Shie-Yui Liong

List of Publications by Year
in descending order

47 papers	2,214 citations	279487 23 h-index	288905 40 g-index
50 all docs	50 docs citations	50 times ranked	2282 citing authors

#	Article	IF	Citations
1	An ANN application for water quality forecasting. Marine Pollution Bulletin, 2008, 56, 1586-1597.	2.3	391
2	FLOOD STAGE FORECASTING WITH SUPPORT VECTOR MACHINES. Journal of the American Water Resources Association, 2002, 38, 173-186.	1.0	263
3	River Stage Forecasting in Bangladesh: Neural Network Approach. Journal of Computing in Civil Engineering, 2000, 14, 1-8.	2.5	176
4	Chaotic time series prediction with a global model: Artificial neural network. Journal of Hydrology, 2006, 323, 92-105.	2.3	149
5	EC-SVM approach for real-time hydrologic forecasting. Journal of Hydroinformatics, 2004, 6, 209-223.	1.1	135
6	Singapore Rainfall Behavior: Chaotic?. Journal of Hydrologic Engineering - ASCE, 1999, 4, 38-48.	0.8	99
7	Forecasting of hydrologic time series with ridge regression in feature space. Journal of Hydrology, 2007, 332, 290-302.	2.3	95
8	Peak-Flow Forecasting with Genetic Algorithm and SWMM. Journal of Hydraulic Engineering, 1995, 121, 613-617.	0.7	76
9	Alternative Decision Making in Water Distribution Network with NSGA-II. Journal of Water Resources Planning and Management - ASCE, 2006, 132, 122-126.	1.3	67
10	Technical note: Application of artificial neural networks in groundwater table forecasting â€" a case study in a Singapore swamp forest. Hydrology and Earth System Sciences, 2016, 20, 1405-1412.	1.9	59
11	Derivation of Pareto Front with Genetic Algorithm and Neural Network. Journal of Hydrologic Engineering - ASCE, 2001, 6, 52-61.	0.8	51
12	Evaluations of NASA NEX-GDDP data over Southeast Asia: present and future climates. Climatic Change, 2018, 148, 503-518.	1.7	51
13	Uncertainties of gridded precipitation observations in characterizing spatioâ€"temporal drought and wetness over Vietnam. International Journal of Climatology, 2018, 38, 2067-2081.	1.5	47
14	Investigating drought over the Central Highland, Vietnam, using regional climate models. Journal of Hydrology, 2015, 526, 265-273.	2.3	43
15	Regional frequency analysis of extreme rainfall events in Jakarta. Natural Hazards, 2015, 75, 1075-1104.	1.6	39
16	Assessment of CMIP5 historical simulations of rainfall over Southeast Asia. Theoretical and Applied Climatology, 2018, 132, 989-1002.	1.3	38
17	An ecohydrological model for studying groundwaterâ€"vegetation interactions in wetlands. Journal of Hydrology, 2011, 409, 291-304.	2.3	37
18	How to construct future IDF curves, under changing climate, for sites with scarce rainfall records?. Hydrological Processes, 2014, 28, 3276-3287.	1.1	34

#	Article	IF	Citations
19	Artificial neural network for tsunami forecasting. Journal of Asian Earth Sciences, 2009, 36, 29-37.	1.0	33
20	Spatial connections in regional climate model rainfall outputs at different temporal scales: Application of network theory. Journal of Hydrology, 2018, 556, 1232-1243.	2.3	33
21	An innovative approach to improve SRTM DEM using multispectral imagery and artificial neural network. Journal of Advances in Modeling Earth Systems, 2016, 8, 691-702.	1.3	30
22	Superior Exploration–Exploitation Balance in Shuffled Complex Evolution. Journal of Hydraulic Engineering, 2004, 130, 1202-1205.	0.7	26
23	A deterministic hydrological approach to estimate climate change impact on river flow: Vu Gia–Thu Bon catchment, Vietnam. Journal of Hydro-Environment Research, 2016, 11, 59-74.	1.0	25
24	Investigating the relationship between Aerosol Optical Depth and Precipitation over Southeast Asia with Relative Humidity as an influencing factor. Scientific Reports, 2017, 7, 13395.	1.6	25
25	Assessment of future stream flow over the Sesan catchment of the Lower Mekong Basin in Vietnam. Hydrological Processes, 2012, 26, 3661-3668.	1.1	23
26	Simple-Yet-Effective SRTM DEM Improvement Scheme for Dense Urban Cities Using ANN and Remote Sensing Data: Application to Flood Modeling. Water (Switzerland), 2020, 12, 816.	1.2	22
27	Enhancement of chaotic hydrological time series prediction with real-time noise reduction using Extended Kalman Filter. Journal of Hydrology, 2018, 565, 737-746.	2.3	18
28	Overcoming data scarcity in flood hazard assessment using remote sensing and artificial neural network. Smart Water, 2019, 4, .	3.1	18
29	Future changes in rice yields over the Mekong River Delta due to climate change—Alarming or alerting?. Theoretical and Applied Climatology, 2019, 137, 545-555.	1.3	17
30	Catchment Calibration Using Fractional-Factorial and Central-Composite-Designs-Based Response Surface. Journal of Hydraulic Engineering, 1995, 121, 507-510.	0.7	15
31	Comment on "Nonlinear analysis of river flow time sequences" by Amilcare Porporato and Luca Ridolfi. Water Resources Research, 1999, 35, 895-897.	1.7	14
32	Are satellite products good proxies for gauge precipitation over Singapore?. Theoretical and Applied Climatology, 2018, 132, 921-932.	1.3	14
33	A method of estimating optimal catchment model parameters. Water Resources Research, 1993, 29, 3049-3058.	1.7	11
34	Using a regional climate model to develop index-based drought insurance for sovereign disaster risk transfer. Agricultural Finance Review, 2021, 81, 151-168.	0.7	10
35	Improving numerical forecast accuracy with ensemble Kalman filter and chaos theory: Case study on Ciliwung river model. Journal of Hydrology, 2014, 512, 540-548.	2.3	7
36	Satellite DEM Improvement Using Multispectral Imagery and an Artificial Neural Network. Water (Switzerland), 2021, 13, 1551.	1.2	6

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37	Rainfall intensity prediction by a spatial-temporal ensemble. , 2008, , .		4
38	An approach for modelling the effects of changes in hydrological environmental variables on tropical primary forest vegetation. Journal of Hydrology, 2013, 505, 102-112.	2.3	4
39	Flood Modelling Framework for Kuching City, Malaysia: Overcoming the Lack of Data. Springer Water, 2018, , 559-568.	0.2	4
40	DERIVATION OF EFFECTIVE AND EFFICIENT DATA SET FOR TRAINING FORECASTING MODEL. , 2002, , .		2
41	A COMPARISON OF SUPPORT VECTOR MACHINES AND ARTIFICIAL NEURAL NETWORKS IN HYDROLOGICAL/METEOROLOGICAL TIME SERIES PREDICTION. , 0, , 91-96.		1
42	A simple clustering technique to extract subsets of data for function approximation. Journal of Hydroinformatics, 2015, 17, 719-732.	1.1	1
43	Assessment of Future Rainfall Change and Its Impact on Water Resources in the Mekong River 3S Sub-Basins. , 2017, , .		0
44	TOWARDS EFFICIENT MULTIPURPOSE RESERVOIR OPERATION: A NEW APPROACH. , 2002, , .		0
45	AN APPROACH COMBINING CHAOS-THEORETIC APPROACH AND SUPPORT VECTOR MACHINE: CASE STUDY IN HYDROLOGIC FORECASTING. , 2002, , .		0
46	SEA: A ROBUST EVOLUTIONARY ALGORITHM FOR RAINFALL-RUNOFF MODEL CALIBRATION. , 2002, , .		0
47	An Innovative DEM Improvement Technique for Highly Dense Urban Cities. Springer Water, 2020, , 229-240.	0.2	0