

# B Stevens

## List of Publications by Year in descending order

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239  
papers

32,818  
citations

6840

81  
h-index

5347

170  
g-index

251  
all docs

251  
docs citations

251  
times ranked

25801  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global variability in radiative-convective equilibrium with a slab ocean under a wide range of CO <sub>2</sub> concentrations. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 72, 1699387.	0.8	6
2	VELOX – a new thermal infrared imager for airborne remote sensing of cloud and surface properties. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 1491-1509.	1.2	3
3	The ICON Earth System Model Version 1.0. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	16
4	Thank You to Our 2021 Peer Reviewers. <i>AGU Advances</i> , 2022, 3, .	2.3	0
5	A digital twin of Earth for the green transition. <i>Nature Climate Change</i> , 2021, 11, 80-83.	8.1	158
6	Ship- and island-based atmospheric soundings from the 2020 EUREC4A field campaign. <i>Earth System Science Data</i> , 2021, 13, 491-514.	3.7	26
7	Confronting Racism to Advance Our Science. <i>AGU Advances</i> , 2021, 2, e2020AV000296.	2.3	1
8	Thank You to Our 2020 Peer Reviewers. <i>AGU Advances</i> , 2021, 2, e2021AV000426.	2.3	0
9	How Rossby wave breaking modulates the water cycle in the North Atlantic trade wind region. <i>Weather and Climate Dynamics</i> , 2021, 2, 281-309.	1.2	17
10	Dependence of Climate Sensitivity on the Given Distribution of Relative Humidity. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092462.	1.5	16
11	Convective self-aggregation in a mean flow. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 10337-10345.	1.9	1
12	Measuring Shallow Convective Mass Flux Profiles in the Trade Wind Region. <i>Journals of the Atmospheric Sciences</i> , 2021, 78, 3205-3214.	0.6	6
13	EUREC4A. <i>Earth System Science Data</i> , 2021, 13, 4067-4119.	3.7	88
14	Characterization and Evolution of Organized Shallow Convection in the Downstream North Atlantic Trades. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034575.	1.2	27
15	Earth's Albedo and Its Symmetry. <i>AGU Advances</i> , 2021, 2, e2021AV000440.	2.3	18
16	Variations of Tropical Lapse Rates in Climate Models and their Implications for Upper Tropospheric Warming. <i>Journal of Climate</i> , 2021, , 1-50.	1.2	7
17	Changes in the Tropical Lapse Rate due to Entrainment and Their Impact on Climate Sensitivity. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094969.	1.5	4
18	Visualization of Climate Science Simulation Data. <i>IEEE Computer Graphics and Applications</i> , 2021, 41, 42-48.	1.0	1

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19	Tropical Cyclones in Global Storm-Resolving Models. <i>Journal of the Meteorological Society of Japan</i> , 2021, 99, 579-602.	0.7	28
20	Tropical Freeâ€Tropospheric Humidity Differences and Their Effect on the Clearâ€Sky Radiation Budget in Global Stormâ€Resolving Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, .	1.3	8
21	Temperatureâ€Dependence of the Clearâ€Sky Feedback in Radiativeâ€Convective Equilibrium. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	8
22	JOANNE: Joint dropsonde Observations of the Atmosphere in tropical North atlAntic meso-scale Environments. <i>Earth System Science Data</i> , 2021, 13, 5253-5272.	3.7	27
23	EUREC&lt;sup&gt;4&lt;/sup&lt;/sup&gt;A's &lt;i&gt;HALO&lt;/i&lt;/sup&gt;. <i>Earth System Science Data</i> , 2021, 13, 5545-5563.	3.7	24
24	Bounding Global Aerosol Radiative Forcing of Climate Change. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000660.	9.0	424
25	Sugar, gravel, fish and flowers: Mesoscale cloud patterns in the trade winds. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 141-152.	1.0	78
26	Influence of deepening and mesoscale organization of shallow convection on stratiform cloudiness in the downstream trades. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 174-185.	1.0	13
27	Clouds and Convective Selfâ€Aggregation in a Multimodel Ensemble of Radiativeâ€Convective Equilibrium Simulations. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002138.	1.3	86
28	Linking Largeâ€Eddy Simulations to Local Cloud Observations. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002209.	1.3	9
29	Historical, Philosophical, and Sociological Perspectives on Earth System Modeling. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002139.	1.3	2
30	Thank You to Our 2019 Reviewers. <i>AGU Advances</i> , 2020, 1, e2020AV000181.	2.3	0
31	Mesoscale marine tropical precipitation varies independently from the spatial arrangement of its convective cells. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 1391-1402.	1.0	9
32	AGU Advances Goes Online. <i>AGU Advances</i> , 2020, 1, e2019AV000105.	2.3	0
33	Simulated Tropical Precipitation Assessed across Three Major Phases of the Coupled Model Intercomparison Project (CMIP). <i>Monthly Weather Review</i> , 2020, 148, 3653-3680.	0.5	92
34	Climate Statistics in Global Simulations of the Atmosphere, from 80 to 2.5 km Grid Spacing. <i>Journal of the Meteorological Society of Japan</i> , 2020, 98, 73-91.	0.7	55
35	The Added Value of Large-eddy and Storm-resolving Models for Simulating Clouds and Precipitation. <i>Journal of the Meteorological Society of Japan</i> , 2020, 98, 395-435.	0.7	93
36	What could we learn about climate sensitivity from variability in the surface temperature record?. <i>Earth System Dynamics</i> , 2020, 11, 709-719.	2.7	3

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37	A Standardized Atmospheric Measurement Data Archive for Distributed Cloud and Precipitation Process-Oriented Observations in Central Europe. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 1299-1314.	1.7	6
38	A Moist Conceptual Model for the Boundary Layer Structure and Radiatively Driven Shallow Circulations in the Trades. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 1289-1306.	0.6	23
39	Re-Examining the First Climate Models: Climate Sensitivity of a Modern Radiative-Convective Equilibrium Model. <i>Journal of Climate</i> , 2019, 32, 8111-8125.	1.2	27
40	A New Perspective for Future Precipitation Change from Intense Extratropical Cyclones. <i>Geophysical Research Letters</i> , 2019, 46, 12435-12444.	1.5	19
41	A High-Altitude Long-Range Aircraft Configured as a Cloud Observatory: The NARVAL Expeditions. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 1061-1077.	1.7	47
42	First forcing estimates from the future CMIP6 scenarios of anthropogenic aerosol optical properties and an associated Twomey effect. <i>Geoscientific Model Development</i> , 2019, 12, 989-1007.	1.3	27
43	Global Cloud-Resolving Models. <i>Current Climate Change Reports</i> , 2019, 5, 172-184.	2.8	164
44	The Max Planck Institute Grand Ensemble: Enabling the Exploration of Climate System Variability. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2050-2069.	1.3	288
45	Developments in the MPI Earth System Model version 1.2 (MPI-ESM1.2) and Its Response to Increasing CO <sub>2</sub> . <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 998-1038.	1.3	582
46	Assessing the scales in numerical weather and climate predictions: will exascale be the rescue?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180148.	1.6	48
47	Deep learning and process understanding for data-driven Earth system science. <i>Nature</i> , 2019, 566, 195-204.	13.7	2,176
48	A New Look at the Daily Cycle of Trade Wind Cumuli. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3148-3166.	1.3	48
49	The scientific challenge of understanding and estimating climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 24390-24395.	3.3	96
50	Measuring Area-Averaged Vertical Motions with Dropsondes. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 767-783.	0.6	50
51	Tropics as Tempest. , 2019, , 299-310.		2
52	DYAMOND: the DYNAMICS of the Atmospheric general circulation Modeled On Non-hydrostatic Domains. <i>Progress in Earth and Planetary Science</i> , 2019, 6, .	1.1	239
53	A unified data set of airborne cloud remote sensing using the HALO Microwave Package (HAMP). <i>Earth System Science Data</i> , 2019, 11, 921-934.	3.7	18
54	Estimating Bulk Entrainment With Unaggregated and Aggregated Convection. <i>Geophysical Research Letters</i> , 2018, 45, 455-462.	1.5	41

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55	The Impact of Vertical Mixing Biases in Large-Eddy Simulation on Nocturnal Low Clouds. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1290-1303.	1.3	6
56	A Workshop on Remote Sensing of the Atmosphere in Anticipation of the EarthCARE Satellite Mission. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, ES195-ES198.	1.7	2
57	ICON, The Atmosphere Component of the ICON Earth System Model: II. Model Evaluation. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1638-1662.	1.3	44
58	Reply to "Comments on "Rethinking the Lower Bound on Aerosol Radiative Forcing". <i>Journal of Climate</i> , 2018, 31, 9413-9416.	1.2	1
59	Observing the Tropical Atmosphere in Moisture Space. <i>Journals of the Atmospheric Sciences</i> , 2018, 75, 3313-3330.	0.6	17
60	The climate of a retrograde rotating Earth. <i>Earth System Dynamics</i> , 2018, 9, 1191-1215.	2.7	21
61	DNS and LES for Simulating Stratocumulus: Better Together. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1421-1438.	1.3	49
62	The Signature of Shallow Circulations, Not Cloud Radiative Effects, in the Spatial Distribution of Tropical Precipitation. <i>Journal of Climate</i> , 2018, 31, 9489-9505.	1.2	11
63	The role of the permanent wilting point in controlling the spatial distribution of precipitation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5692-5697.	3.3	35
64	Radiative-convective equilibrium model intercomparison project. <i>Geoscientific Model Development</i> , 2018, 11, 793-813.	1.3	127
65	ICON, the Atmosphere Component of the ICON Earth System Model: I. Model Description. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1613-1637.	1.3	123
66	The influence of internal variability on Earth's energy balance framework and implications for estimating climate sensitivity. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 5147-5155.	1.9	40
67	Sensitivity of the summertime tropical Atlantic precipitation distribution to convective parameterization and model resolution in ECHAM6. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2579-2594.	1.2	9
68	Imprint of the convective parameterization and sea-surface temperature on large-scale convective self-aggregation. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 1488-1505.	1.3	54
69	Clouds unfazed by haze. <i>Nature</i> , 2017, 546, 483-484.	13.7	8
70	Preface to the Special Issue "ISSI Workshop on Shallow Clouds and Water Vapor, Circulation and Climate Sensitivity". <i>Surveys in Geophysics</i> , 2017, 38, 1171-1172.	2.1	1
71	Mechanisms and Model Diversity of Trade-Wind Shallow Cumulus Cloud Feedbacks: A Review. <i>Surveys in Geophysics</i> , 2017, 38, 1331-1353.	2.1	48
72	Structure and Dynamical Influence of Water Vapor in the Lower Tropical Troposphere. <i>Surveys in Geophysics</i> , 2017, 38, 1371-1397.	2.1	53

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73	Rediscovery of the doldrums in storm-resolving simulations over the tropical Atlantic. <i>Nature Geoscience</i> , 2017, 10, 891-896.	5.4	76
74	Large-eddy simulations over Germany using ICON: a comprehensive evaluation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 69-100.	1.0	175
75	CMIP5 Scientific Gaps and Recommendations for CMIP6. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 95-105.	1.7	207
76	Fast and slow shifts of the zonal-mean intertropical convergence zone in response to an idealized anthropogenic aerosol. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 870-892.	1.3	33
77	EUREC4A: A Field Campaign to Elucidate the Couplings Between Clouds, Convection and Circulation. <i>Surveys in Geophysics</i> , 2017, 38, 1529-1568.	2.1	132
78	Evaluation of large-eddy simulations forced with mesoscale model output for a multi-week period during a measurement campaign. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7083-7109.	1.9	39
79	Vertical Resolution Refinement in an Aqua-Planet and Its Effect on the ITCZ. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 2425-2436.	1.3	11
80	On the sensitivity of anthropogenic aerosol forcing to model internal variability and parameterizing a Twomey effect. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 1325-1341.	1.3	35
81	MACv2-SP: a parameterization of anthropogenic aerosol optical properties and an associated Twomey effect for use in CMIP6. <i>Geoscientific Model Development</i> , 2017, 10, 433-452.	1.3	130
82	The Cloud Feedback Model Intercomparison Project (CFMIP) contribution to CMIP6. <i>Geoscientific Model Development</i> , 2017, 10, 359-384.	1.3	186
83	Reply to "Comment on 'Rethinking the Lower Bound on Aerosol Radiative Forcing'", <i>Journal of Climate</i> , 2017, 30, 6585-6589.	1.2	4
84	Structure and Dynamical Influence of Water Vapor in the Lower Tropical Troposphere. <i>Space Sciences Series of ISSI</i> , 2017, , 199-225.	0.0	7
85	Easy Volcanic Aerosol (EVA v1.0): an idealized forcing generator for climate simulations. <i>Geoscientific Model Development</i> , 2016, 9, 4049-4070.	1.3	63
86	The Radiative Forcing Model Intercomparison Project (RFMIP): experimental protocol for CMIP6. <i>Geoscientific Model Development</i> , 2016, 9, 3447-3460.	1.3	178
87	Overview of the Coupled Model Intercomparison Project Phase 6 (CMIP6) experimental design and organization. <i>Geoscientific Model Development</i> , 2016, 9, 1937-1958.	1.3	5,303
88	Radiative convective equilibrium as a framework for studying the interaction between convection and its large-scale environment. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 1330-1344.	1.3	28
89	Large-Eddy Simulations of EUCLIPSE: 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
90	Complement and microglia mediate early synapse loss in Alzheimer mouse models. <i>Science</i> , 2016, 352, 712-716.	6.0	2,237



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109	The Influence of Cloud Feedbacks on Equatorial Atlantic Variability. <i>Journal of Climate</i> , 2015, 28, 2725-2744.	1.2	46
110	Evaluating Light Rain from Satellite- and Ground-Based Remote Sensing Data over the Subtropical North Atlantic. <i>Journal of Applied Meteorology and Climatology</i> , 2015, 54, 556-572.	0.6	12
111	On the Seasonal and Synoptic Time-Scale Variability of the North Atlantic Trade Wind Region and Its Low-Level Clouds. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 1428-1446.	0.6	50
112	Missing iris effect as a possible cause of muted hydrological change and high climate sensitivity in models. <i>Nature Geoscience</i> , 2015, 8, 346-351.	5.4	171
113	The Atlantic ITCZ bias in CMIP5 models. <i>Climate Dynamics</i> , 2015, 45, 1169-1180.	1.7	55
114	Rethinking the Lower Bound on Aerosol Radiative Forcing. <i>Journal of Climate</i> , 2015, 28, 4794-4819.	1.2	175
115	Clouds, circulation and climate sensitivity. <i>Nature Geoscience</i> , 2015, 8, 261-268.	5.4	647
116	The Atlantic Multidecadal Oscillation without a role for ocean circulation. <i>Science</i> , 2015, 350, 320-324.	6.0	287
117	On the connection between tropical circulation, convective mixing, and climate sensitivity. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 1404-1416.	1.0	36
118	The diurnal cycle of marine cloud feedback in climate models. <i>Climate Dynamics</i> , 2015, 44, 1419-1436.	1.7	18
119	Using aquaplanets to understand the robust responses of comprehensive climate models to forcing. <i>Climate Dynamics</i> , 2015, 44, 1957-1977.	1.7	79
120	Compensation of Hemispheric Albedo Asymmetries by Shifts of the ITCZ and Tropical Clouds. <i>Journal of Climate</i> , 2014, 27, 1029-1045.	1.2	52
121	Wind Shear and Buoyancy Reversal at the Top of Stratocumulus. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 1040-1057.	0.6	31
122	HAMP – the microwave package on the High Altitude and Long range research aircraft (HALO). <i>Atmospheric Measurement Techniques</i> , 2014, 7, 4539-4553.	1.2	50
123	Climate and climate sensitivity to changing $\text{CO}_2$ on an idealized land planet. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 1205-1223.	1.3	26
124	Climate Model Intercomparisons: Preparing for the Next Phase. <i>Eos</i> , 2014, 95, 77-78.	0.1	129
125	Origins of the Solar Radiation Biases over the Southern Ocean in CFMIP2 Models*. <i>Journal of Climate</i> , 2014, 27, 41-56.	1.2	227
126	The radiative impact of clouds on the shift of the Intertropical Convergence Zone. <i>Geophysical Research Letters</i> , 2014, 41, 4308-4315.	1.5	61



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127	Simulating the Role of Subtropical Stratocumulus Clouds in Driving Pacific Climate Variability. <i>Journal of Climate</i> , 2014, 27, 5119-5131.	1.2	50
128	The distribution and variability of low-level cloud in the North Atlantic trades. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 2364-2374.	1.0	75
129	Study of low-order numerical effects in the two-dimensional cloud-top mixing layer. <i>Theoretical and Computational Fluid Dynamics</i> , 2013, 27, 239-251.	0.9	2
130	Climate feedback efficiency and synergy. <i>Climate Dynamics</i> , 2013, 41, 2539-2554.	1.7	54
131	Assessment of different metrics for physical climate feedbacks. <i>Climate Dynamics</i> , 2013, 41, 1173-1185.	1.7	23
132	Preconditioning Deep Convection with Cumulus Congestus. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 448-464.	0.6	103
133	Reply to "Comments on "Preconditioning Deep Convection with Cumulus Congestus". <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 4155-4156.	0.6	3
134	Time Scales of the Trade Wind Boundary Layer Adjustment. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 1071-1083.	0.6	16
135	The Observed Hemispheric Symmetry in Reflected Shortwave Irradiance. <i>Journal of Climate</i> , 2013, 26, 468-477.	1.2	62
136	Energy budget constraints on climate response. <i>Nature Geoscience</i> , 2013, 6, 415-416.	5.4	270
137	Water in the atmosphere. <i>Physics Today</i> , 2013, 66, 29-34.	0.3	89
138	The Madden-Julian Oscillation in ECHAM6 and the Introduction of an Objective MJO Metric. <i>Journal of Climate</i> , 2013, 26, 3241-3257.	1.2	62
139	Scale Dependency of Total Water Variance and Its Implication for Cloud Parameterizations. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 3615-3630.	0.6	24
140	CHASER: An Innovative Satellite Mission Concept to Measure the Effects of Aerosols on Clouds and Climate. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 685-694.	1.7	15
141	Controls on and impacts of the diurnal cycle of deep convective precipitation. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 801-815.	1.3	22
142	CGILS: Results from the first phase of an international project to understand the physical mechanisms of low cloud feedbacks in single column models. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 826-842.	1.3	140
143	Atmospheric component of the MPI Earth System Model: ECHAM6. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 146-172.	1.3	1,044
144	Paths to accuracy for radiation parameterizations in atmospheric models. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 225-233.	1.3	77

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145	MAC <sup>v1</sup> : A new global aerosol climatology for climate studies. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 704-740.	1.3	198
146	Climate and carbon cycle changes from 1850 to 2100 in MPI <sup>ESM</sup> simulations for the Coupled Model Intercomparison Project phase 5. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 572-597.	1.3	1,280
147	Madden-Julian oscillation as simulated by the MPI Earth System Model: Over the last and into the next millennium. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 71-84.	1.3	25
148	Climate and climate change in a radiative-convective equilibrium version of ECHAM6. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 1-14.	1.3	145
149	What Are Climate Models Missing?. <i>Science</i> , 2013, 340, 1053-1054.	6.0	333
150	The fine-scale structure of the trade wind cumuli over Barbados – an introduction to the CARRIBA project. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 10061-10077.	1.9	61
151	Marine Boundary Layer Cloud Feedbacks in a Constant Relative Humidity Atmosphere. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 2538-2550.	0.6	159
152	The Influence of Wind Speed on Shallow Marine Cumulus Convection. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 168-184.	0.6	50
153	Using the Sensitivity of Large-Eddy Simulations to Evaluate Atmospheric Boundary Layer Models. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 1582-1601.	0.6	30
154	The aerosol effect. <i>Nature</i> , 2012, 490, 40-41.	18.7	29
155	Tuning the climate of a global model. <i>Journal of Advances in Modeling Earth Systems</i> , 2012, 4, .	1.3	334
156	Factors controlling the position of the Intertropical Convergence Zone on an aquaplanet. <i>Journal of Advances in Modeling Earth Systems</i> , 2012, 4, .	1.3	110
157	Observing and Modeling Earth's Energy Flows. <i>Surveys in Geophysics</i> , 2012, 33, 779-816.	2.1	77
158	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
159	Revealing differences in GCM representations of low clouds. <i>Climate Dynamics</i> , 2011, 36, 385-399.	1.7	124
160	Multiscale Asymptotics Analysis for the Mesoscale Dynamics of Cloud-Topped Boundary Layers. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 379-402.	0.6	5
161	On the Factors Modulating the Stratocumulus to Cumulus Transitions. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 1865-1881.	0.6	132
162	On the Fidelity of Large-Eddy Simulation of Shallow Precipitating Cumulus Convection. <i>Monthly Weather Review</i> , 2011, 139, 2918-2939.	0.5	79

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163	Cloud-top entrainment instability?. <i>Journal of Fluid Mechanics</i> , 2010, 660, 1-4.	1.4	18
164	Interpreting the cloud cover “ aerosol optical depth relationship found in satellite data using a general circulation model. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 6129-6135.	1.9	169
165	On the transitions in marine boundary layer cloudiness. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2377-2391.	1.9	83
166	Two-fluid formulation of the cloud-top mixing layer for direct numerical simulation. <i>Theoretical and Computational Fluid Dynamics</i> , 2010, 24, 511-536.	0.9	29
167	Turbulence effects on warm-rain autoconversion in precipitating shallow convection. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 1753-1762.	1.0	54
168	Climate and carbon-cycle variability over the last millennium. <i>Climate of the Past</i> , 2010, 6, 723-737.	1.3	284
169	The Echo Size Distribution of Precipitating Shallow Cumuli. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 788-804.	0.6	18
170	Multiscale Models for Cumulus Cloud Dynamics. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 3269-3285.	0.6	12
171	Microphysical Scaling Relations in a Kinematic Model of Isolated Shallow Cumulus Clouds. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 1575-1590.	0.6	36
172	Probability density functions in the cloud-top mixing layer. <i>New Journal of Physics</i> , 2010, 12, 085010.	1.2	8
173	Effects of Resolution on the Simulation of Boundary-layer Clouds and the Partition of Kinetic Energy to Subgrid Scales. <i>Journal of Advances in Modeling Earth Systems</i> , 2010, 2, .	1.3	36
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