

# Robert A Houze Jr

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A Global High-Resolution Mesoscale Convective System Database Using Satellite-Derived Cloud Tops, Surface Precipitation, and Tracking. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD034202	4.4	17
37	Using radar observations to evaluate 3-D radar echo structure simulated by the Energy Exascale Earth System Model (E3SM) version 1. <i>Geoscientific Model Development</i> , <b>2021</b> , 14, 719-734	6.3	2
36	Spatiotemporal Characteristics and Large-Scale Environments of Mesoscale Convective Systems East of the Rocky Mountains. <i>Journal of Climate</i> , <b>2019</b> , 32, 7303-7328	4.4	47
35	Extreme Convective Storms Over High-Latitude Continental Areas Where Maximum Warming Is Occurring. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 4059-4065	4.9	15
34	The Diurnal and Microphysical Characteristics of MJO Rain Events during DYNAMO. <i>Journals of the Atmospheric Sciences</i> , <b>2019</b> , 2019, 67-80	2.1	1
33	The Characteristics of Tropical and Midlatitude Mesoscale Convective Systems as Revealed by Radar Wind Profilers. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 4601-4619	4.4	14
32	Contrasting Spring and Summer Large-Scale Environments Associated with Mesoscale Convective Systems over the U.S. Great Plains. <i>Journal of Climate</i> , <b>2019</b> , 32, 6749-6767	4.4	33
31	A Stochastic Framework for Modeling the Population Dynamics of Convective Clouds. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 448-465	7.1	11
30	100 Years of Research on Mesoscale Convective Systems. <i>Meteorological Monographs</i> , <b>2018</b> , 59, 17.1-17.54	5.7	56
29	Structure and Evolution of Mesoscale Convective Systems: Sensitivity to Cloud Microphysics in Convection-Permitting Simulations Over the United States. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 1470-1494	7.1	86
28	Environments of Long-Lived Mesoscale Convective Systems Over the Central United States in Convection Permitting Climate Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 13,288	4.4	34
27	More frequent intense and long-lived storms dominate the springtime trend in central US rainfall. <i>Nature Communications</i> , <b>2016</b> , 7, 13429	17.4	114
26	Variation of Lightning and Convective Rain Fraction in Mesoscale Convective Systems of the MJO. <i>Journals of the Atmospheric Sciences</i> , <b>2015</b> , 72, 1932-1944	2.1	24
25	The variable nature of convection in the tropics and subtropics: A legacy of 16 years of the Tropical Rainfall Measuring Mission satellite. <i>Reviews of Geophysics</i> , <b>2015</b> , 53, 994-1021	23.1	186
24	Latent heating characteristics of the MJO computed from TRMM Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 1322-1334	4.4	20
23	Evolution of the Population of Precipitating Convective Systems over the Equatorial Indian Ocean in Active Phases of the Madden-Julian Oscillation. <i>Journals of the Atmospheric Sciences</i> , <b>2013</b> , 70, 2713-2725	2.1	81
22	Comparison of Simulated and Observed Continental Tropical Anvil Clouds and Their Radiative Heating Profiles. <i>Journals of the Atmospheric Sciences</i> , <b>2012</b> , 69, 2662-2681	2.1	31

21	Global Variability of Mesoscale Convective System Anvil Structure from A-Train Satellite Data. <i>Journal of Climate</i> , <b>2010</b> , 23, 5864-5888	4.4	99
20	Monsoon convection in the Himalayan region as seen by the TRMM Precipitation Radar. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2007</b> , 133, 1389	6.4	182
19	Mesoscale convective systems. <i>Reviews of Geophysics</i> , <b>2004</b> , 42,	23.1	745
18	The Tropical Dynamical Response to Latent Heating Estimates Derived from the TRMM Precipitation Radar. <i>Journals of the Atmospheric Sciences</i> , <b>2004</b> , 61, 1341-1358	2.1	261
17	Stratiform Rain in the Tropics as Seen by the TRMM Precipitation Radar*. <i>Journal of Climate</i> , <b>2003</b> , 16, 1739-1756	4.4	371
16	Climatological Characterization of Three-Dimensional Storm Structure from Operational Radar and Rain Gauge Data. <i>Journal of Applied Meteorology and Climatology</i> , <b>1995</b> , 34, 1978-2007		606
15	Three-Dimensional Kinematic and Microphysical Evolution of Florida Cumulonimbus. Part II: Frequency Distributions of Vertical Velocity, Reflectivity, and Differential Reflectivity. <i>Monthly Weather Review</i> , <b>1995</b> , 123, 1941-1963	2.4	442
14	Mesoscale Organization of Springtime Rainstorms in Oklahoma. <i>Monthly Weather Review</i> , <b>1990</b> , 118, 613-654	2.4	212
13	Interpretation of Doppler Weather Radar Displays of Midlatitude Mesoscale Convective Systems. <i>Bulletin of the American Meteorological Society</i> , <b>1989</b> , 70, 608-619	6.1	253
12	Observed structure of mesoscale convective systems and implications for large-scale heating. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>1989</b> , 115, 425-461	6.4	331
11	A Diagnostic Modelling Study of the Trailing Stratiform Region of a Midlatitude Squall Line. <i>Journals of the Atmospheric Sciences</i> , <b>1987</b> , 44, 2640-2656	2.1	81
10	Rear Inflow in Squall Lines with Trailing Stratiform Precipitation. <i>Monthly Weather Review</i> , <b>1987</b> , 115, 2869-2889	2.4	152
9	Further Analysis of the Composite Wind and Thermodynamic Structure of the 12 September GATE Squall Line. <i>Monthly Weather Review</i> , <b>1985</b> , 113, 1241-1260	2.4	37
8	Some Implications of the Mesoscale Circulations in Tropical Cloud Clusters for Large-Scale Dynamics and Climate. <i>Journals of the Atmospheric Sciences</i> , <b>1984</b> , 41, 113-121	2.1	237
7	Mesoscale Air Motions Associated with a Tropical Squall Line. <i>Monthly Weather Review</i> , <b>1982</b> , 110, 118-135	13.5	145
6	Convection in GATE. <i>Reviews of Geophysics</i> , <b>1981</b> , 19, 541	23.1	275
5	Diagnosis of Cloud Mass and Heat Fluxes from Radar and Synoptic Data. <i>Journals of the Atmospheric Sciences</i> , <b>1980</b> , 37, 754-773	2.1	39
4	The Structure and Evolution of Convection in a Tropical Cloud Cluster. <i>Journals of the Atmospheric Sciences</i> , <b>1979</b> , 36, 437-457	2.1	179

3	The Distribution of Convective and Mesoscale Precipitation in GATE Radar Echo Patterns. <i>Monthly Weather Review</i> , <b>1979</b> , 107, 1370-1381	2.4	61
2	Radar Characteristics of Tropical Convection Observed During GATE: Mean Properties and Trends Over the Summer Season. <i>Monthly Weather Review</i> , <b>1977</b> , 105, 964-980	2.4	139
1	Structure and Dynamics of a Tropical Squall-Line System. <i>Monthly Weather Review</i> , <b>1977</b> , 105, 1540-1567	2.4	340