C S Bretherton

List of Publications by Year
in descending order

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129	19,532	22153	15266
papers	citations	59 h-index	126 g-index

161	161	161	11689
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Correcting Coarseâ€Grid Weather and Climate Models by Machine Learning From Global Stormâ€Resolving Simulations. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	23
2	Tropical Cirrus in Global Stormâ€Resolving Models: 1. Role of Deep Convection. Earth and Space Science, 2022, 9, .	2.6	15
3	Tropical Cirrus in Global Stormâ€Resolving Models: 2. Cirrus Life Cycle and Topâ€ofâ€Atmosphere Radiative Fluxes. Earth and Space Science, 2022, 9, .	2.6	13
4	Hallettâ€Mossop Rime Splintering Dims Cumulus Clouds Over the Southern Ocean: New Insight From Nudged Global Stormâ€Resolving Simulations. AGU Advances, 2022, 3, .	5.4	5
5	Loadâ€Balancing Intense Physics Calculations to Embed Regionalized Highâ€Resolution Cloud Resolving Models in the E3SM and CESM Climate Models. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	1
6	Global System for Atmospheric Modeling: Model Description and Preliminary Results. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	4
7	Evaluation of Cloud and Precipitation Simulations in CAM6 and AM4 Using Observations Over the Southern Ocean. Earth and Space Science, 2021, 8, e2020EA001241.	2.6	10
8	Influences of Recent Particle Formation on Southern Ocean Aerosol Variability and Low Cloud Properties. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033529.	3.3	32
9	Observations of Clouds, Aerosols, Precipitation, and Surface Radiation over the Southern Ocean: An Overview of CAPRICORN, MARCUS, MICRE, and SOCRATES. Bulletin of the American Meteorological Society, 2021, 102, E894-E928.	3.3	103
10	Cloud Process Coupling and Time Integration in the E3SM Atmosphere Model. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002359.	3.8	6
11	Wavelet Analysis of Properties of Marine Boundary Layer Mesoscale Cells Observed From AMSRâ€E. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034666.	3.3	3
12	fv3gfs-wrapper: a Python wrapper of the FV3GFS atmospheric model. Geoscientific Model Development, 2021, 14, 4401-4409.	3.6	8
13	Correcting Weather and Climate Models by Machine Learning Nudged Historical Simulations. Geophysical Research Letters, 2021, 48, e2021GL092555.	4.0	40
14	An Assessment of Earth's Climate Sensitivity Using Multiple Lines of Evidence. Reviews of Geophysics, 2020, 58, e2019RG000678.	23.0	498
15	How Well Do Largeâ€Eddy Simulations and Global Climate Models Represent Observed Boundary Layer Structures and Low Clouds Over the Summertime Southern Ocean?. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002205.	3.8	26
16	Simulating Observations of Southern Ocean Clouds and Implications for Climate. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032619.	3.3	42
17	The Impact of Resolving Subkilometer Processes on Aerosolâ€Cloud Interactions of Lowâ€Level Clouds in Global Model Simulations. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002274.	3.8	16
18	Numerically Relevant Timescales in the MG2 Microphysics Model. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001972.	3.8	6

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19	The Role of Multiscale Interaction in Tropical Cyclogenesis and Its Predictability in Near-Global Aquaplanet Cloud-Resolving Simulations. Journals of the Atmospheric Sciences, 2020, 77, 2847-2863.	1.7	6
20	Interpreting and Stabilizing Machine-Learning Parametrizations of Convection. Journals of the Atmospheric Sciences, 2020, 77, 4357-4375.	1.7	49
21	Combining Emergent Constraints for Climate Sensitivity. Journal of Climate, 2020, 33, 7413-7430.	3.2	16
22	Spatially Extended Tests of a Neural Network Parametrization Trained by Coarseâ€Graining. Journal of Advances in Modeling Earth Systems, 2019, 11, 2728-2744.	3.8	78
23	Understanding Negative Subtropical Shallow Cumulus Cloud Feedbacks in a Nearâ€Global Aquaplanet Model Using Limited Area Cloudâ€Resolving Simulations. Journal of Advances in Modeling Earth Systems, 2019, 11, 1600-1626.	3.8	8
24	Singleâ€Column Emulation of Reanalysis of the Northeast Pacific Marine Boundary Layer. Geophysical Research Letters, 2019, 46, 10053-10060.	4.0	8
25	The Correlation of Mesoscale Humidity Anomalies With Mesoscale Organization of Marine Stratocumulus From Observations Over the ARM Eastern North Atlantic Site. Journal of Geophysical Research D: Atmospheres, 2019, 124, 14059-14071.	3.3	4
26	Cloud System Evolution in the Trades (CSET): Following the Evolution of Boundary Layer Cloud Systems with the NSFâ€“NCAR GV. Bulletin of the American Meteorological Society, 2019, 100, 93-121.	3.3	49
27	Evolution of the Doubleâ€ITCZ Bias Through CESM2 Development. Journal of Advances in Modeling Earth Systems, 2019, 11, 1873-1893.	3.8	20
28	Cloud, Aerosol, and Boundary Layer Structure across the Northeast Pacific Stratocumulusâ€“Cumulus Transition as Observed during CSET. Monthly Weather Review, 2019, 147, 2083-2103.	1.4	17
29	Simulation of Mesoscale Cellular Convection in Marine Stratocumulus: 2. Nondrizzling Conditions. Journal of Advances in Modeling Earth Systems, 2019, 11, 3-18.	3.8	12
30	100 Years of Progress in Boundary Layer Meteorology. Meteorological Monographs, 2019, 59, 9.1-9.85.	5.0	61
31	Lagrangian Evolution of the Northeast Pacific Marine Boundary Layer Structure and Cloud during CSET. Monthly Weather Review, 2019, 147, 4681-4700.	1.4	13
32	DYAMOND: the DYnamics of the Atmospheric general circulation Modeled On Non-hydrostatic Domains. Progress in Earth and Planetary Science, 2019, 6, .	3.0	239
33	Estimating Bulk Entrainment With Unaggregated and Aggregated Convection. Geophysical Research Letters, 2018, 45, 455-462.	4.0	41
34	Reexamining the Nonlinear Moistureâ€Precipitation Relationship Over the Tropical Oceans. Geophysical Research Letters, 2018, 45, 1133-1140.	4.0	64
35	The Sensitivity of Numerical Simulations of Cloudâ€Topped Boundary Layers to Crossâ€Grid Flow. Journal of Advances in Modeling Earth Systems, 2018, 10, 466-480.	3.8	7
36	Sensitivity of Coupled Tropical Pacific Model Biases to Convective Parameterization in CESM1. Journal of Advances in Modeling Earth Systems, 2018, 10, 126-144.	3.8	26

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37	Insensitivity of the Cloud Response to Surface Warming Under Radical Changes to Boundary Layer Turbulence and Cloud Microphysics: Results From the Ultraparameterized CAM. Journal of Advances in Modeling Earth Systems, 2018, 10, 3139-3158.	3.8	20
38	Locally Enhanced Aerosols Over a Shipping Lane Produce Convective Invigoration but Weak Overall Indirect Effects in Cloudâ€Resolving Simulations. Geophysical Research Letters, 2018, 45, 9305-9313.	4.0	12
39	DNS and LES for Simulating Stratocumulus: Better Together. Journal of Advances in Modeling Earth Systems, 2018, 10, 1421-1438.	3.8	49
40	Ultraclean Layers and Optically Thin Clouds in the Stratocumulus-to-Cumulus Transition. Part I: Observations. Journals of the Atmospheric Sciences, 2018, 75, 1631-1652.	1.7	46
41	Ultraclean Layers and Optically Thin Clouds in the Stratocumulus-to-Cumulus Transition. Part II: Depletion of Cloud Droplets and Cloud Condensation Nuclei through Collisionâ€“Coalescence. Journals of the Atmospheric Sciences, 2018, 75, 1653-1673.	1.7	14
42	Prognostic Validation of a Neural Network Unified Physics Parameterization. Geophysical Research Letters, 2018, 45, 6289-6298.	4.0	203
43	Climate goals and computing the future of clouds. Nature Climate Change, 2017, 7, 3-5.	18.8	177
44	Toward lowâ€cloudâ€permitting cloud superparameterization with explicit boundary layer turbulence. Journal of Advances in Modeling Earth Systems, 2017, 9, 1542-1571.	3.8	43
45	Cloud and circulation feedbacks in a nearâ€global aquaplanet cloudâ€resolving model. Journal of Advances in Modeling Earth Systems, 2017, 9, 1069-1090.	3.8	21
46	Skill of shipâ€following largeâ€eddy simulations in reproducing <scp>MAGIC</scp> observations across the northeast <scp>P</scp>acific stratocumulus to cumulus transition region. Journal of Advances in Modeling Earth Systems, 2017, 9, 810-831.	3.8	30
47	Understanding Mesoscale Aggregation of Shallow Cumulus Convection Using Largeâ€Eddy Simulation. Journal of Advances in Modeling Earth Systems, 2017, 9, 2798-2821.	3.8	56
48	The Cloud Feedback Model Intercomparison Project (CFMIP) contribution to CMIP6. Geoscientific Model Development, 2017, 10, 359-384.	3.6	186
49	Improving our fundamental understanding of the role of aerosolâ^'cloud interactions in the climate system. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5781-5790.	7.1	479
50	Implementation in the NCEP GFS of a Hybrid Eddy-Diffusivity Mass-Flux (EDMF) Boundary Layer Parameterization with Dissipative Heating and Modified Stable Boundary Layer Mixing. Weather and Forecasting, 2016, 31, 341-352.	1.4	80
51	<scp>CGILS P</scp>hase 2 <scp>LES</scp> intercomparison of response of subtropical marine low cloud regimes to <scp>CO</scp>₂ quadrupling and a <scp>CMIP</scp>3 composite forcing change. Journal of Advances in Modeling Earth Systems, 2016, 8, 1714-1726.	3.8	19
52	Clouds, Aerosols, and Precipitation in the Marine Boundary Layer: An Arm Mobile Facility Deployment. Bulletin of the American Meteorological Society, 2016, 2016, 419-440.	3.3	0
53	The impact of parametrized convection on cloud feedback. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140414.	3.4	63
54	Meanâ€state acceleration of cloudâ€resolving models and large eddy simulations. Journal of Advances in Modeling Earth Systems, 2015, 7, 1643-1660.	3.8	14

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55	Convective selfâ€aggregation feedbacks in nearâ€global cloudâ€resolving simulations of an aquaplanet. Journal of Advances in Modeling Earth Systems, 2015, 7, 1765-1787.	3.8	96
56	Large eddy simulation of ship tracks in the collapsed marine boundary layer: a case study from the Monterey area ship track experiment. Atmospheric Chemistry and Physics, 2015, 15, 5851-5871.	4.9	23
57	Global and regional modeling of clouds and aerosols in the marine boundary layer during VOCALS: the VOCA intercomparison. Atmospheric Chemistry and Physics, 2015, 15, 153-172.	4.9	36
58	Clouds, Aerosols, and Precipitation in the Marine Boundary Layer: An Arm Mobile Facility Deployment. Bulletin of the American Meteorological Society, 2015, 96, 419-440.	3.3	117
59	Insights into low-latitude cloud feedbacks from high-resolution models. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140415.	3.4	164
60	Oceanâ€“Cloudâ€“Atmosphereâ€“Land Interactions in the Southeastern Pacific: The VOCALS Program. Bulletin of the American Meteorological Society, 2014, 95, 357-375.	3.3	76
61	Low cloud reduction in a greenhouseâ€warmed climate: Results from Lagrangian LES of a subtropical marine cloudiness transition. Journal of Advances in Modeling Earth Systems, 2014, 6, 91-114.	3.8	84
62	Fast stratocumulus time scale in mixed layer model and large eddy simulation. Journal of Advances in Modeling Earth Systems, 2014, 6, 206-222.	3.8	22
63	Restricting 32â€“128 km horizontal scales hardly affects the MJO in the Superparameterized Community Atmosphere Model v.3.0 but the number of cloudâ€resolving grid columns constrains vertical mixing. Journal of Advances in Modeling Earth Systems, 2014, 6, 723-739.	3.8	30
64	Cloud feedbacks on greenhouse warming in the superparameterized climate model <scp>SPâ€CCSM</scp>4. Journal of Advances in Modeling Earth Systems, 2014, 6, 1185-1204.	3.8	22
65	Statistical significance of climate sensitivity predictors obtained by data mining. Geophysical Research Letters, 2014, 41, 1803-1808.	4.0	109
66	Aircraft observations of aerosol, cloud, precipitation, and boundary layer properties in pockets of open cells over the southeast Pacific. Atmospheric Chemistry and Physics, 2014, 14, 8071-8088.	4.9	43
67	CGILS: Results from the first phase of an international project to understand the physical mechanisms of low cloud feedbacks in single column models. Journal of Advances in Modeling Earth Systems, 2013, 5, 826-842.	3.8	140
68	Mechanisms of marine low cloud sensitivity to idealized climate perturbations: A singleâ€LES exploration extending the CGILS cases. Journal of Advances in Modeling Earth Systems, 2013, 5, 316-337.	3.8	180
69	The GASS/EUCLIPSE model intercomparison of the stratocumulus transition as observed during ASTEX: LES results. Journal of Advances in Modeling Earth Systems, 2013, 5, 483-499.	3.8	55
70	Marine low cloud sensitivity to an idealized climate change: The CGILS LES intercomparison. Journal of Advances in Modeling Earth Systems, 2013, 5, 234-258.	3.8	128
71	Marine boundary layer cloud regimes and POC formation in a CRM coupled to a bulk aerosol scheme. Atmospheric Chemistry and Physics, 2013, 13, 12549-12572.	4.9	55
72	Development and impact of hooks of high droplet concentration on remote southeast Pacific stratocumulus. Atmospheric Chemistry and Physics, 2013, 13, 6305-6328.	4.9	13

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73	Toward a minimal representation of aerosols in climate models: description and evaluation in the Community Atmosphere Model CAM5. Geoscientific Model Development, 2012, 5, 709-739.	3.6	807
74	Fast cloud adjustment to increasing CO₂ in a superparameterized climate model. Journal of Advances in Modeling Earth Systems, 2012, 4, .	3.8	45
75	The CGILS experimental design to investigate low cloud feedbacks in general circulation models by using singleâ€column and largeâ€eddy simulation models. Journal of Advances in Modeling Earth Systems, 2012, 4, .	3.8	35
76	South East Pacific atmospheric composition and variability sampled along 20Â° S during VOCALS-REx. Atmospheric Chemistry and Physics, 2011, 11, 5237-5262.	4.9	119
77	An aircraft case study of the spatial transition from closed to open mesoscale cellular convection over the Southeast Pacific. Atmospheric Chemistry and Physics, 2011, 11, 2341-2370.	4.9	142
78	The VAMOS Ocean-Cloud-Atmosphere-Land Study Regional Experiment (VOCALS-REx): goals, platforms, and field operations. Atmospheric Chemistry and Physics, 2011, 11, 627-654.	4.9	272
79	Coupled vs. decoupled boundary layers in VOCALS-REx. Atmospheric Chemistry and Physics, 2011, 11, 7143-7153.	4.9	118
80	Simulating deep convection with a shallow convection scheme. Atmospheric Chemistry and Physics, 2011, 11, 10389-10406.	4.9	53
81	Large-eddy simulation of mesoscale dynamics and entrainment around a pocket of open cells observed in VOCALS-REx RF06. Atmospheric Chemistry and Physics, 2011, 11, 10525-10540.	4.9	50
82	The sensitivity of stratocumulus-capped mixed layers to cloud droplet concentration: do LES and mixed-layer models agree?. Atmospheric Chemistry and Physics, 2010, 10, 4097-4109.	4.9	14
83	Southeast Pacific stratocumulus clouds, precipitation and boundary layer structure sampled along 20Â° S during VOCALS-REx. Atmospheric Chemistry and Physics, 2010, 10, 10639-10654.	4.9	161
84	The PreVOCA experiment: modeling the lower troposphere in the Southeast Pacific. Atmospheric Chemistry and Physics, 2010, 10, 4757-4774.	4.9	109
85	Slow Manifolds and Multiple Equilibria in Stratocumulusâ€Capped Boundary Layers. Journal of Advances in Modeling Earth Systems, 2010, 2, .	3.8	53
86	Large-Eddy Simulations of a Drizzling, Stratocumulus-Topped Marine Boundary Layer. Monthly Weather Review, 2009, 137, 1083-1110.	1.4	208
87	Evaluation of Forecasted Southeast Pacific Stratocumulus in the NCAR, GFDL, and ECMWF Models. Journal of Climate, 2009, 22, 2871-2889.	3.2	94
88	The University of Washington Shallow Convection and Moist Turbulence Schemes and Their Impact on Climate Simulations with the Community Atmosphere Model. Journal of Climate, 2009, 22, 3449-3469.	3.2	515
89	Large Eddy Simulation of the Diurnal Cycle in Southeast Pacific Stratocumulus. Journals of the Atmospheric Sciences, 2009, 66, 432-449.	1.7	39
90	A New Moist Turbulence Parameterization in the Community Atmosphere Model. Journal of Climate, 2009, 22, 3422-3448.	3.2	577

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91	Subtropical Low Cloud Response to a Warmer Climate in a Superparameterized Climate Model. Part I: Regime Sorting and Physical Mechanisms. Journal of Advances in Modeling Earth Systems, 2009, 1, .	3.8	55
92	Subtropical Low Cloud Response to a Warmer Climate in a Superparameterized Climate Model. Part II: Column Modeling with a Cloud Resolving Model. Journal of Advances in Modeling Earth Systems, 2009, 1, .	3.8	48
93	Open cellular structure in marine stratocumulus sheets. Journal of Geophysical Research, 2008, 113, .	3.3	101
94	Mechanisms of Low Cloudâ€“Climate Feedback in Idealized Single-Column Simulations with the Community Atmospheric Model, Version 3 (CAM3). Journal of Climate, 2008, 21, 4859-4878.	3.2	56
95	A New Bulk Shallow-Cumulus Model and Implications for Penetrative Entrainment Feedback on Updraft Buoyancy. Journals of the Atmospheric Sciences, 2008, 65, 2174-2193.	1.7	36
96	Cloud droplet sedimentation, entrainment efficiency, and subtropical stratocumulus albedo. Geophysical Research Letters, 2007, 34, .	4.0	209
97	The Three-Dimensional Structure and Kinematics of Drizzling Stratocumulus. Monthly Weather Review, 2007, 135, 3767-3784.	1.4	60
98	Climate sensitivity and cloud response of a GCM with a superparameterization. Geophysical Research Letters, 2006, 33, .	4.0	68
99	How Well Do We Understand and Evaluate Climate Change Feedback Processes?. Journal of Climate, 2006, 19, 3445-3482.	3.2	849
100	On the Relationship between Stratiform Low Cloud Cover and Lower-Tropospheric Stability. Journal of Climate, 2006, 19, 6425-6432.	3.2	462
101	Maximal Overlap Wavelet Statistical Analysis With Application to Atmospheric Turbulence. Boundary-Layer Meteorology, 2006, 119, 339-374.	2.3	142
102	Structure of tropical variability from a vertical mode perspective. Theoretical and Computational Fluid Dynamics, 2006, 20, 501-524.	2.2	49
103	A Mass-Flux Scheme View of a High-Resolution Simulation of a Transition from Shallow to Deep Cumulus Convection. Journals of the Atmospheric Sciences, 2006, 63, 1895-1909.	1.7	232
104	The Community Climate System Model Version 3 (CCSM3). Journal of Climate, 2006, 19, 2122-2143.	3.2	2,075
105	An Energy-Balance Analysis of Deep Convective Self-Aggregation above Uniform SST. Journals of the Atmospheric Sciences, 2005, 62, 4273-4292.	1.7	432
106	Evaluation of Large-Eddy Simulations via Observations of Nocturnal Marine Stratocumulus. Monthly Weather Review, 2005, 133, 1443-1462.	1.4	519
107	POCKETS OF OPEN CELLS AND DRIZZLE IN MARINE STRATOCUMULUS. Bulletin of the American Meteorological Society, 2005, 86, 51-58.	3.3	236
108	Intercomparison and Interpretation of Single-Column Model Simulations of a Nocturnal Stratocumulus-Topped Marine Boundary Layer. Monthly Weather Review, 2005, 133, 2741-2758.	1.4	74

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109	Relationships between Water Vapor Path and Precipitation over the Tropical Oceans. Journal of Climate, 2004, 17, 1517-1528.	3.2	511
110	Reflectivity and rain rate in and below drizzling stratocumulus. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 2891-2918.	2.7	190
111	A New Parameterization for Shallow Cumulus Convection and Its Application to Marine Subtropical Cloud-Topped Boundary Layers. Part I: Description and 1D Results. Monthly Weather Review, 2004, 132, 864-882.	1.4	368
112	Boundary Layer Depth, Entrainment, and Decoupling in the Cloud-Capped Subtropical and Tropical Marine Boundary Layer. Journal of Climate, 2004, 17, 3576-3588.	3.2	209
113	The Epic 2001 Stratocumulus Study. Bulletin of the American Meteorological Society, 2004, 85, 967-978.	3.3	310
114	Confronting Models with Data: The GEWEX Cloud Systems Study. Bulletin of the American Meteorological Society, 2003, 84, 455-470.	3.3	170
115	A Large Eddy Simulation Intercomparison Study of Shallow Cumulus Convection. Journals of the Atmospheric Sciences, 2003, 60, 1201-1219.	1.7	607
116	Dynamics and Chemistry of Marine Stratocumulusâ€"DYCOMS-II. Bulletin of the American Meteorological Society, 2003, 84, 579-594.	3.3	209
117	A Simple Model of a Convectively Coupled Walker Circulation Using the Weak Temperature Gradient Approximation. Journal of Climate, 2002, 15, 2907-2920.	3.2	121
118	Modeling Tropical Precipitation in a Single Column. Journal of Climate, 2000, 13, 4378-4392.	3.2	311
119	An intercomparison of radiatively driven entrainment and turbulence in a smoke cloud, as simulated by different numerical models. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 391-423.	2.7	159
120	The Effective Number of Spatial Degrees of Freedom of a Time-Varying Field. Journal of Climate, 1999, 12, 1990-2009.	3.2	1,128
121	Moisture Transport, Lower-Tropospheric Stability, and Decoupling of Cloud-Topped Boundary Layers. Journals of the Atmospheric Sciences, 1997, 54, 148-167.	1.7	354
122	Cloudiness and Marine Boundary Layer Dynamics in the ASTEX Lagrangian Experiments. Part II: Cloudiness, Drizzle, Surface Fluxes, and Entrainment. Journals of the Atmospheric Sciences, 1995, 52, 2724-2735.	1.7	125
123	On large-scale circulations in convecting atmospheres. Quarterly Journal of the Royal Meteorological Society, 1994, 120, 1111-1143.	2.7	703
124	A Numerical Investigation of Cloud-Top Entrainment Instability and Related Experiments. Quarterly Journal of the Royal Meteorological Society, 1992, 118, 787-818.	2.7	31
125	A numerical investigation of cloud-top entrainment instability and related experiments. Quarterly Journal of the Royal Meteorological Society, 1992, 118, 787-818.	2.7	2
126	Buoyancy reversal and cloud-top entrainment instability. Quarterly Journal of the Royal Meteorological Society, 1990, 116, 705-739.	2.7	90

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127	Gravity Waves, Compensating Subsidence and Detrainment around Cumulus Clouds. Journals of the Atmospheric Sciences, 1989, 46, 740-759.	1.7	289
128	Thresholds in frequency estimation. , 0, , .		25
129	High freeâ€tropospheric Aitkenâ€mode aerosol concentrations buffer cloud droplet concentrations in largeâ€eddy simulations of precipitating stratocumulus. Journal of Advances in Modeling Earth Systems, 0, , .	3.8	3