Mitchell W Moncrieff

List of Publications by Year
in descending order

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88 papers	4,029 citations	109321 35 h-index	123424 61 g-index
88 all docs	88 docs citations	88 times ranked	2138 citing authors

#	Article	IF	Citations
1	Multicell stage of the Munich storm of 12 July 1984: a numerical study. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 44, 339.	1.7	4
2	Systematic Patterns in Land Precipitation Due to Convection in Neighboring Islands in the Maritime Continent During MJO Propagation. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033465.	3.3	8
3	Improved Simulation of Midlatitude Climate in a New Channel Model Compared to Contemporary Global Climate Models. Geophysical Research Letters, 2021, 48, e2021GL093297.	4.0	1
4	Role of topography on the MJO in the maritime continent: a numerical case study. Climate Dynamics, 2020, 55, 295-314.	3.8	24
5	Quasi-stationary extreme rain produced by mesoscale convective system on the Mei-Yu front. Meteorology and Atmospheric Physics, 2020, 132, 721-742.	2.0	4
6	Shearâ€Parallel Tropical Convective Systems: Importance of Cold Pools and Wind Shear. Geophysical Research Letters, 2020, 47, e2020GL087720.	4.0	12
7	Upscale Impact of Mesoscale Convective Systems and Its Parameterization in an Idealized GCM for an MJO Analog above the Equator. Journals of the Atmospheric Sciences, 2019, 76, 865-892.	1.7	17
8	Toward a Dynamical Foundation for Organized Convection Parameterization in GCMs. Geophysical Research Letters, 2019, 46, 14103-14108.	4.0	31
9	Convective Organization in Evolving Large-Scale Forcing Represented by a Highly Truncated Numerical Archetype. Journals of the Atmospheric Sciences, 2018, 75, 2827-2847.	1.7	2
10	Simulation, Modeling, and Dynamically Based Parameterization of Organized Tropical Convection for Global Climate Models. Journals of the Atmospheric Sciences, 2017, 74, 1363-1380.	1.7	82
11	Shear-Parallel Mesoscale Convective Systems in a Moist Low-Inhibition Mei-Yu Front Environment. Journals of the Atmospheric Sciences, 2017, 74, 4213-4228.	1.7	16
12	Insights into convective momentum transport and its parametrization from idealized simulations of organized convection. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 2687-2702.	2.7	10
13	Numerical Archetypal Parameterization for Mesoscale Convective Systems. Journals of the Atmospheric Sciences, 2016, 73, 2585-2602.	1.7	9
14	Long-Lived Mesoscale Systems in a Lowâ€“Convective Inhibition Environment. Part II: Downshear Propagation. Journals of the Atmospheric Sciences, 2015, 72, 4319-4336.	1.7	14
15	A Momentum Budget Analysis of Westerly Wind Events Associated with the Maddenâ€“Julian Oscillation during DYNAMO. Journals of the Atmospheric Sciences, 2015, 72, 3780-3799.	1.7	13
16	Convective Momentum Transport Associated with the Maddenâ€“Julian Oscillation Based on a Reanalysis Dataset. Journal of Climate, 2015, 28, 5763-5782.	3.2	6
17	Organized Convection Parameterization for the ITCZ*. Journals of the Atmospheric Sciences, 2015, 72, 3073-3096.	1.7	28
18	Long-Lived Mesoscale Systems in a Lowâ€“Convective Inhibition Environment. Part I: Upshear Propagation. Journals of the Atmospheric Sciences, 2015, 72, 4297-4318.	1.7	23

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19	Cracking the MJO nut. Geophysical Research Letters, 2013, 40, 1223-1230.	4.0	154
20	Convective Momentum Transport by Rainbands within a Maddenâ€"Julian Oscillation in a Global Nonhydrostatic Model with Explicit Deep Convective Processes. Part I: Methodology and General Results. Journals of the Atmospheric Sciences, 2012, 69, 1317-1338.	1.7	42
21	The â€œYearâ€• of Tropical Convection (May 2008â€"April 2010): Climate Variability and Weather Highlights. Bulletin of the American Meteorological Society, 2012, 93, 1189-1218.	3.3	164
22	Multiscale Convective Organization and the YOTC Virtual Global Field Campaign. Bulletin of the American Meteorological Society, 2012, 93, 1171-1187.	3.3	105
23	Progress and direction in tropical convection research: YOTC International Science Symposium. Bulletin of the American Meteorological Society, 2012, 93, ES65-ES69.	3.3	10
24	Effects of Dimensionality on Simulated Large-Scale Convective Organization and Coupled Waves. Journal of the Meteorological Society of Japan, 2012, 90, 59-78.	1.8	2
25	Orogenic Propagating Precipitation Systems over the United States in a Global Climate Model with Embedded Explicit Convection. Journals of the Atmospheric Sciences, 2011, 68, 1821-1840.	1.7	88
26	Role of the atmospheric mean state on the initiation of the Madden-Julian oscillation in a tropical channel model. Climate Dynamics, 2011, 36, 161-184.	3.8	49
27	The multiscale organization of moist convection and the intersection of weather and climate. Geophysical Monograph Series, 2010, , 3-26.	0.1	62
28	Comparison of two land surface schemes in week-long cloud-system-resolving simulations of warm season precipitation. Meteorology and Atmospheric Physics, 2010, 107, 9-15.	2.0	1
29	Characterization of Momentum Transport Associated with Organized Moist Convection and Gravity Waves. Journals of the Atmospheric Sciences, 2010, 67, 3208-3225.	1.7	36
30	Multiscale cloud system modeling. Reviews of Geophysics, 2009, 47, .	23.0	73
31	A note on propagating rainfall episodes over the Bay of Bengal. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 787-792.	2.7	22
32	Explicitly simulated tropical convection over idealized warm pools. Journal of Geophysical Research, 2008, 113, .	3.3	12
33	Stratospheric Gravity Waves Generated by Multiscale Tropical Convection. Journals of the Atmospheric Sciences, 2008, 65, 2598-2614.	1.7	42
34	Sensitivity of Cloud-Resolving Simulations of Warm-Season Convection to Cloud Microphysics Parameterizations. Monthly Weather Review, 2007, 135, 2854-2868.	1.4	61
35	Meridional Momentum Flux and Superrotation in the Multiscale IPESD MJO Model. Journals of the Atmospheric Sciences, 2007, 64, 1636-1651.	1.7	51
36	Simulation of intense organized convective precipitation observed during the Arabian Sea Monsoon Experiment (ARMEX). Journal of Geophysical Research, 2007, 112, .	3.3	12

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37	Representing Convective Organization in Prediction Models by a Hybrid Strategy. Journals of the Atmospheric Sciences, 2006, 63, 3404-3420.	1.7	73
38	Multiscale Temporal Variability of Warm-Season Precipitation over North America: Statistical Analysis of Radar Measurements. Journals of the Atmospheric Sciences, 2006, 63, 2355-2368.	1.7	18
39	Explicit and parameterized episodes of warm-season precipitation over the continental United States. Advances in Atmospheric Sciences, 2006, 23, 91-105.	4.3	29
40	Explicit Convection over the Western Pacific Warm Pool in the Community Atmospheric Model. Journal of Climate, 2005, 18, 1482-1502.	3.2	8
41	Explicit Simulations of the Intertropical Convergence Zone. Journals of the Atmospheric Sciences, 2004, 61, 458-473.	1.7	8
42	A Systemic Analysis of Multiscale Deep Convective Variability over the Tropical Pacific. Journal of Climate, 2004, 17, 2736-2751.	3.2	11
43	Analytic Representation of the Large-Scale Organization of Tropical Convection. Journals of the Atmospheric Sciences, 2004, 61, 1521-1538.	1.7	118
44	Effects of Convectively Generated Gravity Waves and Rotation on the Organization of Convection. Journals of the Atmospheric Sciences, 2004, 61, 2218-2227.	1.7	43
45	Walker-Type Mean Circulations and Convectively Coupled Tropical Waves as an Interacting System. Journals of the Atmospheric Sciences, 2002, 59, 1566-1577.	1.7	8
46	Mean-State Convective Circulations over Large-Scale Tropical SST Gradients. Journals of the Atmospheric Sciences, 2002, 59, 1578-1592.	1.7	16
47	Large-scale organization of tropical convection in two-dimensional explicit numerical simulations: Effects of interactive radiation. Quarterly Journal of the Royal Meteorological Society, 2002, 128, 2349-2375.	2.7	32
48	Cumulus Ensembles in Shear: Implications for Parameterization. Journals of the Atmospheric Sciences, 2001, 58, 2832-2842.	1.7	22
49	Sensitivity of Single-Column Model Solutions to Convective Parameterizations and Initial Conditions. Journal of Climate, 2001, 14, 2563-2582.	3.2	7
50	Wavelet Analysis of Simulated Tropical Convective Cloud Systems. Part I: Basic Analysis. Journals of the Atmospheric Sciences, 2001, 58, 850-867.	1.7	24
51	Wavelet Analysis of Simulated Tropical Convective Cloud Systems. Part II: Decomposition of Convective-Scale and Mesoscale Structure. Journals of the Atmospheric Sciences, 2001, 58, 868-876.	1.7	20
52	Explicit and Parameterized Realizations of Convective Cloud Systems in TOGA COARE. Monthly Weather Review, 2001, 129, 1689-1703.	1.4	29
53	Large-scale organization of tropical convection in two-dimensional explicit numerical simulations. Quarterly Journal of the Royal Meteorological Society, 2001, 127, 445-468.	2.7	137
54	Hierarchical modelling of tropical convective systems using explicit and parametrized approaches. Quarterly Journal of the Royal Meteorological Society, 2001, 127, 493-515.	2.7	24

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55	Long-Term Behavior of Cloud Systems in TOGA COARE and Their Interactions with Radiative and Surface Processes. Part III: Effects on the Energy Budget and SST. Journals of the Atmospheric Sciences, 2001, 58, 1155-1168.	1.7	36
56	Evaluation of Large-Scale Forcing during TOGA COARE for Cloud-Resolving Models and Single-Column Models. Journals of the Atmospheric Sciences, 2000, 57, 2977-2985.	1.7	14
57	Simulated Density Currents in Idealized Stratified Environments. Monthly Weather Review, 2000, 128, 1420-1437.	1.4	33
58	Parameterization of Convective Momentum Transport in Highly Baroclinic Conditions. Journals of the Atmospheric Sciences, 2000, 57, 3035-3049.	1.7	11
59	Cloud Resolving Modeling of Tropical Circulations Driven by Large-Scale SST Gradients. Journals of the Atmospheric Sciences, 2000, 57, 2022-2040.	1.7	66
60	Effects of sea surface temperature and large-scale dynamics on the thermodynamic equilibrium state and convection over the tropical western Pacific. Journal of Geophysical Research, 1999, 104, 6093-6100.	3.3	22
61	Cloud Resolving Modeling of Tropical Cloud Systems during Phase III of GATE. Part III: Effects of Cloud Microphysics. Journals of the Atmospheric Sciences, 1999, 56, 2384-2402.	1.7	63
62	Long-Term Behavior of Cloud Systems in TOGA COARE and Their Interactions with Radiative and Surface Processes. Part II: Effects of Ice Microphysics on Cloudâ€"Radiation Interaction. Journals of the Atmospheric Sciences, 1999, 56, 3177-3195.	1.7	85
63	Convection Initiation by Density Currents: Role of Convergence, Shear, and Dynamical Organization. Monthly Weather Review, 1999, 127, 2455-2464.	1.4	106
64	Linear stability and single-column analyses of several cumulus parametrization categories in a shallow-water model. Quarterly Journal of the Royal Meteorological Society, 1998, 124, 983-1005.	2.7	27
65	A Numerical Study of the Diurnal Cycle of Tropical Oceanic Convection. Journals of the Atmospheric Sciences, 1998, 55, 2329-2344.	1.7	91
66	Long-Term Behavior of Cloud Systems in TOGA COARE and Their Interactions with Radiative and Surface Processes. Part I: Two-Dimensional Modeling Study. Journals of the Atmospheric Sciences, 1998, 55, 2693-2714.	1.7	130
67	Cloud-Resolving Modeling of Cloud Systems during Phase III of GATE. Part II: Effects of Resolution and the Third Spatial Dimension. Journals of the Atmospheric Sciences, 1998, 55, 3264-3282.	1.7	189
68	Impact of Mesoscale Momentum Transport on Large-Scale Tropical Dynamics: Linear Analysis of the Shallow-Water Analog. Journals of the Atmospheric Sciences, 1998, 55, 1038-1050.	1.7	5
69	GEWEX Cloud System Study (GCSS) Working Group 4: Precipitating Convective Cloud Systems. Bulletin of the American Meteorological Society, 1997, 78, 831-845.	3.3	97
70	Dynamical Influence of Microphysics in Tropical Squall Lines: A Numerical Study. Monthly Weather Review, 1997, 125, 2193-2210.	1.4	54
71	Organized convective systems in the tropical western pacific as a process in general circulation models: A toga coare case-study. Quarterly Journal of the Royal Meteorological Society, 1997, 123, 805-827.	2.7	127
72	Momentum Transport by Organized Convection. , 1997, , 231-253.		6

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73	Cloud-Resolving Modeling of Tropical Cloud Systems during Phase III of GATE. Part I: Two-Dimensional Experiments. Journals of the Atmospheric Sciences, 1996, 53, 3684-3709.	1.7	219
74	Collective Effects of Organized Convection and Their Approximation in General Circulation Models. Journals of the Atmospheric Sciences, 1996, 53, 1477-1495.	1.7	39
75	A Numerical Study of the Effects of Ambient Flow and Shear On Density Currents. Monthly Weather Review, 1996, 124, 2282-2303.	1.4	74
76	An Analytical Study of Density Currents in Sheared, Stratified Fluids Including the Effects of Latent Heating. Journals of the Atmospheric Sciences, 1996, 53, 3303-3312.	1.7	16
77	Fractality in Idealized Simulations of Large-Scale Tropical Cloud Systems. Monthly Weather Review, 1996, 124, 838-848.	1.4	12
78	Long-term behaviour of precipitating tropical cloud systems: A numerical study. Quarterly Journal of the Royal Meteorological Society, 1996, 122, 1019-1042.	2.7	41
79	Mass and Momentum Transports by Organized Convection: Effects of Shear and Buoyancy. Journals of the Atmospheric Sciences, 1996, 53, 964-979.	1.7	7
80	Hierarchical Tropical Cloud Systems in an Analog Shallow-Water Model. Journals of the Atmospheric Sciences, 1995, 52, 1723-1742.	1.7	50
81	Momentum and Mass Transport by Convective Bands: Comparisons of Highly Idealized Dynamical Models to Observations. Journals of the Atmospheric Sciences, 1994, 51, 281-305.	1.7	62
82	Organized Convective Systems: Archetypal Dynamical Models, Mass and Momentum Flux Theory, and Parametrization. Quarterly Journal of the Royal Meteorological Society, 1992, 118, 819-850.	2.7	222
83	Mesoscale Momentum Budget in a Midlatitude Squall Line: A Numerical Case Study. Monthly Weather Review, 1990, 118, 1011-1028.	1.4	15
84	Analytical Models of Narrow Cold-Frontal Rainbands and Related Phenomena. Journals of the Atmospheric Sciences, 1989, 46, 150-162.	1.7	12
85	A Three-Dimensional Numerical Study of an Oklahoma Squall Line Containing Right-Flank Supercells. Journals of the Atmospheric Sciences, 1989, 46, 3363-3391.	1.7	31
86	A comparison of explicit and implicit predictions of convective and stratiform precipitating weather systems with a mesoâ€Î²â€scale numerical model. Quarterly Journal of the Royal Meteorological Society, 1988, 114, 31-60.	2.7	43
87	The Effect of Large-Scale Convergence on the Generation and Maintenance of Deep Moist Convection. Journals of the Atmospheric Sciences, 1988, 45, 3606-3624.	1.7	90
88	A comparison of explicit and implicit predictions of convective and stratiform precipitating weather systems with a meso-<I>Î²</I>-scale numericalmodel. Quarterly Journal of the Royal Meteorological Society, 1988, 114, 31-60.	2.7	17