Hong Tan

List of Publications by Year in descending order

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92 papers	2,789 citations	185998 28 h-index	197535 49 g-index
92 all docs	92 docs citations	92 times ranked	2297 citing authors

#	Article	IF	Citations
1	Evaluation of Six High-Resolution Satellite and Ground-Based Precipitation Products over Malaysia. Remote Sensing, 2015, 7, 1504-1528.	1.8	219
2	Comparison of GPM IMERG, TMPA 3B42 and PERSIANN-CDR satellite precipitation products over Malaysia. Atmospheric Research, 2018, 202, 63-76.	1.8	208
3	Assessment of GPM and TRMM Precipitation Products over Singapore. Remote Sensing, 2017, 9, 720.	1.8	171
4	Climate change impacts under CMIP5 RCP scenarios on water resources of the Kelantan River Basin, Malaysia. Atmospheric Research, 2017, 189, 1-10.	1.8	147
5	A review of SWAT applications, performance and future needs for simulation of hydro-climatic extremes. Advances in Water Resources, 2020, 143, 103662.	1.7	136
6	Impacts of DEM resolution, source, and resampling technique on SWAT-simulated streamflow. Applied Geography, 2015, 63, 357-368.	1.7	113
7	Pollutant source, ecological and human health risks assessment of heavy metals in soils from coal mining areas in Xinjiang, China. Environmental Research, 2021, 202, 111702.	3.7	104
8	Identification of hydrogeochemical processes controlling groundwater quality in Tripura, Northeast India using evaluation indices, GIS, and multivariate statistical methods. Environmental Earth Sciences, 2019, 78, 1.	1.3	86
9	A Review of SWAT Studies in Southeast Asia: Applications, Challenges and Future Directions. Water (Switzerland), 2019, 11, 914.	1.2	78
10	Impacts and uncertainties of climate change on streamflow of the Johor River Basin, Malaysia using a CMIP5 General Circulation Model ensemble. Journal of Water and Climate Change, 2014, 5, 676-695.	1.2	68
11	Evaluation of TRMM Product for Monitoring Drought in the Kelantan River Basin, Malaysia. Water (Switzerland), 2017, 9, 57.	1.2	64
12	Trace metals contamination in groundwater and implications on human health: comprehensive assessment using hydrogeochemical and geostatistical methods. Environmental Geochemistry and Health, 2020, 42, 3819-3839.	1.8	63
13	Impacts of land-use and climate variability on hydrological components in the Johor River basin, Malaysia. Hydrological Sciences Journal, 2015, , 1-17.	1.2	60
14	Functionalization of remote sensing and on-site data for simulating surface water dissolved oxygen: Development of hybrid tree-based artificial intelligence models. Marine Pollution Bulletin, 2021, 170, 112639.	2.3	58
15	Assessment of Three Long-Term Gridded Climate Products for Hydro-Climatic Simulations in Tropical River Basins. Water (Switzerland), 2017, 9, 229.	1.2	56
16	Hydro-Meteorological Assessment of Three GPM Satellite Precipitation Products in the Kelantan River Basin, Malaysia. Remote Sensing, 2018, 10, 1011.	1.8	53
17	Changes in precipitation extremes over the Kelantan River Basin, Malaysia. International Journal of Climatology, 2017, 37, 3780-3797.	1.5	49
18	Paddy, rice and food security in Malaysia: A review of climate change impacts. Cogent Social Sciences, 2020, 6, .	0.5	47

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19	A review of alternative climate products for SWAT modelling: Sources, assessment and future directions. Science of the Total Environment, 2021, 795, 148915.	3.9	41
20	Effect of DEM Resolution, Source, Resampling Technique and Area Threshold on SWAT Outputs. Water Resources Management, 2018, 32, 4591-4606.	1.9	40
21	Evaluation of Gridded Precipitation Datasets in Malaysia. Remote Sensing, 2020, 12, 613.	1.8	39
22	Analysis of Precipitation and Temperature Extremes over the Muda River Basin, Malaysia. Water (Switzerland), 2019, 11, 283.	1.2	38
23	Impact of Climate Change on Rice Yield in Malaysia: A Panel Data Analysis. Agriculture (Switzerland), 2021, 11, 569.	1.4	36
24	Evaluation of TMPA 3B43 and NCEP-CFSR precipitation products in drought monitoring over Singapore. International Journal of Remote Sensing, 2018, 39, 2089-2104.	1.3	34
25	Spatiotemporal analysis of hydro-meteorological drought in the Johor River Basin, Malaysia. Theoretical and Applied Climatology, 2019, 135, 825-837.	1.3	32
26	Effect of rainfall station density, distribution and missing values on SWAT outputs in tropical region. Journal of Hydrology, 2020, 584, 124660.	2.3	32
27	Social capital as a vital resource in flood disaster recovery in Malaysia. International Journal of Water Resources Development, 2019, 35, 619-637.	1.2	30
28	Future hydro-meteorological drought of the Johor River Basin, Malaysia, based on CORDEX-SEA projections. Hydrological Sciences Journal, 2019, 64, 921-933.	1.2	30
29	Nine-Year Systematic Evaluation of the GPM and TRMM Precipitation Products in the Shuaishui River Basin in East-Central China. Remote Sensing, 2020, 12, 1042.	1.8	29
30	Modelling Land Cover Changes in Peri-Urban Areas: A Case Study of George Town Conurbation, Malaysia. Land, 2020, 9, 373.	1.2	28
31	Changes in temperature extremes and their relationship with <scp>ENSO</scp> in Malaysia from 1985 to 2018. International Journal of Climatology, 2021, 41, E2564.	1.5	27
32	Impact of land-use/land-cover and landscape pattern on seasonal in-stream water quality in small watersheds. Journal of Cleaner Production, 2022, 357, 131907.	4.6	27
33	A framework for assessing the adequacy of Water Quality Index â€“ Quantifying parameter sensitivity and uncertainties in missing values distribution. Science of the Total Environment, 2021, 751, 141982.	3.9	25
34	Evaluation of the coordinated development of urbanization-resources-environment from the incremental perspective of Xinjiang, China. Journal of Cleaner Production, 2021, 325, 129309.	4.6	25
35	Hydrological Extremes and Responses to Climate Change in the Kelantan River Basin, Malaysia, Based on the CMIP6 HighResMIP Experiments. Water (Switzerland), 2021, 13, 1472.	1.2	24
36	Landscape and vegetation traits of urban green space can predict local surface temperature. Science of the Total Environment, 2022, 825, 154006.	3.9	21

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37	Future projections of Malaysia daily precipitation characteristics using bias correction technique. Atmospheric Research, 2020, 240, 104926.	1.8	19
38	Assessing the factors influencing water quality using environment water quality index and partial least squares structural equation model in the Ebinur Lake Watershed, Xinjiang, China. Environmental Science and Pollution Research, 2022, 29, 29033-29048.	2.7	19
39	Resilience of coastal agricultural systems in Bangladesh: Assessment for agroecosystem stewardship strategies. Ecological Indicators, 2019, 106, 105525.	2.6	17
40	SouthEast Asia HydrO-meteorological droughT (SEA-HOT) framework: A case study in the Kelantan River Basin, Malaysia. Atmospheric Research, 2020, 246, 105155.	1.8	17
41	Integrating an hourly weather generator with an hourly rainfall SWAT model for climate change impact assessment in the Ru River Basin, China. Atmospheric Research, 2020, 244, 105062.	1.8	16
42	Correcting the bias of daily satellite precipitation estimates in tropical regions using deep neural network. Journal of Hydrology, 2022, 608, 127656.	2.3	16
43	Feasibility of the Spatiotemporal Fusion Model in Monitoring Ebinur Lakeâ€™s Suspended Particulate Matter under the Missing-Data Scenario. Remote Sensing, 2021, 13, 3952.	1.8	15
44	Monsoonal precipitation over Peninsular Malaysia in the CMIP6 HighResMIP experiments: the role of model resolution. Climate Dynamics, 2022, 58, 2783-2805.	1.7	15
45	Improved Na+ estimation from hyperspectral data of saline vegetation by machine learning. Computers and Electronics in Agriculture, 2022, 196, 106862.	3.7	15
46	Drought Variability and Characteristics in the Muda River Basin of Malaysia from 1985 to 2019. Atmosphere, 2021, 12, 1210.	1.0	14
47	Analysis of meteorological dryness/wetness features for spring wheat production in the Ili River basin, China. International Journal of Biometeorology, 2018, 62, 2197-2204.	1.3	12
48	Assessment of TRMM product for precipitation extreme measurement over the Muda River Basin, Malaysia. HydroResearch, 2019, 2, 69-75.	1.7	12
49	Assessing the Effectiveness of Mitigation Strategies for Flood Risk Reduction in the Segamat River Basin, Malaysia. Sustainability, 2021, 13, 3286.	1.6	12
50	Climatology of Borneo Vortices in the HadGEM3-GC3.1 General Circulation Model. Journal of Climate, 2021, 34, 3401-3419.	1.2	12
51	PREDICTION OF FUTURE LAND USE LAND COVER CHANGES OF KELANTAN, MALAYSIA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-4/W16, 379-384.	0.2	12
52	Sustainable urban drainage as a viable measure of coping with heat and floods due to climate change. IOP Conference Series: Earth and Environmental Science, 2019, 257, 012013.	0.2	11
53	Comparison of NCEP-CFSR and CMADS for Hydrological Modelling Using SWAT in the Muda River Basin, Malaysia. Water (Switzerland), 2020, 12, 3288.	1.2	11
54	GIS-Based Multi-Criteria Evaluation for Potential Inland Aquaculture Site Selection in the George Town Conurbation, Malaysia. Land, 2021, 10, 1174.	1.2	11

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55	Designing adaptation pathways for flood-affected households in Bangladesh. Environment, Development and Sustainability, 2021, 23, 5386-5410.	2.7	10
56	Interrelationships between Land Use Land Cover (LULC) and Human Thermal Comfort (HTC): A Comparative Analysis of Different Spatial Settings. Sustainability, 2021, 13, 382.	1.6	10
57	Coupled analysis of new urbanization quality (NUQ) and eco-environmental carrying capacity (EECC) of prefecture-level and above cities in China during 2003â€“2016. Environment, Development and Sustainability, 2022, 24, 8008-8038.	2.7	10
58	Urban Expansion Analysis using Landsat Images in Penang, Malaysia. Sains Malaysiana, 2019, 48, 2307-2315.	0.3	10
59	Quantifying land use heterogeneity on drought conditions for mitigation strategies development in the Dongjiang River Basin, China. Ecological Indicators, 2021, 129, 107945.	2.6	9
60	A comparative study of different imputation methods for daily rainfall data in east-coast Peninsular Malaysia. Bulletin of Electrical Engineering and Informatics, 2020, 9, .	0.6	9
61	Extreme Precipitation and Floods: Monitoring, Modelling, and Forecasting. Advances in Meteorology, 2017, 2017, 1-3.	0.6	8
62	Comparison of Landsat 8, Sentinel-2 and spectral indices combinations for Google Earth Engine-based land use mapping in the Johor River Basin, Malaysia. Geografia: Malaysian Journal of Society and Space, 2021, 17, .	0.1	8
63	Tropical drought patterns and their linkages to largeâ€scale climate variability over Peninsular Malaysia. Hydrological Processes, 2021, 35, e14356.	1.1	8
64	Predictive Modelling of Statistical Downscaling Based on Hybrid Machine Learning Model for Daily Rainfall in East-Coast Peninsular Malaysia. Symmetry, 2022, 14, 927.	1.1	8
65	Rapid Extreme Tropical Precipitation and Flood Inundation Mapping Framework (RETRACE): Initial Testing for the 2021â€“2022 Malaysia Flood. ISPRS International Journal of Geo-Information, 2022, 11, 378.	1.4	8
66	Integrating Structural and Non-structural Flood Management Measures for Greater Effectiveness in Flood Loss Reduction in the Kelantan River Basin, Malaysia. Lecture Notes in Civil Engineering, 2020, , 1151-1162.	0.3	7
67	Resolution Dependence of Regional Hydro-Climatic Projection: A Case-Study for the Johor River Basin, Malaysia. Water (Switzerland), 2021, 13, 3158.	1.2	7
68	Spatio-temporal analysis of precipitation, temperature and drought from 1985 to 2020 in Penang, Malaysia. Water Science and Technology: Water Supply, 2022, 22, 4757-4768.	1.0	7
69	Impact of temporal rainfall resolution on daily streamflow simulations in a large-sized river basin. Hydrological Sciences Journal, 2020, 65, 2630-2645.	1.2	6
70	Bayesian Regularized Neural Network Model Development for Predicting Daily Rainfall from Sea Level Pressure Data: Investigation on Solving Complex Hydrology Problem. Complexity, 2021, 2021, 1-14.	0.9	6
71	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.	1.0	6
72	Streamflow modelling by remote sensing: A contribution to digital Earth. IOP Conference Series: Earth and Environmental Science, 2014, 18, 012060.	0.2	5

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73	Short-Term Forecasting of Daily Confirmed COVID-19 Cases in Malaysia Using RF-SSA Model. Frontiers in Public Health, 2021, 9, 604093.	1.3	5
74	Statistical Modeling of RPCA-FCM in Spatiotemporal Rainfall Patterns Recognition. Atmosphere, 2022, 13, 145.	1.0	5
75	A framework to evaluate the accessibility, visibility, and intelligibility of green-blue spaces (GBSs) related to pedestrian movement. Urban Forestry and Urban Greening, 2022, 69, 127494.	2.3	5
76	Integrating manual calibration and auto-calibration of SWAT model in Muar Watershed, Johor. , 2016, , .		4
77	Prediction of Epidemic Trends in COVID-19 with Mann-Kendall and Recurrent Forecasting-Singular Spectrum Analysis. Sains Malaysiana, 2021, 50, 1131-1142.	0.3	4
78	Evaluation of TRMM 3B42V7 product on extreme precipitation measurements over peninsular Malaysia. , 2017, , .		4
79	URBANIZATION AND LAND USE CHANGES IN RURAL TOWN: GUAR CEMPEDAK, KEDAH. Planning Malaysia, 0, 19, .	0.2	4
80	Spatial-temporal characteristics of ecosystem health in Central Asia. International Journal of Applied Earth Observation and Geoinformation, 2021, 105, 102635.	1.4	4
81	Spatial Torrential Rainfall Modelling in Pattern Analysis Based on Robust PCA Approach. Polish Journal of Environmental Studies, 2021, 30, 3221-3230.	0.6	3
82	Analysis of ozone observation at atmospheric monitoring network station using Brewer ozone spectrophotometer. , 2017, , .		3
83	Spatiotemporal Changes in Vegetation Net Primary Productivity and Its Responses to Climatic Factors in Jiangsu Province, Eastern China. Sains Malaysiana, 2019, 48, 2317-2324.	0.3	2
84	Predictive Modelling of Covid-19 Cases in Malaysia based on Recurrent Forecasting-Singular Spectrum Analysis Approach. International Journal of Advanced Trends in Computer Science and Engineering, 2020, 9, 175-183.	0.6	2
85	Spatial and Non-Spatial Factors Influencing Willingness to Pay (WTP) for Urban Green Spaces (UGS): A Review. Journal of Sustainable Development, 2020, 13, 130.	0.1	2
86	Integrating the Budyko framework with the emerging hot spot analysis in local land use planning for regulating surface evapotranspiration ratio. Journal of Environmental Management, 2022, 316, 115232.	3.8	2
87	Free internet datasets for streamflow modelling using SWAT in the Johor river basin, Malaysia. IOP Conference Series: Earth and Environmental Science, 2014, 18, 012193.	0.2	1
88	Daya tahan komuniti menghadapi banjir 2014: Kajian kes di Kampung Manek Urai Lama, Kuala Krai, Kelantan. Geografia: Malaysian Journal of Society and Space, 2021, 17, .	0.1	1
89	Assessment of TRMM 3B43 product for drought monitoring in Singapore. , 2017, , .		1
90	Projected near-term changes in monsoon precipitation over Peninsular Malaysia in the HighResMIP multi-model ensembles. Climate Dynamics, 2023, 60, 1151-1171.	1.7	1

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91	Regionalization of Rainfall Regimes Using Hybrid RF-Bs Couple with Multivariate Approaches. ISPRS International Journal of Geo-Information, 2021, 10, 689.	1.4	0
92	Determinants of vegetable growersâ€™ knowledge and willingness to adopt botanical pesticides. International Journal of Pest Management, 0, , 1-10.	0.9	0