

# Hirohiko Masunaga

## List of Publications by Year in descending order

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70  
papers

2,704  
citations

172457

29  
h-index

182427

51  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2443  
citing authors

#	ARTICLE	IF	CITATIONS
1	Process-Level Assessment of the Iris Effect Over Tropical Oceans. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	4
2	Refinement of Surface Precipitation Estimates for the Dual-frequency Precipitation Radar on the GPM Core Observatory Using Near-Nadir Measurements. <i>Journal of the Meteorological Society of Japan</i> , 2021, 99, 1231-1252.	1.8	6
3	A Satellite-Based Estimate of Convective Vertical Velocity and Convective Mass Flux: Global Survey and Comparison With Radar Wind Profiler Observations. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	10
4	Transient Aggregation of Convection: Observed Behavior and Underlying Processes. <i>Journal of Climate</i> , 2021, 34, 1685-1700.	3.2	3
5	Detection and Tracking of Tropical Convective Storms Based on Globally Gridded Precipitation Measurements: Algorithm and Survey over the Tropics. <i>Journal of Applied Meteorology and Climatology</i> , 2021, 60, 403-421.	1.5	6
6	Characterizing Ice-Scattering Homogeneity in TRMM Microwave Imagers and Its Influence on Oceanic Rain-Rate Estimation Bias of TRMM Precipitation Radar. <i>Atmosphere</i> , 2021, 12, 1377.	2.3	1
7	Vertical Modes and Effective Stability of Quasi-2-Day Waves. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 2005-2022.	1.7	1
8	A Mechanism for the Maintenance of Sharp Tropical Margins. <i>Journals of the Atmospheric Sciences</i> , 2019, 77, 1181-1197.	1.7	5
9	Inter-product biases in global precipitation extremes. <i>Environmental Research Letters</i> , 2019, 14, 125016.	5.2	40
10	Origins of Heavy Precipitation Biases in the TRMM PR and TMI Products Assessed with CloudSat and Reanalysis Data. <i>Journal of Applied Meteorology and Climatology</i> , 2019, 58, 37-54.	1.5	18
11	The Meandering Margin of the Meteorological Moist Tropics. <i>Geophysical Research Letters</i> , 2018, 45, 1177-1184.	4.0	29
12	Radiative Invigoration of Tropical Convection by Preceding Cirrus Clouds. <i>Journals of the Atmospheric Sciences</i> , 2018, 75, 1327-1342.	1.7	10
13	New Observational Metrics of Convective Self-Aggregation: Methodology and a Case Study. <i>Journal of the Meteorological Society of Japan</i> , 2018, 96, 535-548.	1.8	12
14	Global precipitation measurements for validating climate models. <i>Atmospheric Research</i> , 2017, 197, 1-20.	4.1	111
15	Comparison of TRMM-Derived Rainfall Products for General and Extreme Rains over the Maritime Continent. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 1867-1881.	1.5	18
16	Revisiting the iris effect of tropical cirrus clouds with TRMM and A-train satellite data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 5917-5931.	3.3	17
17	Relationship between the direction of diurnal rainfall migration and the ambient wind over the Southern Sumatra Island. <i>Earth and Space Science</i> , 2017, 4, 117-127.	2.6	22
18	Observing Convective Aggregation. <i>Surveys in Geophysics</i> , 2017, 38, 1199-1236.	4.6	102

#	ARTICLE	IF	CITATIONS
19	Implications of Warm Rain in Shallow Cumulus and Congestus Clouds for Large-Scale Circulations. <i>Surveys in Geophysics</i> , 2017, 38, 1257-1282.	4.6	17
20	A toy model of tropical convection with a moisture storage closure. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 647-667.	3.8	4
21	Observing Convective Aggregation. <i>Space Sciences Series of ISSI</i> , 2017, , 27-64.	0.0	5
22	Implications of Warm Rain in Shallow Cumulus and Congestus Clouds for Large-Scale Circulations. <i>Space Sciences Series of ISSI</i> , 2017, , 85-110.	0.0	2
23	Convective and large-scale mass flux profiles over tropical oceans determined from synergistic analysis of a suite of satellite observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7958-7974.	3.3	33
24	A Moist Static Energy Budget Analysis of Quasi-2-Day Waves Using Satellite and Reanalysis Data. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 743-759.	1.7	10
25	Assessment of a Satellite-Based Atmospheric Budget Analysis Method Using CINDY2011/DYNAMO/AMIE and TOGA COARE Sounding Array Data. <i>Journal of the Meteorological Society of Japan</i> , 2015, 93A, 21-40.	1.8	2
26	Early Evaluation of Ku- and Ka-Band Sensitivities for the Global Precipitation Measurement (GPM) Dual-Frequency Precipitation Radar (DPR). <i>Scientific Online Letters on the Atmosphere</i> , 2015, 11, 14-17.	1.4	62
27	Assessment of the consistency among global microwave land surface emissivity products. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1197-1205.	3.1	33
28	The Potential Roles of Background Surface Wind in the SST Variability Associated with Intraseasonal Oscillations. <i>Journal of Climate</i> , 2014, 27, 7053-7068.	3.2	4
29	Quantifying Uncertainties in Land-Surface Microwave Emissivity Retrievals. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 829-840.	6.3	32
30	A Mechanism of Tropical Convection Inferred from Observed Variability in the Moist Static Energy Budget. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 3747-3766.	1.7	36
31	Free-tropospheric moisture convergence and tropical convective regimes. <i>Geophysical Research Letters</i> , 2014, 41, 8611-8618.	4.0	12
32	An Evaluation of Microwave Land Surface Emissivities Over the Continental United States to Benefit GPM-Era Precipitation Algorithms. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 378-398.	6.3	95
33	A Satellite Study of Tropical Moist Convection and Environmental Variability: A Moisture and Thermal Budget Analysis. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 2443-2466.	1.7	37
34	A Satellite Study of the Relationship between Sea Surface Temperature and Column Water Vapor over Tropical and Subtropical Oceans. <i>Journal of Climate</i> , 2013, 26, 4204-4218.	3.2	14
35	Aerosol Effects on Cumulus Congestus Population over the Tropical Pacific: A Cloud-Resolving Modeling Study. <i>Journal of the Meteorological Society of Japan</i> , 2013, 91, 817-833.	1.8	13
36	A Satellite Study of the Atmospheric Forcing and Response to Moist Convection over Tropical and Subtropical Oceans. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 150-167.	1.7	38

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37	Reproducibility by Climate Models of Cloud Radiative Forcing Associated with Tropical Convection. <i>Journal of Climate</i> , 2012, 25, 1247-1262.	3.2	12
38	Short-Term versus Climatological Relationship between Precipitation and Tropospheric Humidity. <i>Journal of Climate</i> , 2012, 25, 7983-7990.	3.2	36
39	Development of a land surface emissivity algorithm for use by microwave rain retrieval algorithms. <i>Proceedings of SPIE</i> , 2012, , .	0.8	11
40	Analysis of Cloud Properties Associated with Tropical Convection in Climate Models and Satellite Data. <i>Journal of the Meteorological Society of Japan</i> , 2012, 90, 629-646.	1.8	1
41	Equatorial Asymmetry of the East Pacific ITCZ: Observational Constraints on the Underlying Processes. <i>Journal of Climate</i> , 2011, 24, 1784-1800.	3.2	25
42	Improving a spectral bin microphysical scheme using TRMM satellite observations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 382-399.	2.7	40
43	The Southeast Pacific Warm Band and Double ITCZ. <i>Journal of Climate</i> , 2010, 23, 1189-1208.	3.2	20
44	Satellite Data Simulator Unit. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 1625-1632.	3.3	85
45	An MJO Simulated by the NICAM at 14- and 7-km Resolutions. <i>Monthly Weather Review</i> , 2009, 137, 3254-3268.	1.4	53
46	Evaluation of Long-Term Cloud-Resolving Model Simulations Using Satellite Radiance Observations and Multifrequency Satellite Simulators. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009, 26, 1261-1274.	1.3	78
47	Evaluation of Precipitation and High-Level Cloud Areas Associated with Large-Scale Circulation over the Tropical Pacific in the CMIP3 Models. <i>Journal of the Meteorological Society of Japan</i> , 2009, 87, 771-789.	1.8	3
48	A 9-season TRMM Observation of the Austral Summer MJO and Low-frequency Equatorial Waves. <i>Journal of the Meteorological Society of Japan</i> , 2009, 87A, 295-315.	1.8	10
49	Temporal and Spatial Variability of Clouds and Related Aerosols. , 2009, , 127-148.		2
50	A joint satellite and global cloud-resolving model analysis of a Madden-Julian Oscillation event: Model diagnosis. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	73
51	Seasonality and Regionality of the Madden-Julian Oscillation, Kelvin Wave, and Equatorial Rossby Wave. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 4400-4416.	1.7	66
52	A Next-generation Microwave Rainfall Retrieval Algorithm for use by TRMM and GPM. , 2007, , 235-252.		5
53	Satellite-based assessment of marine low cloud variability associated with aerosol, atmospheric stability, and the diurnal cycle. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	78
54	Observations of tropical precipitating clouds ranging from shallow to deep convective systems. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	42

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55	Variability in the Characteristics of Precipitation Systems in the Tropical Pacific. Part II: Implications for Atmospheric Heating. <i>Journal of Climate</i> , 2006, 19, 1388-1406.	3.2	10
56	The Madden-Julian Oscillation Recorded in Early Observations from the Tropical Rainfall Measuring Mission (TRMM). <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 2777-2794.	1.7	90
57	Quantifying Global Uncertainties in a Simple Microwave Rainfall Algorithm. <i>Journal of Atmospheric and Oceanic Technology</i> , 2006, 23, 23-37.	1.3	33
58	Variability in the Characteristics of Precipitation Systems in the Tropical Pacific. Part I: Spatial Structure. <i>Journal of Climate</i> , 2005, 18, 823-840.	3.2	71
59	Combined Radar and Radiometer Analysis of Precipitation Profiles for a Parametric Retrieval Algorithm. <i>Journal of Atmospheric and Oceanic Technology</i> , 2005, 22, 909-929.	1.3	76
60	Effects of atmospheric sphericity on stratospheric chemistry and dynamics over Antarctica. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	16
61	Impact of aerosols and atmospheric thermodynamics on cloud properties within the climate system. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	57
62	Physical properties of maritime low clouds as retrieved by combined use of Tropical Rainfall Measurement Mission Microwave Imager and Visible/Infrared Scanner: Algorithm. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 1-1-AAC 1-12.	3.3	22
63	Physical properties of maritime low clouds as retrieved by combined use of Tropical Rainfall Measuring Mission (TRMM) Microwave Imager and Visible/Infrared Scanner 2. <i>Climatology of warm clouds and rain. Journal of Geophysical Research</i> , 2002, 107, AAC 3-1.	3.3	37
64	Comparison of Rainfall Products Derived from TRMM Microwave Imager and Precipitation Radar. <i>Journal of Applied Meteorology and Climatology</i> , 2002, 41, 849-862.	1.7	76
65	The Effective Cloud Fraction of Broken Clouds Obtained by Multistream Radiative Transfer. Part I: Longwave Radiation. <i>Journals of the Atmospheric Sciences</i> , 2001, 58, 2455-2467.	1.7	3
66	A Radiation Hydrodynamic Model for Protostellar Collapse. II. The Second Collapse and the Birth of a Protostar. <i>Astrophysical Journal</i> , 2000, 531, 350-365.	4.5	398
67	Infall Signatures in Spectral Line Profiles of Protostellar Envelopes. <i>Astrophysical Journal</i> , 2000, 536, 406-415.	4.5	16
68	Does $\alpha_1$ Terminate the Isothermal Evolution of Collapsing Clouds?. <i>Astrophysical Journal</i> , 1999, 510, 822-827.	4.5	66
69	A Radiation Hydrodynamical Model for Protostellar Collapse. <i>Astrophysics and Space Science Library</i> , 1999, , 169-170.	2.7	0
70	A Radiation Hydrodynamic Model for Protostellar Collapse. I. The First Collapse. <i>Astrophysical Journal</i> , 1998, 495, 346-369.	4.5	227