

# Andrew Ackerman

## List of Publications by Year in descending order

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120  
papers

9,976  
citations

46984

47  
h-index

39638

94  
g-index

149  
all docs

149  
docs citations

149  
times ranked

6345  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the climate forcing consequences of the albedo continuum between cloudy and clear air. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 59, 715.	0.8	116
2	The Earth Model Column Collaboratory (EMC&lt;sup&gt;2&lt;/sup&lt;/sup&gt;) v1.1: an open-source ground-based lidar and radar instrument simulator and subcolumn generator for large-scale models. <i>Geoscientific Model Development</i> , 2022, 15, 901-927.	1.3	4
3	Future Climate Change Under SSP Emission Scenarios With GISS&E2.1. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	22
4	Dilution of Boundary Layer Cloud Condensation Nucleus Concentrations by Free Tropospheric Entrainment During Marine Cold Air Outbreaks. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	6
5	CMIP6 Historical Simulations (1850&acirc;2014) With GISS&E2.1. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2019MS002034.	1.3	49
6	An overview of the ORACLES (ObseRvations of Aerosols above CLouds and their intEractionS) project: aerosol&acirc;cloud&acirc;radiation interactions in the southeast Atlantic basin. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1507-1563.	1.9	97
7	The prevalence of precipitation from polar supercooled clouds. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3949-3971.	1.9	20
8	Preconditioning of overcast-to-broken cloud transitions by riming in marine cold air outbreaks. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12049-12067.	1.9	19
9	Snow Reconciles Observed and Simulated Phase Partitioning and Increases Cloud Feedback. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094876.	1.5	10
10	GISS&E2.1: Configurations and Climatology. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002025.	1.3	234
11	Nonturbulent Liquid&acirc;Bearing Polar Clouds: Observed Frequency of Occurrence and Simulated Sensitivity to Gravity Waves. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087099.	1.5	14
12	A new look at the environmental conditions favorable to secondary ice production. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 1391-1429.	1.9	69
13	Global Statistics of Ice Microphysical and Optical Properties at Tops of Optically Thick Ice Clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031811.	1.2	16
14	Vertical profiles of droplet size distributions derived from cloud-side observations by the research scanning polarimeter: Tests on simulated data. <i>Atmospheric Research</i> , 2020, 239, 104924.	1.8	10
15	A Second-Order Closure Turbulence Model: New Heat Flux Equations and No Critical Richardson Number. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 2743-2759.	0.6	12
16	Persistent Supercooled Drizzle at Temperatures Below &sim;25&deg;C Observed at McMurdo Station, Antarctica. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 10878-10895.	1.2	19
17	Turbulent Transport in the Gray Zone: A Large Eddy Model Intercomparison Study of the CONSTRAIN Cold Air Outbreak Case. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 597-623.	1.3	16
18	Evaluating models' response of tropical low clouds to SST forcings using CALIPSO observations. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2813-2832.	1.9	34

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19	An Evaluation of Size-Resolved Cloud Microphysics Scheme Numerics for Use with Radar Observations. Part I: Collision&quot;Coalescence. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 247-263.	0.6	10
20	Simulation of Mesoscale Cellular Convection in Marine Stratocumulus. Part I: Drizzling Conditions. <i>Journals of the Atmospheric Sciences</i> , 2018, 75, 257-274.	0.6	15
21	Comparisons of bispectral and polarimetric retrievals of marine boundary layer cloud microphysics: case studies using a LES&quot;satellite retrieval simulator. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 3689-3715.	1.2	23
22	(GO)&lt;sup&gt;2&lt;/sup>-SIM: a GCM-oriented ground-observation forward-simulator framework for objective evaluation of cloud and precipitation phase. <i>Geoscientific Model Development</i> , 2018, 11, 4195-4214.	1.3	12
23	Remote Sensing of Droplet Number Concentration in Warm Clouds: A Review of the Current State of Knowledge and Perspectives. <i>Reviews of Geophysics</i> , 2018, 56, 409-453.	9.0	185
24	On the Forward Modeling of Radar Doppler Spectrum Width From LES: Implications for Model Evaluation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 7444-7461.	1.2	3
25	Sedimentation Efficiency of Condensation Clouds in Substellar Atmospheres. <i>Astrophysical Journal</i> , 2018, 855, 86.	1.6	63
26	Simulations of Arctic Mixed-Phase Boundary Layer Clouds: Advances in Understanding and Outstanding Questions. , 2018, , 153-183.		16
27	On the role of ice&quot;nucleating aerosol in the formation of ice particles in tropical mesoscale convective systems. <i>Geophysical Research Letters</i> , 2017, 44, 1574-1582.	1.5	45
28	A framework for quantifying the impacts of sub-pixel reflectance variance and covariance on cloud optical thickness and effective radius retrievals based on the bi-spectral method. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	1
29	Use of Cloud Radar Doppler Spectra to Evaluate Stratocumulus Drizzle Size Distributions in Large-Eddy Simulations with Size-Resolved Microphysics. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 3263-3283.	0.6	20
30	Single&quot;Column Model Simulations of Subtropical Marine Boundary&quot;Layer Cloud Transitions Under Weakening Inversions. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 2385-2412.	1.3	27
31	Derivation of aerosol profiles for MC3E convection studies and use in simulations of the 20&quot;May squall line case. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 5947-5972.	1.9	33
32	Impacts of solar-absorbing aerosol layers on the transition of stratocumulus to trade cumulus clouds. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12725-12742.	1.9	30
33	Large-Eddy Simulations of EUCLIPSE&quot;GASS Lagrangian Stratocumulus-to-Cumulus Transitions: Mean State, Turbulence, and Decoupling. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 2485-2508.	0.6	67
34	On Polarimetric Radar Signatures of Deep Convection for Model Evaluation: Columns of Specific Differential Phase Observed during MC3E*. <i>Monthly Weather Review</i> , 2016, 144, 737-758.	0.5	38
35	Polarized view of supercooled liquid water clouds. <i>Remote Sensing of Environment</i> , 2016, 181, 96-110.	4.6	23
36	A framework based on 2&quot;D Taylor expansion for quantifying the impacts of subpixel reflectance variance and covariance on cloud optical thickness and effective radius retrievals based on the bispectral method. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7007-7025.	1.2	53

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37	Derivation of physical and optical properties of mid-latitude cirrus ice crystals for a size-resolved cloud microphysics model. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7251-7283.	1.9	14
38	Select strengths and biases of models in representing the Arctic winter boundary layer over sea ice: the Larcform 1 single column model intercomparison. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 1345-1357.	1.3	43
39	Vertical variation of ice particle size in convective cloud tops. <i>Geophysical Research Letters</i> , 2016, 43, 4586-4593.	1.5	28
40	The impact of cloud vertical profile on liquid water path retrieval based on the bispectral method: A theoretical study based on large-eddy simulations of shallow marine boundary layer clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 4122-4141.	1.2	35
41	On Averaging Aspect Ratios and Distortion Parameters over Ice Crystal Population Ensembles for Estimating Effective Scattering Asymmetry Parameters. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 775-787.	0.6	10
42	Derivation of cumulus cloud dimensions and shape from the airborne measurements by the Research Scanning Polarimeter. <i>Remote Sensing of Environment</i> , 2016, 177, 144-152.	4.6	12
43	RACORO continental boundary layer cloud investigations: 2. Large-eddy simulations of cumulus clouds and evaluation with in situ and ground-based observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 5993-6014.	1.2	35
44	Frequency and causes of failed MODIS cloud property retrievals for liquid phase clouds over global oceans. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 4132-4154.	1.2	78
45	High ice water content at low radar reflectivity near deep convection " Part 1: Consistency of in situ and remote-sensing observations with stratiform rain column simulations. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11713-11728.	1.9	25
46	High ice water content at low radar reflectivity near deep convection " Part 2: Evaluation of microphysical pathways in updraft parcel simulations. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11729-11751.	1.9	32
47	Radiative flux and forcing parameterization error in aerosol-free clear skies. <i>Geophysical Research Letters</i> , 2015, 42, 5485-5492.	1.5	57
48	Liquid water cloud properties during the Polarimeter Definition Experiment (PODEX). <i>Remote Sensing of Environment</i> , 2015, 169, 20-36.	4.6	27
49	Properties of a Mesoscale Convective System in the Context of an Isentropic Analysis. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 1945-1962.	0.6	12
50	RACORO continental boundary layer cloud investigations: 1. Case study development and ensemble large-scale forcings. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 5962-5992.	1.2	20
51	Evaluation of cloud-resolving and limited area model intercomparison simulations using TWP-ICE observations: 1. Deep convective updraft properties. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 13,891.	1.2	100
52	A Flexible Parameterization for Shortwave Optical Properties of Ice Crystals*. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 1763-1782.	0.6	42
53	Intercomparison of large-eddy simulations of Arctic mixed-phase clouds: Importance of ice size distribution assumptions. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 223-248.	1.3	114
54	Variation of ice crystal size, shape, and asymmetry parameter in tops of tropical deep convective clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 11,809-11,825.	1.2	40

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55	Evaluation of cloud-resolving and limited area model intercomparison simulations using TWP-ICE observations: 2. Precipitation microphysics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 13,919.	1.2	47
56	Characterization of cloud microphysical parameters using airborne measurements by the research scanning polarimeter. , 2013, , .		2
57	The GASS/EUCLIPSE model intercomparison of the stratocumulus transition as observed during ASTEX: LES results. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 483-499.	1.3	55
58	Remote sensing of ice crystal asymmetry parameter using multi-directional polarization measurements – Part 2: Application to the Research Scanning Polarimeter. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3185-3203.	1.9	53
59	The GASS/EUCLIPSE model intercomparison of the stratocumulus transition as observed during ASTEX: LES results. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, , n/a-n/a.	1.3	3
60	Evaluation of Hydrometeor Phase and Ice Properties in Cloud-Resolving Model Simulations of Tropical Deep Convection Using Radiance and Polarization Measurements. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 3290-3314.	0.6	39
61	Remote sensing of ice crystal asymmetry parameter using multi-directional polarization measurements – Part 1: Methodology and evaluation with simulated measurements. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2361-2374.	1.2	65
62	A FIRE-ACE/SHEBA Case Study of Mixed-Phase Arctic Boundary Layer Clouds: Entrainment Rate Limitations on Rapid Primary Ice Nucleation Processes. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 365-389.	0.6	77
63	MASSES, RADII, AND CLOUD PROPERTIES OF THE HR 8799 PLANETS. <i>Astrophysical Journal</i> , 2012, 754, 135.	1.6	217
64	A comparison of TWP-ICE observational data with cloud-resolving model results. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	108
65	Effects of cloud horizontal inhomogeneity and drizzle on remote sensing of cloud droplet effective radius: Case studies based on large-eddy simulations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	139
66	Analysis of cloud-resolving simulations of a tropical mesoscale convective system observed during TWP-ICE: Vertical fluxes and draft properties in convective and stratiform regions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	26
67	Correction to – Evaluation of cloud-resolving model intercomparison simulations using TWP-ICE observations: Precipitation and cloud structure – <i>Journal of Geophysical Research</i> , 2012, 117, n/a-n/a.	3.3	0
68	Accuracy assessments of cloud droplet size retrievals from polarized reflectance measurements by the research scanning polarimeter. <i>Remote Sensing of Environment</i> , 2012, 125, 92-111.	4.6	90
69	Evaluation of cloud-resolving model intercomparison simulations using TWP-ICE observations: Precipitation and cloud structure. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	90
70	Millimeter wave scattering from ice crystals and their aggregates: Comparing cloud model simulations with X- and Ka-band radar measurements. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	34
71	Toward ice formation closure in Arctic mixed-phase boundary layer clouds during ISDAC. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	65
72	Controls on precipitation and cloudiness in simulations of trade-wind cumulus as observed during RICO. <i>Journal of Advances in Modeling Earth Systems</i> , 2011, 3, n/a-n/a.	1.3	249

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73	Intercomparison of cloud model simulations of Arctic mixed-phase boundary layer clouds observed during SHEBA/FIRE-ACE. <i>Journal of Advances in Modeling Earth Systems</i> , 2011, 3, n/a-n/a.	1.3	90
74	Influence of Humidified Aerosol on Lidar Depolarization Measurements below Ice-Precipitating Arctic Stratus. <i>Journal of Applied Meteorology and Climatology</i> , 2011, 50, 2184-2192.	0.6	6
75	Estimating the Sensitivity of Radiative Impacts of Shallow, Broken Marine Clouds to Boundary Layer Aerosol Size Distribution Parameter Uncertainties for Evaluation of Satellite Retrieval Requirements. <i>Journal of Atmospheric and Oceanic Technology</i> , 2011, 28, 530-538.	0.5	7
76	Testing remote sensing on artificial observations: impact of drizzle and 3-D cloud structure on effective radius retrievals. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9535-9549.	1.9	40
77	Cellular Statistical Models of Broken Cloud Fields. Part II: Comparison with a Dynamical Model and Statistics of Diverse Ensembles. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 2152-2170.	0.6	12
78	Cellular Statistical Models of Broken Cloud Fields. Part I: Theory. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 2125-2151.	0.6	25
79	Large-Eddy Simulations of a Drizzling, Stratocumulus-Topped Marine Boundary Layer. <i>Monthly Weather Review</i> , 2009, 137, 1083-1110.	0.5	208
80	Intercomparison of model simulations of mixed-phase clouds observed during the ARM Mixed-Phase Arctic Cloud Experiment. I: single-layer cloud. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 979-1002.	1.0	224
81	An evaluation of ice formation in large-eddy simulations of supercooled Arctic stratocumulus using ground-based lidar and cloud radar. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	15
82	Temporal and Spatial Variability of Clouds and Related Aerosols. , 2009, , 127-148.		2
83	A comparison of chemistry and dust cloud formation in ultracool dwarf model atmospheres. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 391, 1854-1873.	1.6	167
84	Validation and determination of ice water content-radar reflectivity relationships during CRYSTAL-FACE: Flight requirements for future comparisons. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	10
85	Cloud-scale model intercomparison of chemical constituent transport in deep convection. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4709-4731.	1.9	96
86	Can overshooting convection dehydrate the tropical tropopause layer?. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	92
87	A single-column model intercomparison of a heavily drizzling stratocumulus-topped boundary layer. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	60
88	Ice properties of single-layer stratocumulus during the Mixed-Phase Arctic Cloud Experiment: 2. Model results. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	165
89	Study of near-surface models for large-eddy simulations of a neutrally stratified atmospheric boundary layer. <i>Boundary-Layer Meteorology</i> , 2007, 124, 405-424.	1.2	30
90	Role of deep convection in establishing the isotopic composition of water vapor in the tropical transition layer. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	37

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91	Homogeneous aerosol freezing in the tops of high-altitude tropical cumulonimbus clouds. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	23
92	CO signatures in subtropical convective clouds and anvils during CRYSTAL-FACE: An analysis of convective transport and entrainment using observations and a cloud-resolving model. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	11
93	On the Application of the Dynamic Smagorinsky Model to Large-Eddy Simulations of the Cloud-Topped Atmospheric Boundary Layer. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 526-546.	0.6	40
94	Evaluation of Large-Eddy Simulations via Observations of Nocturnal Marine Stratocumulus. <i>Monthly Weather Review</i> , 2005, 133, 1443-1462.	0.5	519
95	The Role of Clouds in Brown Dwarf and Extrasolar Giant Planet Atmospheres. Symposium - International Astronomical Union, 2004, 202, 269-276.	0.1	0
96	Evidence for the Predominance of Mid-Tropospheric Aerosols as Subtropical Anvil Cloud Nuclei. <i>Science</i> , 2004, 304, 718-722.	6.0	112
97	The impact of humidity above stratiform clouds on indirect aerosol climate forcing. <i>Nature</i> , 2004, 432, 1014-1017.	13.7	622
98	Combining a receptor-oriented framework for tracer distributions with a cloud-resolving model to study transport in deep convective clouds: Application to the NASA CRYSTAL-FACE campaign. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	6
99	Enhancement of cloud cover and suppression of nocturnal drizzle in stratocumulus polluted by haze. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	68
100	Clouds and Clearings in the Atmospheres of the L and T Dwarfs. Symposium - International Astronomical Union, 2003, 211, 333-344.	0.1	4
101	Clouds and Chemistry: Ultracool Dwarf Atmospheric Properties from Optical and Infrared Colors. <i>Astrophysical Journal</i> , 2002, 568, 335-342.	1.6	291
102	A Bayesian algorithm for the retrieval of liquid water cloud properties from microwave radiometer and millimeter radar data. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 12-1.	3.3	44
103	Evidence of Cloud Disruption in the L/T Dwarf Transition. <i>Astrophysical Journal</i> , 2002, 571, L151-L154.	1.6	212
104	L Dwarf Variability: I-band Observations. <i>Astrophysical Journal</i> , 2002, 577, 433-446.	1.6	139
105	Effects of Domain Size and Numerical Resolution on the Simulation of Shallow Cumulus Convection. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 3285-3301.	0.6	98
106	A conceptual model of the dehydration of air due to freeze-drying by optically thin, laminar cirrus rising slowly across the tropical tropopause. <i>Journal of Geophysical Research</i> , 2001, 106, 17237-17252.	3.3	101
107	Precipitating Condensation Clouds in Substellar Atmospheres. <i>Astrophysical Journal</i> , 2001, 556, 872-884.	1.6	620
108	Simulations of Trade Wind Cumuli under a Strong Inversion. <i>Journals of the Atmospheric Sciences</i> , 2001, 58, 1870-1891.	0.6	212

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109	Drizzle Suppression in Ship Tracks. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 2707-2728.	0.6	97
110	Effects of Aerosols on Cloud Albedo: Evaluation of Twomey's Parameterization of Cloud Susceptibility Using Measurements of Ship Tracks. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 2684-2695.	0.6	160
111	Reduction of Tropical Cloudiness by Soot. <i>Science</i> , 2000, 288, 1042-1047.	6.0	1,125
112	A case-study of pronounced perturbations to cloud properties and boundary-layer dynamics due to aerosol emissions. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1999, 125, 2643-2661.	1.0	20
113	Spreading and growth of contrails in a sheared environment. <i>Journal of Geophysical Research</i> , 1998, 103, 31557-31567.	3.3	69
114	Unrealistic desiccation of marine stratocumulus clouds by enhanced solar absorption. <i>Nature</i> , 1996, 380, 512-515.	13.7	16
115	A Model for Particle Microphysics, Turbulent Mixing, and Radiative Transfer in the Stratocumulus-Topped Marine Boundary Layer and Comparisons with Measurements. <i>Journals of the Atmospheric Sciences</i> , 1995, 52, 1204-1236.	0.6	131
116	Effects of aging on the smoke from a large forest fire. <i>Atmospheric Research</i> , 1995, 38, 315-332.	1.8	37
117	Numerical modeling of ship tracks produced by injections of cloud condensation nuclei into marine stratiform clouds. <i>Journal of Geophysical Research</i> , 1995, 100, 7121-7133.	3.3	48
118	Reassessing the dependence of cloud condensation nucleus concentration on formation rate. <i>Nature</i> , 1994, 367, 445-447.	13.7	28
119	New microphysics sensor for aircraft use. <i>Atmospheric Research</i> , 1994, 31, 235-252.	1.8	192
120	Dissipation of Marine Stratiform Clouds and Collapse of the Marine Boundary Layer Due to the Depletion of Cloud Condensation Nuclei by Clouds. <i>Science</i> , 1993, 262, 226-229.	6.0	100