Fredolin T Tangang

List of Publications by Year
in descending order

111 papers	3,876 citations	117619 34 h-index	138468 58 g-index
112 all docs	112 docs citations	112 times ranked	3539 citing authors

#	Article	IF	Citations
1	WCRP COordinated Regional Downscaling EXperiment (CORDEX): a diagnostic MIP for CMIP6. Geoscientific Model Development, 2016, 9, 4087-4095.	3.6	286
2	Future Global Meteorological Drought Hot Spots: A Study Based on CORDEX Data. Journal of Climate, 2020, 33, 3635-3661.	3.2	230
3	Evolution of ENSO-related rainfall anomalies in Southeast Asia region and its relationship with atmosphere–ocean variations in Indo-Pacific sector. Climate Dynamics, 2005, 25, 337-350.	3.8	171
4	Bimodal Character of Cyclone Climatology in the Bay of Bengal Modulated by Monsoon Seasonal Cycle*. Journal of Climate, 2013, 26, 1033-1046.	3.2	154
5	Impact of regional haze towards air quality in Malaysia: A review. Atmospheric Environment, 2018, 177, 28-44.	4.1	143
6	On the roles of the northeast cold surge, the Borneo vortex, the Madden–Julian Oscillation, and the Indian Ocean Dipole during the extreme 2006/2007 flood in southern Peninsular Malaysia. Geophysical Research Letters, 2008, 35, .	4.0	132
7	Observed changes in extreme temperature and precipitation over Indonesia. International Journal of Climatology, 2017, 37, 1979-1997.	3.5	106
8	Projected future changes in rainfall in Southeast Asia based on CORDEX–SEA multi-model simulations. Climate Dynamics, 2020, 55, 1247-1267.	3.8	102
9	Forecasting ENSO Events: A Neural Network–Extended EOF Approach. Journal of Climate, 1998, 11, 29-41.	3.2	97
10	ENSO modulation of seasonal rainfall and extremes in Indonesia. Climate Dynamics, 2018, 51, 2559-2580.	3.8	97
11	Forecasting the equatorial Pacific sea surface temperatures by neural network models. Climate Dynamics, 1997, 13, 135-147.	3.8	91
12	Performance evaluation of <scp>RegCM4</scp> in simulating extreme rainfall and temperature indices over the <scp>CORDEX</scp>–Southeast Asia region. International Journal of Climatology, 2017, 37, 1634-1647.	3.5	88
13	Spatio-temporal characteristics of PM10 concentration across Malaysia. Atmospheric Environment, 2009, 43, 4584-4594.	4.1	84
14	Trend and interannual variability of temperature in Malaysia: 1961–2002. Theoretical and Applied Climatology, 2007, 89, 127-141.	2.8	79
15	Factors influencing the variations of PM10 aerosol dust in Klang Valley, Malaysia during the summer. Atmospheric Environment, 2011, 45, 4370-4378.	4.1	79
16	Bias correction of global and regional simulated daily precipitation and surface mean temperature over Southeast Asia using quantile mapping method. Global and Planetary Change, 2017, 149, 79-90.	3.5	78
17	Multi-model projections of precipitation extremes in Southeast Asia based on CORDEX-Southeast Asia simulations. Environmental Research, 2020, 184, 109350.	7.5	72
18	Skill Comparisons between Neural Networks and Canonical Correlation Analysis in Predicting the Equatorial Pacific Sea Surface Temperatures. Journal of Climate, 2000, 13, 287-293.	3.2	70

#	Article	IF	Citations
19	Mechanisms of Malaysian Rainfall Anomalies. Journal of Climate, 2004, 17, 3616-3622.	3.2	69
20	Sensitivity of Southeast Asia rainfall simulations to cumulus and air-sea flux parameterizations in RegCM4. Climate Research, 2016, 69, 59-77.	1.1	65
21	Wave energy potential assessment in the central and southern regions of the South China Sea. Renewable Energy, 2015, 80, 454-470.	8.9	59
22	Characteristics of precipitation extremes in Malaysia associated with El NiÃ±o and La NiÃ±a events. International Journal of Climatology, 2017, 37, 696-716.	3.5	58
23	Numerical case study of an extreme rainfall event during 9â€"11 December 2004 over the east coast of Peninsular Malaysia. Meteorology and Atmospheric Physics, 2007, 98, 81-98.	2.0	57
24	Future changes in annual precipitation extremes over Southeast Asia under global warming of 2Â°C. APN Science Bulletin, 2018, 8, .	0.7	54
25	THE MARITIME CONTINENT MONSOON. World Scientific Series on Asia-Pacific Weather and Climate, 2011, , 85-98.	0.2	51
26	Wave energy potential along the east coast of Peninsular Malaysia. Energy, 2014, 68, 722-734.	8.8	49
27	Evaluation of CMIP5 coupled atmosphere-ocean general circulation models and projection of the Southeast Asian winter monsoon in the 21st century. International Journal of Climatology, 2014, 34, 2872-2884.	3.5	46
28	Forecasting regional sea surface temperatures in the tropical Pacific by neural network models, with wind stress and sea level pressure as predictors. Journal of Geophysical Research, 1998, 103, 7511-7522.	3.3	45
29	Wave climate simulation for southern region of the South China Sea. Ocean Dynamics, 2013, 63, 961-977.	2.2	44
30	Sensitivity of temperature to physical parameterization schemes of <scp>RegCM4</scp> over the <scp>CORDEX</scp>â€Southeast Asia region. International Journal of Climatology, 2017, 37, 5139-5153.	3.5	43
31	Differential impacts of conventional El NiÃ±o<i>versus</i>El NiÃ±o Modoki on Malaysian rainfall anomaly during winter monsoon. International Journal of Climatology, 2014, 34, 2763-2774.	3.5	40
32	Projected future changes in mean precipitation over Thailand based on multiâ€model regional climate simulations of CORDEX Southeast Asia. International Journal of Climatology, 2019, 39, 5413-5436.	3.5	39
33	Evaluation of Gridded Precipitation Datasets in Malaysia. Remote Sensing, 2020, 12, 613.	4.0	39
34	Seasonal circulations in the Malay Peninsula Eastern continental shelf from a waveâ€"tideâ€"circulation coupled model. Ocean Dynamics, 2011, 61, 1317-1328.	2.2	38
35	Intermonsoon Variation of Physical Characteristics and Current Circulation along the East Coast of Peninsular Malaysia. International Journal of Oceanography, 2014, 2014, 1-9.	0.2	38
36	Application of Quantile Mapping Bias Correction for Mid-Future Precipitation Projections over Vietnam. Scientific Online Letters on the Atmosphere, 2019, 15, 1-6.	1.4	38

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37	Evidence of Upwelling along Peninsular Malaysia during Southwest Monsoon. Open Journal of Marine Science, 2015, 05, 273-279.	0.5	32
38	Present-day regional climate simulation over Malaysia and western Maritime Continent region using PRECIS forced with ERA40 reanalysis. Theoretical and Applied Climatology, 2014, 115, 1-14.	2.8	30
39	Future hydro-meteorological drought of the Johor River Basin, Malaysia, based on CORDEX-SEA projections. Hydrological Sciences Journal, 2019, 64, 921-933.	2.6	30
40	Statistical Downscaling Forecasts for Winter Monsoon Precipitation in Malaysia Using Multimodel Output Variables. Journal of Climate, 2010, 23, 17-27.	3.2	29
41	Low frequency and quasi-biennial oscillations in the Malaysian precipitation anomaly. International Journal of Climatology, 2001, 21, 1199-1210.	3.5	28
42	Predictability of Indian Ocean sea surface temperature using canonical correlation analysis. Climate Dynamics, 2004, 22, 481-497.	3.8	28
43	Numerical simulation of a severe late afternoon thunderstorm over Peninsular Malaysia. Atmospheric Research, 2011, 99, 248-262.	4.1	28
44	Seasonal Dependence of Cold Surges and their Interaction with the Madden–Julian Oscillation over Southeast Asia. Journal of Climate, 2020, 33, 2467-2482.	3.2	28
45	Performances of BATS and CLM land–surface schemes in RegCM4 in simulating precipitation over CORDEX Southeast Asia domain. International Journal of Climatology, 2018, 38, 794-810.	3.5	27
46	Changes in temperature extremes and their relationship with <scp>ENSO</scp> in Malaysia from 1985 to 2018. International Journal of Climatology, 2021, 41, E2564.	3.5	27
47	Long–term trends of winter monsoon synoptic circulations over the maritime continent: 1962–2007. Atmospheric Science Letters, 2010, 11, 199-203.	1.9	26
48	Global exposure of population and land–use to meteorological droughts under different warming levels and <scp>SSPs</scp>: A <scp>CORDEX</scp>–based study. International Journal of Climatology, 2021, 41, 6825-6853.	3.5	26
49	Projected rainfall and temperature changes over Malaysia at the end of the 21st century based on PRECIS modelling system. Asia-Pacific Journal of Atmospheric Sciences, 2016, 52, 191-208.	2.3	25
50	Simulation of tropical cyclone Vamei (2001) using the PSU/NCAR MM5 model. Meteorology and Atmospheric Physics, 2007, 97, 273-290.	2.0	24
51	Thermal frontal zone along the east coast of Peninsular Malaysia. Continental Shelf Research, 2015, 110, 1-15.	1.8	24
52	Spatiotemporal trends in the southwest monsoon wind-driven upwelling in the southwestern part of the South China Sea. PLoS ONE, 2017, 12, e0171979.	2.5	23
53	Diurnal variation of precipitation from the perspectives of precipitation amount, intensity and duration over Sumatra from rain gauge observations. International Journal of Climatology, 2021, 41, 4386-4397.	3.5	23
54	Differential Influences of Teleconnections from the Indian and Pacific Oceans on Rainfall Variability in Southeast Asia. Atmosphere, 2020, 11, 886.	2.3	21

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55	Validation of the WRF regional climate model over the subregions of Southeast Asia: climatology and interannual variability. Climate Research, 2017, 71, 263-280.	1.1	21
56	Index-based insurance and hydroclimatic risk management in agriculture: A systematic review of index selection and yield-index modelling methods. International Journal of Disaster Risk Reduction, 2022, 67, 102653.	3.9	20
57	Simulation of heavy precipitation episode over eastern Peninsular Malaysia using MM5: sensitivity to cumulus parameterization schemes. Meteorology and Atmospheric Physics, 2010, 107, 33-49.	2.0	19
58	Future projections of Malaysia daily precipitation characteristics using bias correction technique. Atmospheric Research, 2020, 240, 104926.	4.1	19
59	Level and source of predictability of seasonal rainfall anomalies in Malaysia using canonical correlation analysis. International Journal of Climatology, 2008, 28, 1255-1267.	3.5	17
60	SouthEast Asia HydrO-meteorological droughT (SEA-HOT) framework: A case study in the Kelantan River Basin, Malaysia. Atmospheric Research, 2020, 246, 105155.	4.1	17
61	Providing future climate projections using multiple models and methods: insights from the Philippines. Climatic Change, 2018, 148, 187-203.	3.6	16
62	Climate analogue and future appearance of novel climate in Southeast Asia. International Journal of Climatology, 2021, 41, E392.	3.5	16
63	Land â€" sea contrast of diurnal cycle characteristics and rain event propagations over Sumatra according to different rain duration and seasons. Atmospheric Research, 2022, 270, 106051.	4.1	16
64	The performance of different cumulus parameterization schemes in simulating the 2006/2007 southern peninsular Malaysia heavy rainfall episodes. Journal of Earth System Science, 2012, 121, 317-327.	1.3	15
65	Investigating the mechanisms of diurnal rainfall variability over Peninsular Malaysia using the non-hydrostatic regional climate model. Meteorology and Atmospheric Physics, 2018, 130, 611-633.	2.0	14
66	Drought Variability and Characteristics in the Muda River Basin of Malaysia from 1985 to 2019. Atmosphere, 2021, 12, 1210.	2.3	14
67	Prediction of salinity intrusion in the sheltered estuary of Terengganu River in Malaysia using 1-D empirical intrusion model. Acta Oceanologica Sinica, 2017, 36, 57-66.	1.0	10
68	Delineation of urban expansion influences urban heat islands and natural environment using remote sensing and GIS-based in industrial area. Environmental Science and Pollution Research, 2022, 29, 73147-73170.	5.3	10
69	Projected evolution of drought characteristics in <scp>Vietnam</scp> based on <scp>CORDEXâ€SEA</scp> downscaled <scp>CMIP5</scp> data. International Journal of Climatology, 2021, 41, 5733-5751.	3.5	9
70	The Impact of Meteorological Factors on Communicable Disease Incidence and Its Projection: A Systematic Review. International Journal of Environmental Research and Public Health, 2021, 18, 11117.	2.6	9
71	Modeling storm surges associated with super typhoon durian in South China Sea. Natural Hazards, 2014, 70, 23-37.	3.4	8
72	Extreme Rainfall Projections for Malaysia at the End of 21st Century Using the High Resolution Non-Hydrostatic Regional Climate Model (NHRCM). Scientific Online Letters on the Atmosphere, 2020, 16, 132-139.	1.4	8

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73	Characteristics of Precipitation Diurnal Cycle over a Mountainous Area of Sumatra Island including MJO and Seasonal Signatures Based on the 15-Year Optical Rain Gauge Data, WRF Model and IMERG. Atmosphere, 2022, 13, 63.	2.3	8
74	Sensitivity of Typhoon Vamei (2001) Simulation to Planetary Boundary Layer Parameterization Using PSU/NCAR MM5. Pure and Applied Geophysics, 2011, 168, 1799-1811.	1.9	7
75	Time of emergence of climate signals over Vietnam detected from the CORDEXâ€SEA experiments. International Journal of Climatology, 2021, 41, 1599-1618.	3.5	7
76	Projected mean and extreme precipitation based on bias-corrected simulation outputs of CORDEX Southeast Asia. Weather and Climate Extremes, 2022, 37, 100484.	4.1	7
77	A potential problem with extended EOF analysis of standing wave fields. Atmosphere - Ocean, 1999, 37, 241-254.	1.6	6
78	Improvement of the ESA CCI Land cover maps for water balance analysis in tropical regions: A case study in the Muda River Basin, Malaysia. Journal of Hydrology: Regional Studies, 2021, 36, 100837.	2.4	6
79	Projected Precipitation Changes over Malaysia by the End of the 21st Century Using PRECIS Regional Climate Model. , 2013, , 3-20.		6
80	Climatological characterization of tropical cyclones detected in the regional climate simulations over the CORDEXâ€SEA domain. International Journal of Climatology, 2021, 41, 4236-4252.	3.5	5
81	Climate change impact on sea surface winds in Southeast Asia. International Journal of Climatology, 2022, 42, 3571-3595.	3.5	5
82	A study of El NiÃ±o-Southern oscillation impacts to the South China Sea region using ground-based GPS receiver. Journal of Physics: Conference Series, 2013, 423, 012043.	0.4	4
83	Skill evaluation of the CanCM4 and its MOS for seasonal rainfall forecast in Malaysia during the early and late winter monsoon periods. International Journal of Climatology, 2016, 36, 439-454.	3.5	4
84	An objective definition of summer monsoon onset in the northwestern maritime continent. International Journal of Climatology, 2019, 39, 4313-4328.	3.5	4
85	The Malay-Version Knowledge, Risk Perception, Attitude and Practice Questionnaire on Heatwaves: Development and Construct Validation. International Journal of Environmental Research and Public Health, 2022, 19, 2279.	2.6	4
86	Wind-wave simulation in South China Sea: Preliminary results of model evaluation using different wind forcing. AIP Conference Proceedings, 2013, , .	0.4	3
87	Numerical modeling of hydrodynamic in southwestern Johor, Malaysia. , 2014, , .		3
88	Madden Julian oscillation modulation for surface ozone in Peninsular Malaysia. Atmospheric Environment, 2020, 233, 117577.	4.1	3
89	Characterization of GPS PWV during flooding event over Keningau, Sabah. , 2013, , .		2
90	Identification of biophysical regions in the south-western part of the Okhotsk Sea by satellite imagery classification. Continental Shelf Research, 2015, 96, 16-26.	1.8	2

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91	Modeling the Influence of River Flow and Salt Water Intrusion in the Terengganu Estuary, Malaysia. IOP Conference Series: Materials Science and Engineering, 2016, 136, 012076.	0.6	2
92	Regional climate downscaling over Asia-Pacific region. Asia-Pacific Journal of Atmospheric Sciences, 2016, 52, 77-77.	2.3	2
93	Spatio-temporal characteristics of temperature and precipitation extremes in Indonesian Borneo. AIP Conference Proceedings, 2016, , .	0.4	2
94	MM5 SIMULATED EVOLUTION AND STRUCTURE OF TYPHOON VAMEI (2001). , 0, , 191-207.		2
95	Practical Predictability of the 17 December 2014 Heavy Rainfall Event over East Coast of Peninsular Malaysia using WRF Model. Sains Malaysiana, 2019, 48, 2297-2306.	0.5	2
96	Climatological Features of Squall Line at the Borneo Coastline during Southwest Monsoon. Atmosphere, 2022, 13, 116.	2.3	2
97	Simulation of upper Kuantan River basin streamflow using SWAT model. AIP Conference Proceedings, 2015, , .	0.4	1
98	Variability of GPS water vapor associated with warming activity in Peninsular Malaysia during the period of 2008â€"2011. Journal of Water and Climate Change, 2016, 7, 240-250.	2.9	1
99	Seasonal Hypoxia Occurrence At Terengganu Estuary, Malaysia And its Potential Formation Mechanisms. IOP Conference Series: Materials Science and Engineering, 2016, 136, 012068.	0.6	1
100	Daily spectral ocean surface albedo (OSA) parameterization in case of clearness index (Kt) and phytoplankton variability in Malacca Strait. Estuarine, Coastal and Shelf Science, 2020, 244, 106939.	2.1	1
101	Diurnal rainfall variability in West Sumatra from rain gauge observation. AIP Conference Proceedings, 2020, , .	0.4	1
102	Progress in Climate Change Downscaling Simulations in Southeast Asia. , 2021, , 13-36.		1
103	A Preliminary Study of Cold Surges and Precipitation During the Northeast Monsoon Season Over Malaysia. Advanced Science Letters, 2015, 21, 185-188.	0.2	1
104	Klimatologi Hujan Diurnal dan Bayu Laut-Darat di Semenanjung Malaysia. Sains Malaysiana, 2019, 48, 509-522.	0.5	1
105	Prediction Skill of NCEP CFSv2 for Seasonal Precipitation and Surface Air Temperature Forecast over Southeast Asia. Sains Malaysiana, 2019, 48, 2325-2334.	0.5	1
106	Potential influence of sea surface temperature representation in climate model simulations over CORDEXâ€SEA domain. International Journal of Climatology, 0, , .	3.5	1
107	Evaluation of CMIP5 coupled atmosphere-ocean general circulation models over the Southeast Asian winter monsoon in the 20th century. , 2014, , .		0
108	Simulation of surface temperature in Southeast Asia during the Southeast Asian southwest monsoon using RegCM4. AIP Conference Proceedings, 2015, , .	0.4	0

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109	Initial observations of cold surge frequency over Southeast Asia in relation to ENSO-induced anomalies. , 2015, , .		0
110	Spatial and Temporal Variations of Coastal Fishing Area by Satellite Imagery Classification. Journal of Fisheries and Aquatic Science, 2013, 8, 581-594.	0.1	0
111	Utilization of Wind Steadiness Index for Identification of Malaysian Northeast Monsoon Onset and Withdrawal from 2011 to 2015. Advanced Science Letters, 2017, 23, 1440-1443.	0.2	0