Robert A Houze Jr

List of Publications by Citations

38 papers	5,959 citations	30 h-index	38 g-index
38 ext. papers	6,615 ext. citations	5.5 avg, IF	6.06 L-index

#	Paper	IF	Citations
38	Mesoscale convective systems. *Reviews of Geophysics*, **2004**, 42,	23.1	745
37	Climatological Characterization of Three-Dimensional Storm Structure from Operational Radar and Rain Gauge Data. *Journal of Applied Meteorology and Climatology*, **1995**, 34, 1978-2007		606
36	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	2.4	442
35	Stratiform Rain in the Tropics as Seen by the TRMM Precipitation Radar*. *Journal of Climate*, **2003**, 16, 1739-1756	4.4	371
34	Structure and Dynamics of a Tropical Squall□ine System. *Monthly Weather Review*, **1977**, 105, 1540-1567	2.4	340
33	Observed structure of mesoscale convective systems and implications for large-scale heating. *Quarterly Journal of the Royal Meteorological Society*, **1989**, 115, 425-461	6.4	331
32	Convection in GATE. *Reviews of Geophysics*, **1981**, 19, 541	23.1	275
31	The Tropical Dynamical Response to Latent Heating Estimates Derived from the TRMM Precipitation Radar. *Journals of the Atmospheric Sciences*, **2004**, 61, 1341-1358	2.1	261
30	Interpretation of Doppler Weather Radar Displays of Midlatitude Mesoscale Convective Systems. *Bulletin of the American Meteorological Society*, **1989**, 70, 608-619	6.1	253
29	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	2.1	237
28	Mesoscale Organization of Springtime Rainstorms in Oklahoma. *Monthly Weather Review*, **1990**, 118, 613-654	2.4	212
27	The variable nature of convection in the tropics and subtropics: A legacy of 16 years of the Tropical Rainfall Measuring Mission satellite. *Reviews of Geophysics*, **2015**, 53, 994-1021	23.1	186
26	Monsoon convection in the Himalayan region as seen by the TRMM Precipitation Radar. *Quarterly Journal of the Royal Meteorological Society*, **2007**, 133, 1389	6.4	182
25	The Structure and Evolution of Convection in a Tropical Cloud Cluster. *Journals of the Atmospheric Sciences*, **1979**, 36, 437-457	2.1	179
24	Rear Inflow in Squall Lines with Trailing Stratiform Precipitation. *Monthly Weather Review*, **1987**, 115, 2869-2889	2.4	152
23	Mesoscale Air Motions Associated with a Tropical Squall Line. *Monthly Weather Review*, **1982**, 110, 118-135	2.4	145
22	Radar Characteristics of Tropical Convection Observed During GATE: Mean Properties and Trends Over the Summer Season. *Monthly Weather Review*, **1977**, 105, 964-980	2.4	139

21	More frequent intense and long-lived storms dominate the springtime trend in central US rainfall. *Nature Communications*, **2016**, 7, 13429	17.4	114
20	Global Variability of Mesoscale Convective System Anvil Structure from A-Train Satellite Data. *Journal of Climate*, **2010**, 23, 5864-5888	4.4	99
19	Structure and Evolution of Mesoscale Convective Systems: Sensitivity to Cloud Microphysics in Convection-Permitting Simulations Over the United States. *Journal of Advances in Modeling Earth Systems*, **2018**, 10, 1470-1494	7.1	86
18	Evolution of the Population of Precipitating Convective Systems over the Equatorial Indian Ocean in Active Phases of the Madden□ulian Oscillation. *Journals of the Atmospheric Sciences*, **2013**, 70, 2713-2725	2.1	81
17	A Diagnostic Modelling Study of the Trailing Stratiform Region of a Midlatitude Squall Line. *Journals of the Atmospheric Sciences*, **1987**, 44, 2640-2656	2.1	81
16	The Distribution of Convective and Mesoscale Precipitation in GATE Radar Echo Patterns. *Monthly Weather Review*, **1979**, 107, 1370-1381	2.4	61
15	100 Years of Research on Mesoscale Convective Systems. *Meteorological Monographs*, **2018**, 59, 17.1-17.54	3.7	56
14	Spatiotemporal Characteristics and Large-Scale Environments of Mesoscale Convective Systems East of the Rocky Mountains. *Journal of Climate*, **2019**, 32, 7303-7328	4.4	47
13	Diagnosis of Cloud Mass and Heat Fluxes from Radar and Synoptic Data. *Journals of the Atmospheric Sciences*, **1980**, 37, 754-773	2.1	39
12	Further Analysis of the Composite Wind and Thermodynamic Structure of the 12 September GATE Squall Line. *Monthly Weather Review*, **1985**, 113, 1241-1260	2.4	37
11	Environments of Long-Lived Mesoscale Convective Systems Over the Central United States in Convection Permitting Climate Simulations. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 13,288	4.4	34
10	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	4.4	33
9	Comparison of Simulated and Observed Continental Tropical Anvil Clouds and Their Radiative Heating Profiles. *Journals of the Atmospheric Sciences*, **2012**, 69, 2662-2681	2.1	31
8	Variation of Lightning and Convective Rain Fraction in Mesoscale Convective Systems of the MJO. *Journals of the Atmospheric Sciences*, **2015**, 72, 1932-1944	2.1	24
7	Latent heating characteristics of the MJO computed from TRMM Observations. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 1322-1334	4.4	20
6	A Global High-Resolution Mesoscale Convective System Database Using Satellite-Derived Cloud Tops, Surface Precipitation, and Tracking. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2020JD034202	4.4	17
5	Extreme Convective Storms Over High-Latitude Continental Areas Where Maximum Warming Is Occurring. *Geophysical Research Letters*, **2019**, 46, 4059-4065	4.9	15
4	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	4.4	14

3	A Stochastic Framework for Modeling the Population Dynamics of Convective Clouds. *Journal of Advances in Modeling Earth Systems*, **2018**, 10, 448-465	7.1	11
2	Using radar observations to evaluate 3-D radar echo structure simulated by the Energy Exascale Earth System Model (E3SM) version 1. *Geoscientific Model Development*, **2021**, 14, 719-734	6.3	2
1	The Diurnal and Microphysical Characteristics of MJO Rain Events during DYNAMO. *Journals of the Atmospheric Sciences*, **2019**, 2019, 67-80	2.1	1