere-troposphere exchange in a midlatitude mesoscale convective complex: 1. Observations. Journal of Geophysical Research, 1996, 101, 6823-6836.	3.3	146
43	The Pre-Depression Investigation of Cloud-Systems in the Tropics (PREDICT) Experiment: Scientific Basis, New Analysis Tools, and Some First Results. Bulletin of the American Meteorological Society, 2012, 93, 153-172.	3.3	139
44	Ice Particles Observed in a Cirriform Cloud at â˜'83Â°C and Implications for Polar Stratospheric Clouds. Journals of the Atmospheric Sciences, 1986, 43, 851-855.	1.7	137
45	Cirrus Uncinus Generating Cells and the Evolution of Cirriform Clouds. Part I: Aircraft Observations of the Growth of the Ice Phase. Journals of the Atmospheric Sciences, 1975, 32, 799-808.	1.7	136
46	A Computational Technique for Increasing the Effective Sampling Volume of the PMS Two-Dimensional Particle Size Spectrometer. Journal of Applied Meteorology, 1978, 17, 1566-1572.	1.1	133
47	Improved Representation of Ice Particle Masses Based on Observations in Natural Clouds. Journals of the Atmospheric Sciences, 2010, 67, 3303-3318.	1.7	128
48	Ice cloud single-scattering property models with the full phase matrix at wavelengths from 0.2 to 100Âµm. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 146, 123-139.	2.3	126
49	Radar Scattering from Ice Aggregates Using the Horizontally Aligned Oblate Spheroid Approximation. Journal of Applied Meteorology and Climatology, 2012, 51, 655-671.	1.5	124
50	The Definition and Significance of an Effective Radius for Ice Clouds. Journals of the Atmospheric Sciences, 1998, 55, 2039-2052.	1.7	123
51	Importance of snow to global precipitation. Geophysical Research Letters, 2015, 42, 9512-9520.	4.0	123
52	The Saharan Air Layer and the Fate of African Easterly Wavesâ€"NASA's AMMA Field Study of Tropical Cyclogenesis. Bulletin of the American Meteorological Society, 2009, 90, 1137-1156.	3.3	119
53	Observations of Moist Adiabatic Ascent in Northeast Colorado Cumulus Congestus Clouds. Journals of the Atmospheric Sciences, 1978, 35, 1689-1703.	1.7	118
54	Parameterizations for the Cross-Sectional Area and Extinction of Cirrus and Stratiform Ice Cloud Particles. Journals of the Atmospheric Sciences, 2003, 60, 936-956.	1.7	116

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55	Single-scattering properties of droxtals. Journal of Quantitative Spectroscopy and Radiative Transfer, 2003, 79-80, 1159-1169.	2.3	115
56	Microphysical modeling of cirrus: 1. Comparison with 1986 FIRE IFO measurements. Journal of Geophysical Research, 1994, 99, 10421.	3.3	113
57	Evidence for the Predominance of Mid-Tropospheric Aerosols as Subtropical Anvil Cloud Nuclei. Science, 2004, 304, 718-722.	12.6	112
58	Ice supersaturations exceeding 100% at the cold tropical tropopause: implications for cirrus formation and dehydration. Atmospheric Chemistry and Physics, 2005, 5, 851-862.	4.9	112
59	On measurements of small ice particles in clouds. Geophysical Research Letters, 2007, 34, .	4.0	111
60	Evidence That Nitric Acid Increases Relative Humidity in Low-Temperature Cirrus Clouds. Science, 2004, 303, 516-520.	12.6	110
61	Assessment of Cloudsat Reflectivity Measurements and Ice Cloud Properties Using Ground-Based and Airborne Cloud Radar Observations. Journal of Atmospheric and Oceanic Technology, 2009, 26, 1717-1741.	1.3	110
62	Structure of the Melting Layer in Mesoscale Convective System Stratiform Precipitation. Journals of the Atmospheric Sciences, 1989, 46, 2008-2025.	1.7	109
63	Parameterizations of Condensational Growth of Droplets for Use in General Circulation Models. Journals of the Atmospheric Sciences, 1992, 49, 2325-2342.	1.7	107
64	Upper-tropospheric relative humidity observations and implications for cirrus ice nucleation. Geophysical Research Letters, 1998, 25, 1343-1346.	4.0	103
65	Modeling of Submillimeter Passive Remote Sensing of Cirrus Clouds. Journal of Applied Meteorology and Climatology, 1998, 37, 184-205.	1.7	103
66	Homogeneous Ice Nucleation in Subtropical and Tropical Convection and Its Influence on Cirrus Anvil Microphysics. Journals of the Atmospheric Sciences, 2005, 62, 41-64.	1.7	103
67	The Dimensional Characteristics of Ice Crystal Aggregates from Fractal Geometry. Journals of the Atmospheric Sciences, 2010, 67, 1605-1616.	1.7	103
68	A concept for a satellite mission to measure cloud ice water path, ice particle size, and cloud altitude. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 109-128.	2.7	100
69	Evidence for ice particles in the tropical stratosphere from in-situ measurements. Atmospheric Chemistry and Physics, 2009, 9, 6775-6792.	4.9	100
70	Microphysics of INDOEX clean and polluted trade cumulus clouds. Journal of Geophysical Research, 2001, 106, 28653-28673.	3.3	99
71	Comparisons of global cloud ice from MLS, CloudSat, and correlative data sets. Journal of Geophysical Research, 2009, 114, .	3.3	99
72	Microphysical Observations of Tropical Clouds. Journal of Applied Meteorology and Climatology, 2002, 41, 97-117.	1.7	98

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73	NASA's Genesis and Rapid Intensification Processes (GRIP) Field Experiment. Bulletin of the American Meteorological Society, 2013, 94, 345-363.	3.3	96
74	Cirrus Clouds. Meteorological Monographs, 2017, 58, 2.1-2.26.	5.0	94
75	The 27â€“28 October 1986 FIRE IFO Cirrus Case Study: Cloud Microstructure. Monthly Weather Review, 1990, 118, 2313-2328.	1.4	93
76	Radar and Radiation Properties of Ice Clouds. Journal of Applied Meteorology and Climatology, 1995, 34, 2329-2345.	1.7	93
77	Testing IWC Retrieval Methods Using Radar and Ancillary Measurements with In Situ Data. Journal of Applied Meteorology and Climatology, 2008, 47, 135-163.	1.5	91
78	Modeling Cirrus Clouds. Part I: Treatment of Bimodal Size Spectra and Case Study Analysis. Journals of the Atmospheric Sciences, 1996, 53, 2952-2966.	1.7	89
79	The role of heterogeneous freezing nucleation in upper tropospheric clouds: Inferences from SUCCESS. Geophysical Research Letters, 1998, 25, 1387-1390.	4.0	89
80	Microphysics of Maritime Tropical Convective Updrafts at Temperatures from â˜'20Â° to â˜'60Â°. Journals of the Atmospheric Sciences, 2009, 66, 3530-3562.	1.7	88
81	Estimating snow microphysical properties using collocated multisensor observations. Journal of Geophysical Research D: Atmospheres, 2014, 119, 8941-8961.	3.3	87
82	Aggregation and Scaling of Ice Crystal Size Distributions. Journals of the Atmospheric Sciences, 2003, 60, 544-560.	1.7	87
83	Statistical properties of the normalized ice particle size distribution. Journal of Geophysical Research, 2005, 110, .	3.3	85
84	Dual-frequency radar ratio of nonspherical atmospheric hydrometeors. Geophysical Research Letters, 2005, 32, .	4.0	85
85	Cloud Particle Measurements in Thunderstorm Anvils and Possible Weather Threat to Aviation. Journal of Aircraft, 1998, 35, 113-121.	2.4	84
86	The Microwave Radiative Properties of Falling Snow Derived from Nonspherical Ice Particle Models. Part I: An Extensive Database of Simulated Pristine Crystals and Aggregate Particles, and Their Scattering Properties. Journal of Applied Meteorology and Climatology, 2016, 55, 691-708.	1.5	84
87	Aggregation of Ice Crystals in Cirrus. Journals of the Atmospheric Sciences, 1989, 46, 3108-3121.	1.7	82
88	A Balloon-Borne Continuous Cloud Particle Replicator for Measuring Vertical Profiles of Cloud Microphysical Properties: Instrument Design, Performance, and Collection Efficiency Analysis. Journal of Atmospheric and Oceanic Technology, 1997, 14, 753-768.	1.3	82
89	Submillimeter-Wave Cloud Ice Radiometer: Simulations of retrieval algorithm performance. Journal of Geophysical Research, 2002, 107, AAC 2-1.	3.3	82
90	Evolution of a Florida Cirrus Anvil. Journals of the Atmospheric Sciences, 2005, 62, 2352-2372.	1.7	82

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91	On retrieving the microphysical properties of cirrus clouds using the moments of the millimeter-wavelength Doppler spectrum. Journal of Geophysical Research, 2002, 107, AAC 22-1.	3.3	81
92	Properties of Tropical and Midlatitude Ice Cloud Particle Ensembles. Part II: Applications for Mesoscale and Climate Models. Journals of the Atmospheric Sciences, 2003, 60, 2592-2611.	1.7	79
93	Profiling Cloud Ice Mass and Particle Characteristic Size from Doppler Radar Measurements. Journal of Atmospheric and Oceanic Technology, 2002, 19, 1003-1018.	1.3	78
94	Properties of Cirrus Generating Cells. Journals of the Atmospheric Sciences, 1972, 29, 1358-1366.	1.7	77
95	Refinements to Ice Particle Mass Dimensional and Terminal Velocity Relationships for Ice Clouds. Part I: Temperature Dependence. Journals of the Atmospheric Sciences, 2007, 64, 1047-1067.	1.7	75
96	An Observational and Theoretical Study of Highly Supercooled Altocumulus. Journals of the Atmospheric Sciences, 1991, 48, 923-945.	1.7	74
97	Universality in snowflake aggregation. Geophysical Research Letters, 2004, 31, .	4.0	74
98	Ice Water Pathâ€“Optical Depth Relationships for Cirrus and Deep Stratiform Ice Cloud Layers. Journal of Applied Meteorology and Climatology, 2003, 42, 1369-1390.	1.7	73
99	Theory of growth by differential sedimentation, with application to snowflake formation. Physical Review E, 2004, 70, 021403.	2.1	73
100	Cloud Conditions Favoring Secondary Ice Particle Production in Tropical Maritime Convection. Journals of the Atmospheric Sciences, 2014, 71, 4500-4526.	1.7	73
101	Influence of Ice Particle Surface Roughening on the Global Cloud Radiative Effect. Journals of the Atmospheric Sciences, 2013, 70, 2794-2807.	1.7	72
102	Geometrical-optics solution to light scattering by droxtal ice crystals. Applied Optics, 2004, 43, 2490.	2.1	69
103	Evaluation of Ice Water Content Retrievals from Cloud Radar Reflectivity and Temperature Using a Large Airborne In Situ Microphysical Database. Journal of Applied Meteorology and Climatology, 2007, 46, 557-572.	1.5	69
104	A Comparative Study of the Rates of Development of Potential Graupel and Hail Embryos in High Plains Storms. Journals of the Atmospheric Sciences, 1982, 39, 2867-2897.	1.7	68
105	Properties of Tropical and Midlatitude Ice Cloud Particle Ensembles. Part I: Median Mass Diameters and Terminal Velocities. Journals of the Atmospheric Sciences, 2003, 60, 2573-2591.	1.7	68
106	Shapes, sizes and light scattering properties of ice crystals in cirrus and a persistent contrail during SUCCESS. Geophysical Research Letters, 1998, 25, 1331-1334.	4.0	67
107	Parameterizations of INDOEX microphysical measurements and calculations of cloud susceptibility: Applications for climate studies. Journal of Geophysical Research, 2001, 106, 28675-28698.	3.3	66
108	Environmental conditions required for contrail formation and persistence. Journal of Geophysical Research, 1998, 103, 3929-3936.	3.3	65

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109	Growth of ice crystals in a precipitating contrail. Geophysical Research Letters, 1998, 25, 1335-1338.	4.0	64
110	Extinction-ice water content-effective radius algorithms for CALIPSO. Geophysical Research Letters, 2005, 32, .	4.0	64
111	Cirrus optical properties observed with lidar, radiosonde, and satellite over the tropical Indian Ocean during the aerosolâ€polluted northeast and clean maritime southwest monsoon. Journal of Geophysical Research, 2007, 112, .	3.3	64
112	Ice Fog in Arctic During FRAMâ€“Ice Fog Project: Aviation and Nowcasting Applications. Bulletin of the American Meteorological Society, 2014, 95, 211-226.	3.3	64
113	Possible linkages between Saharan dust and tropical cyclone rain band invigoration in the eastern Atlantic during NAMMAâ€06. Geophysical Research Letters, 2008, 35, .	4.0	63
114	Contrail Microphysics. Bulletin of the American Meteorological Society, 2010, 91, 465-472.	3.3	62
115	Use of observed ice crystal sizes and shapes to calculate mean-scattering properties and multispectral radiances: CEPEX April 4, 1993, case study. Journal of Geophysical Research, 1999, 104, 31763-31779.	3.3	61
116	Ice in Clouds Experimentâ€“Layer Clouds. Part II: Testing Characteristics of Heterogeneous Ice Formation in Lee Wave Clouds. Journals of the Atmospheric Sciences, 2012, 69, 1066-1079.	1.7	61
117	Relationships between Ice Water Content and Volume Extinction Coefficient from In Situ Observations for Temperatures from 0Â° to â^'86Â°C: Implications for Spaceborne Lidar Retrievals. Journal of Applied Meteorology and Climatology, 2014, 53, 479-505.	1.5	61
118	Microphysical Characteristics of a Well-Developed Weak Echo Region in a High Plains Supercell Thunderstorm. Journal of Climate and Applied Meteorology, 1986, 25, 1037-1051.	1.0	60
119	The 27â€“28 October 1986 FIRF IFO Cirrus Case Study: Comparison of Radiative Transfer Theory with Observations by Satellite and Aircraft. Monthly Weather Review, 1990, 118, 2356-2376.	1.4	60
120	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
121	Microphysical Characteristics of Tropical Updrafts in Clean Conditions. Journal of Applied Meteorology and Climatology, 2004, 43, 779-794.	1.7	60
122	Impact of cirrus crystal shape on solar spectral irradiance: A case study for subtropical cirrus. Journal of Geophysical Research, 2005, 110, .	3.3	60
123	Vertical Structures of Anvil Clouds of Tropical Mesoscale Convective Systems Observed by CloudSat. Journals of the Atmospheric Sciences, 2011, 68, 1653-1674.	1.7	60
124	Bulk Scattering Properties for the Remote Sensing of Ice Clouds. Part III: High-Resolution Spectral Models from 100 to 3250 cmâ^'1. Journal of Applied Meteorology and Climatology, 2007, 46, 423-434.	1.5	59
125	Longwave radiative forcing of Indian Ocean tropospheric aerosol. Journal of Geophysical Research, 2002, 107, INX2 3-1.	3.3	58
126	Normalized particle size distribution for remote sensing application. Journal of Geophysical Research D: Atmospheres, 2014, 119, 4204-4227.	3.3	57

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127	Cloud chamber experiments on the origin of ice crystal complexity in cirrus clouds. Atmospheric Chemistry and Physics, 2016, 16, 5091-5110.	4.9	56
128	Processing of Ice Cloud In Situ Data Collected by Bulk Water, Scattering, and Imaging Probes: Fundamentals, Uncertainties, and Efforts toward Consistency. Meteorological Monographs, 2017, 58, 11.1-11.33.	5.0	56
129	Observation of playa salts as nuclei in orographic wave clouds. Journal of Geophysical Research, 2010, 115, .	3.3	55
130	Idealized Simulations of a Squall Line from the MC3E Field Campaign Applying Three Bin Microphysics Schemes: Dynamic and Thermodynamic Structure. Monthly Weather Review, 2017, 145, 4789-4812.	1.4	55
131	The Role of Spaceborne Millimeter-Wave Radar in the Global Monitoring of Ice Cloud. Journal of Applied Meteorology and Climatology, 1995, 34, 2346-2366.	1.7	54
132	The Characterization of Ice Cloud Properties from Doppler Radar Measurements. Journal of Applied Meteorology and Climatology, 2007, 46, 1682-1698.	1.5	54
133	Relationships of Biomass-Burning Aerosols to Ice in Orographic Wave Clouds. Journals of the Atmospheric Sciences, 2010, 67, 2437-2450.	1.7	54
134	Cirrus Uncinus Generating Cells and the Evolution of Cirriform Clouds. Part II: The Structure and Circulations of the Cirrus Uncinus Generating Head. Journals of the Atmospheric Sciences, 1975, 32, 809-819.	1.7	53
135	Cirrus Cloud Radiative and Microphysical Properties from Ground Observations and In Situ Measurements during FIRE 1991 and Their Application to Exhibit Problems in Cirrus Solar Radiative Transfer Modeling. Journals of the Atmospheric Sciences, 1997, 54, 2320-2344.	1.7	53
136	Melting and Shedding of Graupel and Hail. Part II: Sensitivity Study. Journals of the Atmospheric Sciences, 1987, 44, 2764-2782.	1.7	52
137	Summary of a Workshop on Processing 2-D Probe Data. Bulletin of the American Meteorological Society, 1985, 66, 437-440.	3.3	48
138	Improved Radar Ice Water Content Retrieval Algorithms Using Coincident Microphysical and Radar Measurements. Journal of Applied Meteorology and Climatology, 2005, 44, 1391-1412.	1.7	48
139	In Situ Chemical Characterization of Aged Biomass-Burning Aerosols Impacting Cold Wave Clouds. Journals of the Atmospheric Sciences, 2010, 67, 2451-2468.	1.7	48
140	Ice hydrometeor profile retrieval algorithm for high-frequency microwave radiometers: application to the CoSSIR instrument during TC4. Atmospheric Measurement Techniques, 2012, 5, 2277-2306.	3.1	48
141	On the Life Cycle of Individual Contrails and Contrail Cirrus. Meteorological Monographs, 2017, 58, 3.1-3.24.	5.0	48
142	Hail Growth Mechanisms in a Colorado Storm: Part II: Hail Formation Processes. Journals of the Atmospheric Sciences, 1980, 37, 1779-1807.	1.7	47
143	Increased melting level height impacts surface precipitation phase and intensity. Nature Climate Change, 2020, 10, 771-776.	18.8	47
144	Convective generation of cirrus near the tropopause. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	46

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145	The Microphysics of Stratiform Precipitation During OLYMPEX: Compatibility Between Tripleâ€Frequency Radar and Airborne In Situ Observations. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8764-8792.	3.3	46
146	Properties of individual contrails: a compilation of observations and some comparisons. Atmospheric Chemistry and Physics, 2017, 17, 403-438.	4.9	45
147	Ice Particle Evolution in the Anvil of a Severe Thunderstorm during CCOPE. Journals of the Atmospheric Sciences, 1986, 43, 2463-2478.	1.7	44
148	A Comprehensive Observational Study of Graupel and Hail Terminal Velocity, Mass Flux, and Kinetic Energy. Journals of the Atmospheric Sciences, 2018, 75, 3861-3885.	1.7	44
149	A Quantitative Assessment of the Accuracy of Techniques for Calculating Graupel Growth. Journals of the Atmospheric Sciences, 1985, 42, 2264-2274.	1.7	43
150	Cirrus Microphysics and Radiative Transfer: Cloud Field Study on 28 October 1986. Monthly Weather Review, 1992, 120, 661-684.	1.4	43
151	A Test of Ice Self-Collection Kernels Using Aircraft Data. Journals of the Atmospheric Sciences, 2006, 63, 651-666.	1.7	43
152	Exponential Size Distributions for Snow. Journals of the Atmospheric Sciences, 2008, 65, 4017-4031.	1.7	43
153	Numerical analysis using WRFâ€SBM for the cloud microphysical structures in the C3VP field campaign: Impacts of supercooled droplets and resultant riming on snow microphysics. Journal of Geophysical Research, 2012, 117, .	3.3	43
154	Observations of Ice Microphysics through the Melting Layer. Journals of the Atmospheric Sciences, 2015, 72, 2902-2928.	1.7	43
155	Case Study of a Halistorm in Colorado. Part IV: Graupel and Hail Growth Mechanisms Deduced through Particle Trajectory Calculations. Journals of the Atmospheric Sciences, 1983, 40, 1482-1509.	1.7	42
156	Effects of ice-crystal structure on halo formation: cirrus cloud experimental and ray-tracing modeling studies. Applied Optics, 1994, 33, 4590.	2.1	42
157	Effective Radius of Ice Cloud Particle Populations Derived from Aircraft Probes. Journal of Atmospheric and Oceanic Technology, 2006, 23, 361-380.	1.3	42
158	Mid-latitude and Tropical Cirrus: Microphysical Properties. , 2002, , .		42
159	Refinements to Ice Particle Mass Dimensional and Terminal Velocity Relationships for Ice Clouds. Part II: Evaluation and Parameterizations of Ensemble Ice Particle Sedimentation Velocities. Journals of the Atmospheric Sciences, 2007, 64, 1068-1088.	1.7	41
160	Scattering database in the millimeter and submillimeter wave range of 100â€“1000 GHz for nonspherical ice particles. Journal of Geophysical Research, 2009, 114, .	3.3	41
161	Terminal velocities and kinetic energies of natural hailstones. Geophysical Research Letters, 2014, 41, 8666-8672.	4.0	41
162	Parameterization of Shortwave and Longwave Radiative Properties of Ice Clouds for Use in Climate Models. Journal of Climate, 2009, 22, 6287-6312.	3.2	40

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163	The Size Distribution and Mass-Weighted Terminal Velocity of Low-Latitude Tropopause Cirrus Crystal Populations. Journals of the Atmospheric Sciences, 2009, 66, 2013-2028.	1.7	40
164	Formation and Spread of Aircraft-Induced Holes in Clouds. Science, 2011, 333, 77-81.	12.6	40
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