Robert A Houze Jr

List of Publications by Year
in descending order

38	7,621	147801 31	315739 38
papers	citations	h-index	g-index

38	38	38	3687
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Using radar observations to evaluate 3-D radar echo structure simulated by the Energy Exascale Earth System Model (E3SM) versionÂ1. Geoscientific Model Development, 2021, 14, 719-734.	3.6	5
2	A Global Highâ€Resolution Mesoscale Convective System Database Using Satelliteâ€Derived Cloud Tops, Surface Precipitation, and Tracking. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034202.	3.3	88
3	Contrasting Spring and Summer Large-Scale Environments Associated with Mesoscale Convective Systems over the U.S. Great Plains. Journal of Climate, 2019, 32, 6749-6767.	3.2	64
4	Spatiotemporal Characteristics and Large-Scale Environments of Mesoscale Convective Systems East of the Rocky Mountains. Journal of Climate, 2019, 32, 7303-7328.	3.2	91
5	Extreme Convective Storms Over Highâ€Latitude Continental Areas Where Maximum Warming Is Occurring. Geophysical Research Letters, 2019, 46, 4059-4065.	4.0	21
6	The Diurnal and Microphysical Characteristics of MJO Rain Events during DYNAMO. Journals of the Atmospheric Sciences, 2019, 2019, 67-80.	1.7	6
7	The Characteristics of Tropical and Midlatitude Mesoscale Convective Systems as Revealed by Radar Wind Profilers. Journal of Geophysical Research D: Atmospheres, 2019, 124, 4601-4619.	3.3	25
8	A Stochastic Framework for Modeling the Population Dynamics of Convective Clouds. Journal of Advances in Modeling Earth Systems, 2018, 10, 448-465.	3.8	19
9	Structure and Evolution of Mesoscale Convective Systems: Sensitivity to Cloud Microphysics in Convectionâ€Permitting Simulations Over the United States. Journal of Advances in Modeling Earth Systems, 2018, 10, 1470-1494.	3.8	145
10	100 Years of Research on Mesoscale Convective Systems. Meteorological Monographs, 2018, 59, 17.1-17.54.	5.0	112
11	Environments of Longâ€Lived Mesoscale Convective Systems Over the Central United States in Convection Permitting Climate Simulations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 13,288.	3.3	54
12	More frequent intense and long-lived storms dominate the springtime trend in central US rainfall. Nature Communications, 2016, 7, 13429.	12.8	191
13	The variable nature of convection in the tropics and subtropics: A legacy of 16â€‰years of the Tropical Rainfall Measuring Mission satellite. Reviews of Geophysics, 2015, 53, 994-1021.	23.0	265
14	Latent heating characteristics of the MJO computed from TRMM Observations. Journal of Geophysical Research D: Atmospheres, 2015, 120, 1322-1334.	3.3	26
15	Variation of Lightning and Convective Rain Fraction in Mesoscale Convective Systems of the MJO. Journals of the Atmospheric Sciences, 2015, 72, 1932-1944.	1.7	29
16	Evolution of the Population of Precipitating Convective Systems over the Equatorial Indian Ocean in Active Phases of the Maddenâ€“Julian Oscillation. Journals of the Atmospheric Sciences, 2013, 70, 2713-2725.	1.7	100
17	Comparison of Simulated and Observed Continental Tropical Anvil Clouds and Their Radiative Heating Profiles. Journals of the Atmospheric Sciences, 2012, 69, 2662-2681.	1.7	34
18	Global Variability of Mesoscale Convective System Anvil Structure from A-Train Satellite Data. Journal of Climate, 2010, 23, 5864-5888.	3.2	132

#	Article	IF	Citations
19	Monsoon convection in the Himalayan region as seen by the TRMM Precipitation Radar. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 1389-1411.	2.7	246
20	Mesoscale convective systems. Reviews of Geophysics, 2004, 42, .	23.0	953
21	The Tropical Dynamical Response to Latent Heating Estimates Derived from the TRMM Precipitation Radar. Journals of the Atmospheric Sciences, 2004, 61, 1341-1358.	1.7	326
22	Stratiform Rain in the Tropics as Seen by the TRMM Precipitation Radar*. Journal of Climate, 2003, 16, 1739-1756.	3.2	416
23	Climatological Characterization of Three-Dimensional Storm Structure from Operational Radar and Rain Gauge Data. Journal of Applied Meteorology and Climatology, 1995, 34, 1978-2007.	1.7	753
24	Three-Dimensional Kinematic and Microphysical Evolution of Florida Cumulonimbus. Part II: Frequency Distributions of Vertical Velocity, Reflectivity, and Differential Reflectivity. Monthly Weather Review, 1995, 123, 1941-1963.	1.4	514
25	Mesoscale Organization of Springtime Rainstorms in Oklahoma. Monthly Weather Review, 1990, 118, 613-654.	1.4	281
26	Interpretation of Doppler Weather Radar Displays of Midlatitude Mesoscale Convective Systems. Bulletin of the American Meteorological Society, 1989, 70, 608-619.	3.3	318
27	Observed structure of mesoscale convective systems and implications for large-scale heating. Quarterly Journal of the Royal Meteorological Society, 1989, 115, 425-461.	2.7	367
28	A Diagnostic Modelling Study of the Trailing Stratiform Region of a Midlatitude Squall Line. Journals of the Atmospheric Sciences, 1987, 44, 2640-2656.	1.7	101
29	Rear Inflow in Squall Lines with Trailing Stratiform Precipitation. Monthly Weather Review, 1987, 115, 2869-2889.	1.4	180
30	Further Analysis of the Composite Wind and Thermodynamic Structure of the 12 September GATE Squall Line. Monthly Weather Review, 1985, 113, 1241-1260.	1.4	46
31	Some Implications of the Mesoscale Circulations in Tropical Cloud Clusters for Large-Scale Dynamics and Climate. Journals of the Atmospheric Sciences, 1984, 41, 113-121.	1.7	271
32	Mesoscale Air Motions Associated with a Tropical Squall Line. Monthly Weather Review, 1982, 110, 118-135.	1.4	175
33	Convection in GATE. Reviews of Geophysics, 1981, 19, 541-576.	23.0	345
34	Diagnosis of Cloud Mass and Heat Fluxes from Radar and Synoptic Data. Journals of the Atmospheric Sciences, 1980, 37, 754-773.	1.7	44
35	The Structure and Evolution of Convection in a Tropical Cloud Cluster. Journals of the Atmospheric Sciences, 1979, 36, 437-457.	1.7	223
36	The Distribution of Convective and Mesoscale Precipitation in GATE Radar Echo Patterns. Monthly Weather Review, 1979, 107, 1370-1381.	1.4	76

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37	Radar Characteristics of Tropical Convection Observed During GATE: Mean Properties and Trends Over the Summer Season. Monthly Weather Review, 1977, 105, 964-980.	1.4	168
38	Structure and Dynamics of a Tropical Squallâ€“Line System. Monthly Weather Review, 1977, 105, 1540-1567.	1.4	411