

# Hung-Chi Kuo

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

1,831  
citations

279798

23  
h-index

276875

41  
g-index

68  
all docs

68  
docs citations

68  
times ranked

1305  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the extreme rainfall of Typhoon Morakot (2009). <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	141
2	Stability of cloud-topped boundary layers. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1988, 114, 887-916.	2.7	106
3	Ensemble forecasting of typhoon rainfall and floods over a mountainous watershed in Taiwan. <i>Journal of Hydrology</i> , 2013, 506, 55-68.	5.4	82
4	Potential Vorticity Modeling of the ITCZ and the Hadley Circulation. <i>Journals of the Atmospheric Sciences</i> , 1991, 48, 1493-1509.	1.7	81
5	A Possible Mechanism for the Eye Rotation of Typhoon Herb. <i>Journals of the Atmospheric Sciences</i> , 1999, 56, 1659-1673.	1.7	80
6	Cloud Microphysics Impact on Hurricane Track as Revealed in Idealized Experiments. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 1764-1778.	1.7	76
7	Western North Pacific Typhoons with Concentric Eyewalls. <i>Monthly Weather Review</i> , 2009, 137, 3758-3770.	1.4	74
8	The Formation of Concentric Vorticity Structures in Typhoons. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 2722-2734.	1.7	73
9	Effects of Asymmetric Latent Heating on Typhoon Movement Crossing Taiwan: The Case of Morakot (2009) with Extreme Rainfall. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 3172-3196.	1.7	73
10	Potential Vorticity in a Moist Atmosphere. <i>Journals of the Atmospheric Sciences</i> , 2001, 58, 3148-3157.	1.7	71
11	Vortex Interactions and Barotropic Aspects of Concentric Eyewall Formation. <i>Monthly Weather Review</i> , 2008, 136, 5183-5198.	1.4	71
12	On the Geographic Asymmetry of Typhoon Translation Speed across the Mountainous Island of Taiwan. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 1006-1022.	1.7	66
13	Large Increasing Trend of Tropical Cyclone Rainfall in Taiwan and the Roles of Terrain. <i>Journal of Climate</i> , 2013, 26, 4138-4147.	3.2	65
14	Temporal and Spatial Characteristics of Typhoon Extreme Rainfall in Taiwan. <i>Journal of the Meteorological Society of Japan</i> , 2012, 90, 721-736.	1.8	60
15	Metabolic stratification driven by surface and subsurface interactions in a terrestrial mud volcano. <i>ISME Journal</i> , 2012, 6, 2280-2290.	9.8	54
16	Hurricane Eyewall Evolution in a Forced Shallow-Water Model. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 1623-1643.	1.7	51
17	Structural and Intensity Changes of Concentric Eyewall Typhoons in the Western North Pacific Basin. <i>Monthly Weather Review</i> , 2013, 141, 2632-2648.	1.4	47
18	Influence of Cloud Microphysics and Radiation on Tropical Cyclone Structure and Motion. <i>Meteorological Monographs</i> , 2016, 56, 11.1-11.27.	5.0	37

#	ARTICLE	IF	CITATIONS
19	Topographic Effects on Barotropic Vortex Motion: No Mean Flow. <i>Journals of the Atmospheric Sciences</i> , 2001, 58, 1310-1327.	1.7	35
20	Sensitivity of typhoon track to asymmetric latent heating/rainfall induced by Taiwan topography: A numerical study of Typhoon Fanapi (2010). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 3292-3308.	3.3	34
21	High-resolution quantitative precipitation forecasts and simulations by the Cloud-Resolving Storm Simulator (CReSS) for Typhoon Morakot (2009). <i>Journal of Hydrology</i> , 2013, 506, 26-41.	5.4	32
22	Assessment of sewer flooding model based on ensemble quantitative precipitation forecast. <i>Journal of Hydrology</i> , 2013, 506, 101-113.	5.4	30
23	Merger of Tropical Cyclones Zeb and Alex. <i>Monthly Weather Review</i> , 2000, 128, 2967-2975.	1.4	27
24	Improvement of watershed flood forecasting by typhoon rainfall climate model with an ANN-based southwest monsoon rainfall enhancement. <i>Journal of Hydrology</i> , 2013, 506, 90-100.	5.4	24
25	Semi-Lagrangian Solutions to the Inviscid Burgers Equation. <i>Monthly Weather Review</i> , 1990, 118, 1278-1288.	1.4	22
26	A numerical study of back-building process in a quasistationary rainband with extreme rainfall over northern Taiwan during 11â€“12 June 2012. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 12359-12382.	4.9	22
27	A numerical study of convection in rainbands of Typhoon Morakot (2009) with extreme rainfall: roles of pressure perturbations with low-level wind maxima. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11097-11115.	4.9	21
28	English translations of twenty-one of Ertel's papers on geophysical fluid dynamics. <i>Meteorologische Zeitschrift</i> , 2004, 13, 527-576.	1.0	19
29	Structure and Maintenance Mechanism of Long-Lived Concentric Eyewalls Associated with Simulated Typhoon Bolaven (2012). <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 3609-3634.	1.7	19
30	Evaluation of Humidity Correction Methods for Vaisala RS92 Tropical Sounding Data. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015, 32, 397-411.	1.3	18
31	On Typhoon Track Deflections near the East Coast of Taiwan. <i>Monthly Weather Review</i> , 2018, 146, 1495-1510.	1.4	18
32	Observation of Quasi-2-Day Convective Disturbances in the Equatorial Indian Ocean during DYNAMO. <i>Journals of the Atmospheric Sciences</i> , 2018, 75, 2867-2888.	1.7	16
33	Potential Vorticity Mixing and Rapid Intensification in the Numerically Simulated Supertyphoon Haiyan (2013). <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 2067-2090.	1.7	15
34	Influence of southwest monsoon flow and typhoon track on Taiwan rainfall during the exit phase: modelling study of typhoon <i>Morakot</i> (2009). <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 3014-3024.	2.7	14
35	Quasi-balanced Dynamics in the Tropics. <i>Journals of the Atmospheric Sciences</i> , 1990, 47, 2262-2273.	1.7	13
36	Boundary Effects in Regional Spectral Models. <i>Monthly Weather Review</i> , 1992, 120, 2986-2992.	1.4	12

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37	Numerical Simulations of Typhoon Morakot (2009) Using a Multiply Nested Tropical Cyclone Prediction Model. <i>Weather and Forecasting</i> , 2016, 31, 627-645.	1.4	12
38	Scale-Dependent Accuracy in Regional Spectral Methods. <i>Monthly Weather Review</i> , 1998, 126, 2640-2647.	1.4	9
39	Diagnosis of the Dynamic Efficiency of Latent Heat Release and the Rapid Intensification of Supertyphoon Haiyan (2013). <i>Monthly Weather Review</i> , 2019, 147, 1127-1147.	1.4	9
40	Inner-Core Wind Field in a Concentric Eyewall Replacement of Typhoon Trami (2018): A Quantitative Analysis Based on the Himawari-8 Satellite. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034434.	3.3	9
41	Convection and Rapid Filamentation in Typhoon Sinlaku during TCS-08/T-PARC. <i>Monthly Weather Review</i> , 2012, 140, 2806-2817.	1.4	8
42	Long-Lived Concentric Eyewalls in Typhoon Soulik (2013). <i>Monthly Weather Review</i> , 2014, 142, 3365-3371.	1.4	8
43	On the separation of upper and low-level centres of tropical storm Kong-ey (2013) near Taiwan in association with asymmetric latent heating. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 1135-1149.	2.7	8
44	Track Deflection of Typhoon Maria (2018) during a Westbound Passage Offshore of Northern Taiwan: Topographic Influence. <i>Monthly Weather Review</i> , 2020, 148, 4519-4544.	1.4	8
45	Filamentation Time Diagnosis of Thinning Troughs and Cutoff Lows. <i>Monthly Weather Review</i> , 2010, 138, 2327-2335.	1.4	7
46	Improvement of Statistical Typhoon Rainfall Forecasting with ANN-Based Southwest Monsoon Enhancement. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2011, 22, 633.	0.6	7
47	Relationship between Typhoons with Concentric Eyewalls and ENSO in the Western North Pacific Basin. <i>Journal of Climate</i> , 2015, 28, 3612-3623.	3.2	6
48	Deep convection in elliptical and polygonal eyewalls of tropical cyclones. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 14,456.	3.3	6
49	A Deep Learning Approach to Radar-Based QPE. <i>Earth and Space Science</i> , 2021, 8, e2020EA001340.	2.6	6
50	Effects of artificial local compensation of convective mass flux in the cumulus parameterization. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 1811-1827.	3.8	5
51	Understanding Multidecadal Climate Changes. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 293-296.	3.3	4
52	Characteristics of the Long-Lived Concentric Eyewalls in Tropical Cyclones. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033703.	3.3	4
53	A study on the high-order Smolarkiewicz methods. <i>Computers and Fluids</i> , 1999, 28, 779-799.	2.5	3
54	Satellite Climatology of Tropical Cyclone with Concentric Eyewalls. , 2016, , .		2

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55	A Numerical Study of the Sensitivity of Typhoon Track and Convection Structure to Cloud Microphysics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034390.	3.3	2
56	Large Increasing Trend of Tropical Cyclone Rainfall in Taiwan and the Roles of Terrain and Southwest Monsoon. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2017, , 255-265.	0.2	2
57	Pvectors as a Diagnostic Tool for Synoptic-Scale Circulations. <i>Monthly Weather Review</i> , 1995, 123, 776-789.	1.4	1
58	A New Parallel Domain-Decomposed Chebyshev Collocation Method for Atmospheric and Oceanic Modeling. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2012, 23, 439.	0.6	1
59	Experiments with a Spectral Convection Model. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 1999, 10, 651.	0.6	1
60	Quasi-24-Hour and Diurnal Cloud Variation Timescales Over Convectively Active Regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035426.	3.3	1
61	Scaling Law for Boundary Layer Inner Eyewall Pumping in Concentric Eyewalls. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	1
62	A Numerical Study for Tropical Cyclone Atsani (2020) Past Offshore of Southern Taiwan under Topographic Influences. <i>Atmosphere</i> , 2022, 13, 618.	2.3	1
63	Record-Breaking Increase of Tropical Cyclone Heavy Rainfall in Taiwan in the First Decade of 21st Century. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2015, , 315-326.	0.2	0
64	Barotropic Aspects of Hurricane Structural and Intensity Variability. , 0, , .		0