

Brian E Mapes

List of Publications by Year in descending order

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89
papers

5,863
citations

87888

38
h-index

74163

75
g-index

91
all docs

91
docs citations

91
times ranked

3374
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence of Aggregation Dependence of 5-degree Scale Tropical Convective Evolution Using a Gross Moist Stability Framework. <i>Journals of the Atmospheric Sciences</i> , 2022, , .	1.7	1
2	Toward Form-Function Relationships for Mesoscale Structure in Convection. <i>Journal of the Meteorological Society of Japan</i> , 2021, 99, 847-878.	1.8	2
3	Kerala floods in consecutive years - Its association with mesoscale cloudburst and structural changes in monsoon clouds over the west coast of India. <i>Weather and Climate Extremes</i> , 2021, 33, 100339.	4.1	31
4	Space-Time Spectral Analysis of the Moist Static Energy Budget Equation. <i>Journal of Climate</i> , 2019, 32, 501-529.	3.2	24
5	Nonlinear Zonal Propagation of Organized Convection in the Tropics. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 2837-2867.	1.7	1
6	Estimating Convection's Moisture Sensitivity: An Observation-Model Synthesis Using AMIE-DYNAMO Field Data. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 1505-1520.	1.7	4
7	A Mechanism for the Maintenance of Sharp Tropical Margins. <i>Journals of the Atmospheric Sciences</i> , 2019, 77, 1181-1197.	1.7	5
8	A Global Atlas of Tropical Precipitation Extremes. , 2019, , 1-13.		1
9	Cumulus Friction in the Asian Monsoon of a Global Model with 7 km Mesh. <i>Springer Atmospheric Sciences</i> , 2019, , 197-205.	0.3	2
10	Effects of a Simple Convective Organization Scheme in a Two-Plume GCM. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 867-880.	3.8	17
11	The Meandering Margin of the Meteorological Moist Tropics. <i>Geophysical Research Letters</i> , 2018, 45, 1177-1184.	4.0	29
12	The Risks of Contracting the Acquisition and Processing of the Nation's Weather and Climate Data to the Private Sector. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 869-870.	3.3	6
13	Shape of Atlantic Tropical Cyclone Tracks and the Indian Monsoon. <i>Geophysical Research Letters</i> , 2018, 45, 10,746.	4.0	13
14	Global energetics and local physics as drivers of past, present and future monsoons. <i>Nature Geoscience</i> , 2018, 11, 392-400.	12.9	100
15	The late spring Caribbean rainbelt: climatology and dynamics. <i>International Journal of Climatology</i> , 2017, 37, 4981-4993.	3.5	18
16	Importance Profiles for Water Vapor. <i>Surveys in Geophysics</i> , 2017, 38, 1355-1369.	4.6	14
17	Distribution of cloudiness and categorization of rainfall types based on INSAT IR brightness temperatures over Indian subcontinent and adjoining oceanic region during south west monsoon season. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017, 161, 76-82.	1.6	3
18	Relationships between Large Precipitating Systems and Atmospheric Factors at a Grid Scale. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 531-552.	1.7	14

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19	Tangent linear superparameterization of convection in a 10 layer global atmosphere with calibrated climatology. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 932-948.	3.8	5
20	Importance Profiles for Water Vapor. <i>Space Sciences Series of ISSI</i> , 2017, , 183-197.	0.0	2
21	Convectively coupled Kelvin waves in aquachannel simulations: 2. Life cycle and dynamicalâ€œconvective coupling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,319.	3.3	6
22	A Lagrangian View of Moisture Dynamics during DYNAMO. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 1967-1985.	1.7	29
23	The tropical rain belts with an annual cycle and a continent model intercomparison project: TRACMIP. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 1868-1891.	3.8	47
24	February Drying in Southeastern Brazil and the Australian Monsoon: Global Mechanism for a Regional Rainfall Feature. <i>Journal of Climate</i> , 2016, 29, 7529-7546.	3.2	5
25	Informativeness of wind data in linear Maddenâ€œJulian oscillation prediction. <i>Atmospheric Science Letters</i> , 2016, 17, 362-367.	1.9	0
26	Gregarious convection and radiative feedbacks in idealized worlds. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 1029-1033.	3.8	19
27	The climate response of the Indoâ€œPacific warm pool to glacial sea level. <i>Paleoceanography</i> , 2016, 31, 866-894.	3.0	76
28	Vertical structure and physical processes of the Maddenâ€œJulian oscillation: Linking hindcast fidelity to simulated diabatic heating and moistening. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 4690-4717.	3.3	63
29	The skill of atmospheric linear inverse models in hindcasting the Maddenâ€œJulian Oscillation. <i>Climate Dynamics</i> , 2015, 44, 897-906.	3.8	22
30	Springtime ENSO phase evolution and its relation to rainfall in the continental U.S.. <i>Geophysical Research Letters</i> , 2014, 41, 1673-1680.	4.0	39
31	Differences between Faster versus Slower Components of Convectively Coupled Equatorial Waves. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 98-111.	1.7	11
32	Asian Monsoon Forcing of Subtropical Easterlies in the Community Atmosphere Model: Summer Climate Implications for the Western Atlantic. <i>Journal of Climate</i> , 2013, 26, 2741-2755.	3.2	16
33	Differences between More Divergent and More Rotational Types of Convectively Coupled Equatorial Waves. Part II: Composite Analysis based on Spaceâ€œTime Filtering. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 17-34.	1.7	41
34	Diagnosis of Tropical Biases and the MJO from Patterns in the MERRA Analysis Tendency Fields. <i>Journal of Climate</i> , 2012, 25, 6202-6214.	3.2	51
35	Differences between More Divergent and More Rotational Types of Convectively Coupled Equatorial Waves. Part I: Spaceâ€œTime Spectral Analyses. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 3-16.	1.7	60
36	Interpretations of systematic errors in the NCEP Climate Forecast System at lead times of 2, 4, 8, ..., 256 days. <i>Journal of Advances in Modeling Earth Systems</i> , 2012, 4, .	3.8	4

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37	Zonal mean wind, the Indian monsoon, and July drying in the western Atlantic subtropics. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	26
38	Parameterizing Convective Organization to Escape the Entrainment Dilemma. <i>Journal of Advances in Modeling Earth Systems</i> , 2011, 3, n/a-n/a.	3.8	161
39	Clouds Associated with the Madden-Julian Oscillation: A New Perspective from CloudSat. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 3032-3051.	1.7	119
40	Characteristics of 3- and 6-Day Period Disturbances Observed over the Tropical Indian Ocean. <i>Monthly Weather Review</i> , 2010, 138, 4158-4174.	1.4	21
41	Idealized Simulations of the Intertropical Convergence Zone and Its Multilevel Flows. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 4028-4053.	1.7	35
42	Land Surface Heating and the North American Monsoon Anticyclone: Model Evaluation from Diurnal to Seasonal. <i>Journal of Climate</i> , 2010, 23, 4096-4106.	3.2	7
43	Transient Environmental Sensitivities of Explicitly Simulated Tropical Convection. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 923-940.	1.7	64
44	Composite Life Cycle of Maritime Tropical Mesoscale Convective Systems in Scatterometer and Microwave Satellite Observations. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 199-208.	1.7	46
45	Unexpected peak near 15°C in CloudSat echo top climatology. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	28
46	A Simple Atmospheric Model of the Local and Teleconnection Responses to Tropical Heating Anomalies. <i>Journal of Climate</i> , 2009, 22, 272-284.	3.2	111
47	Virtual Field Campaigns on Deep Tropical Convection in Climate Models. <i>Journal of Climate</i> , 2009, 22, 244-257.	3.2	15
48	Predicting the influence of observations on medium-range forecasts of atmospheric flow. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008, 134, 2011-2027.	2.7	16
49	Multiscale Convective Wave Disturbances in the Tropics: Insights from a Two-Dimensional Cloud-Resolving Model. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 140-155.	1.7	76
50	What Are the Sources of Mechanical Damping in Matsuno-Gill-Type Models?. <i>Journal of Climate</i> , 2008, 21, 165-179.	3.2	32
51	North American Monsoon and Convectively Coupled Equatorial Waves Simulated by IPCC AR4 Coupled GCMs. <i>Journal of Climate</i> , 2008, 21, 2919-2937.	3.2	33
52	Subseasonal Variability Associated with Asian Summer Monsoon Simulated by 14 IPCC AR4 Coupled GCMs. <i>Journal of Climate</i> , 2008, 21, 4541-4567.	3.2	116
53	Characteristics of Cloud Size of Deep Convection Simulated by a Global Cloud Resolving Model over the Western Tropical Pacific. <i>Journal of the Meteorological Society of Japan</i> , 2008, 86A, 1-15.	1.8	59
54	Predictability Aspects of Global Aqua-planet Simulations with Explicit Convection. <i>Journal of the Meteorological Society of Japan</i> , 2008, 86A, 175-185.	1.8	40

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55	Cloud Vertical Structure Observed from Space and Ship over the Bay of Bengal and the Eastern Tropical Pacific. <i>Journal of the Meteorological Society of Japan</i> , 2008, 86A, 205-218.	1.8	19
56	Vertical-Mode and Cloud Decomposition of Large-Scale Convectively Coupled Gravity Waves in a Two-Dimensional Cloud-Resolving Model. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 1210-1229.	1.7	95
57	Tropical Intraseasonal Variability in 14 IPCC AR4 Climate Models. Part I: Convective Signals. <i>Journal of Climate</i> , 2006, 19, 2665-2690.	3.2	664
58	The mesoscale convection life cycle: Building block or prototype for large-scale tropical waves?. <i>Dynamics of Atmospheres and Oceans</i> , 2006, 42, 3-29.	1.8	311
59	The Interaction of Clouds and Dry Air in the Eastern Tropical Pacific. <i>Journal of Climate</i> , 2006, 19, 4531-4544.	3.2	29
60	Zonal Momentum Budget of the Madden-Julian Oscillation: The Source and Strength of Equivalent Linear Damping. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 2172-2188.	1.7	65
61	Indian Monsoon Onset and the Americas Midsummer Drought: Out-of-Equilibrium Responses to Smooth Seasonal Forcing. <i>Journal of Climate</i> , 2005, 18, 1109-1115.	3.2	58
62	Doppler Radar Observations of Mesoscale Wind Divergence in Regions of Tropical Convection. <i>Monthly Weather Review</i> , 2005, 133, 1808-1824.	1.4	34
63	Comparison of Cumulus Parameterizations and Entrainment Using Domain-Mean Wind Divergence in a Regional Model. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 1284-1295.	1.7	16
64	Wind shear effects on cloud-radiation feedback in the western Pacific warm pool. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	17
65	Effect of Vertical Dipole Temperature Anomalies on Convection in a Cloud Model. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 2092-2100.	1.7	3
66	Radiation Budget of the Tropical Intraseasonal Oscillation. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 2050-2062.	1.7	74
67	Stratiform Precipitation, Vertical Heating Profiles, and the Madden-Julian Oscillation. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 296-309.	1.7	210
68	Sensitivities of Cumulus-Ensemble Rainfall in a Cloud-Resolving Model with Parameterized Large-Scale Dynamics. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 2308-2317.	1.7	28
69	Bimodality in tropical water vapour. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2003, 129, 2847-2866.	2.7	113
70	Diurnal Patterns of Rainfall in Northwestern South America. Part II: Model Simulations. <i>Monthly Weather Review</i> , 2003, 131, 813-829.	1.4	70
71	Diurnal Patterns of Rainfall in Northwestern South America. Part III: Diurnal Gravity Waves and Nocturnal Convection Offshore. <i>Monthly Weather Review</i> , 2003, 131, 830-844.	1.4	243
72	Diurnal Patterns of Rainfall in Northwestern South America. Part I: Observations and Context. <i>Monthly Weather Review</i> , 2003, 131, 799-812.	1.4	140

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73	Sampling Errors in Rawinsonde-Array Budgets. <i>Journals of the Atmospheric Sciences</i> , 2003, 60, 2697-2714.	1.7	44
74	Impacts of Cumulus Convection Parameterization on Aqua-planet AGCM Simulations of Tropical Intraseasonal Variability. <i>Journal of the Meteorological Society of Japan</i> , 2003, 81, 963-992.	1.8	86
75	Influence of cloud-radiation interaction on simulating tropical intraseasonal oscillation with an atmospheric general circulation model. <i>Journal of Geophysical Research</i> , 2001, 106, 14219-14233.	3.3	94
76	NOTES AND CORRESPONDENCE Convective Eddy Momentum Tendencies in Long Cloud-Resolving Model Simulations. <i>Journals of the Atmospheric Sciences</i> , 2001, 58, 517-526.	1.7	30
77	Water's two height scales: The moist adiabat and the radiative troposphere. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2001, 127, 2353-2366.	2.7	72
78	Mesoscale Processes and Severe Convective Weather. , 2001, , 71-122.		19
79	Convective Inhibition, Subgrid-Scale Triggering Energy, and Stratiform Instability in a Toy Tropical Wave Model. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 1515-1535.	1.7	330
80	Asymptotic approaches to convective quasi-equilibrium. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2000, 126, 1861-1887.	2.7	6
81	The Large-Scale Part of Tropical Mesoscale Convective System Circulations. <i>Journal of the Meteorological Society of Japan</i> , 1998, 76, 29-55.	1.8	55
82	Equilibrium Vs. Activation Control of Large-Scale Variations of Tropical Deep Convection. , 1997, , 321-358.		44
83	Mutual Adjustment of Mass Flux and Stratification Profiles. , 1997, , 399-411.		7
84	Multiscale Variability of Deep Convection In Relation to Large-Scale Circulation in TOGA COARE. <i>Journals of the Atmospheric Sciences</i> , 1996, 53, 1380-1409.	1.7	340
85	Diabatic Divergence Profiles in Western Pacific Mesoscale Convective Systems. <i>Journals of the Atmospheric Sciences</i> , 1995, 52, 1807-1828.	1.7	312
86	An integrated view of the 1987 Australian monsoon and its mesoscale convective systems. II: Vertical structure. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1993, 119, 733-754.	2.7	24
87	Gregarious Tropical Convection. <i>Journals of the Atmospheric Sciences</i> , 1993, 50, 2026-2037.	1.7	334
88	An Integrated View of the 1987 Australian Monsoon and Its Mesoscale Convective Systems. I: Horizontal Structure. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1992, 118, 927-963.	2.7	91
89	Idealized simulations of the tropical climate and variability in the Single Column Atmosphere Model (SCAM). Part I: Radiative-convective equilibrium. <i>Journal of Advances in Modeling Earth Systems</i> , 0, , .	3.8	0