Martin Simran Singh

List of Publications by Year
in descending order

27	738	623734 14	526287 27
papers	citations	h-index	g-index

29	29	29	779
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of entrainment on the thermal stratification in simulations of radiativeâ€convective equilibrium. Geophysical Research Letters, 2013, 40, 4398-4403.	4.0	110
2	Influence of microphysics on the scaling of precipitation extremes with temperature. Geophysical Research Letters, 2014, 41, 6037-6044.	4.0	86
3	Clouds and Convective Selfâ€Aggregation in a Multimodel Ensemble of Radiativeâ€Convective Equilibrium Simulations. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002138.	3.8	86
4	Increases in moistâ€convective updraught velocities with warming in radiativeâ€convective equilibrium. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2828-2838.	2.7	56
5	Extratropical Cyclones in Idealized Simulations of Changed Climates. Journal of Climate, 2015, 28, 9373-9392.	3.2	55
6	Increasing potential for intense tropical and subtropical thunderstorms under global warming. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11657-11662.	7.1	51
7	Radiative Convective Equilibrium and Organized Convection: An Observational Perspective. Journal of Geophysical Research D: Atmospheres, 2019, 124, 5418-5430.	3.3	40
8	A singleâ€column model ensemble approach applied to the TWPâ€ICE experiment. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6544-6563.	3.3	33
9	A Steadyâ€State Model for the Relationship Between Humidity, Instability, and Precipitation in the Tropics. Journal of Advances in Modeling Earth Systems, 2019, 11, 3973-3994.	3.8	23
10	Eddy Influences on the Strength of the Hadley Circulation: Dynamic and Thermodynamic Perspectives. Journals of the Atmospheric Sciences, 2017, 74, 467-486.	1.7	21
11	Limits on the Extent of the Solsticial Hadley Cell: The Role of Planetary Rotation. Journals of the Atmospheric Sciences, 2019, 76, 1989-2004.	1.7	20
12	Convective Precipitation Efficiency Observed in the Tropics. Geophysical Research Letters, 2019, 46, 13574-13583.	4.0	20
13	Increase in the skewness of extratropical vertical velocities with climate warming: fully nonlinear simulations versus moist baroclinic instability. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 208-217.	2.7	17
14	A joint role for forced and internally-driven variability in the decadal modulation of global warming. Nature Communications, 2020, 11, 3827.	12.8	15
15	Assessing Convective Organization in Tropical Radar Observations. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031801.	3.3	15
16	Response of Tropical Cyclone Formation and Intensification Rates to Climate Warming in Idealized Simulations. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002086.	3.8	14
17	The climate system and the second law of thermodynamics. Reviews of Modern Physics, 2022, 94, .	45.6	14
18	The Relative Humidity in an Isentropic Advectionâ€“Condensation Model: Limited Poleward Influence and Properties of Subtropical Minima. Journals of the Atmospheric Sciences, 2011, 68, 3079-3093.	1.7	13

#	Article	IF	Citations
19	Scaling of the entropy budget with surface temperature in radiativeâ€convective equilibrium. Journal of Advances in Modeling Earth Systems, 2016, 8, 1132-1150.	3.8	11
20	A Moist Entropy Budget View of the South Asian Summer Monsoon Onset. Geophysical Research Letters, 2019, 46, 4476-4484.	4.0	9
21	Revisiting ENSO and IOD Contributions to Australian Precipitation. Geophysical Research Letters, 2022, 49, .	4.0	9
22	The Vertical Momentum Budget of Shallow Cumulus Convection: Insights From a Lagrangian Perspective. Journal of Advances in Modeling Earth Systems, 2019, 11, 113-126.	3.8	6
23	Simulations of Radiativeâ€Convectiveâ€Dynamical Equilibrium. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001734.	3.8	4
24	Identifying Relations Between Deep Convection and the Largeâ€Scale Atmosphere Using Explainable Artificial Intelligence. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	4
25	On the Interaction between Moist Convection and Large-Scale Ascent in the Tropics. Journal of Climate, 2022, 35, 4417-4435.	3.2	3
26	Increased Largeâ€Scale Convective Aggregation in CMIP5 Projections: Implications for Tropical Precipitation Extremes. Geophysical Research Letters, 2022, 49, .	4.0	2
27	Future Community Efforts in Understanding and Modeling Atmospheric Processes. Bulletin of the American Meteorological Society, 2018, 99, ES159-ES162.	3.3	1