Lifeng Wu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2974566/publications.pdf

Version: 2024-02-01

64 papers	4,053 citations	126858 33 h-index	118793 62 g-index
64 all docs	64 docs citations	64 times ranked	2586 citing authors

#	Article	IF	Citations
1	Comparison of Support Vector Machine and Extreme Gradient Boosting for predicting daily global solar radiation using temperature and precipitation in humid subtropical climates: A case study in China. Energy Conversion and Management, 2018, 164, 102-111.	4.4	396
2	Evaluation of SVM, ELM and four tree-based ensemble models for predicting daily reference evapotranspiration using limited meteorological data in different climates of China. Agricultural and Forest Meteorology, 2018, 263, 225-241.	1.9	327
3	Evaluation of CatBoost method for prediction of reference evapotranspiration in humid regions. Journal of Hydrology, 2019, 574, 1029-1041.	2.3	280
4	Empirical and machine learning models for predicting daily global solar radiation from sunshine duration: A review and case study in China. Renewable and Sustainable Energy Reviews, 2019, 100, 186-212.	8.2	207
5	Light Gradient Boosting Machine: An efficient soft computing model for estimating daily reference evapotranspiration with local and external meteorological data. Agricultural Water Management, 2019, 225, 105758.	2.4	160
6	Coupling effects of water and fertilizer on yield, water and fertilizer use efficiency of drip-fertigated cotton in northern Xinjiang, China. Field Crops Research, 2018, 219, 169-179.	2.3	157
7	Climate change effects on reference crop evapotranspiration across different climatic zones of China during 1956â€“2015. Journal of Hydrology, 2016, 542, 923-937.	2.3	143
8	Hybrid support vector machines with heuristic algorithms for prediction of daily diffuse solar radiation in air-polluted regions. Renewable Energy, 2020, 145, 2034-2045.	4.3	129
9	Evaluation and development of empirical models for estimating daily and monthly mean daily diffuse horizontal solar radiation for different climatic regions of China. Renewable and Sustainable Energy Reviews, 2019, 105, 168-186.	8.2	119
10	New combined models for estimating daily global solar radiation based on sunshine duration in humid regions: A case study in South China. Energy Conversion and Management, 2018, 156, 618-625.	4.4	116
11	Evaluation and development of temperature-based empirical models for estimating daily global solar radiation in humid regions. Energy, 2018, 144, 903-914.	4.5	115
12	Optimization of drip irrigation and fertilization regimes for high grain yield, crop water productivity and economic benefits of spring maize in Northwest China. Agricultural Water Management, 2020, 230, 105986.	2.4	102
13	Estimation of daily maize transpiration using support vector machines, extreme gradient boosting, artificial and deep neural networks models. Agricultural Water Management, 2021, 245, 106547.	2.4	100
14	Daily reference evapotranspiration prediction based on hybridized extreme learning machine model with bio-inspired optimization algorithms: Application in contrasting climates of China. Journal of Hydrology, 2019, 577, 123960.	2.3	99
15	Potential of kernel-based nonlinear extension of Arps decline model and gradient boosting with categorical features support for predicting daily global solar radiation in humid regions. Energy Conversion and Management, 2019, 183, 280-295.	4.4	95
16	Hybrid extreme learning machine with meta-heuristic algorithms for monthly pan evaporation prediction. Computers and Electronics in Agriculture, 2020, 168, 105115.	3.7	89
17	Daily pan evaporation modeling from local and cross-station data using three tree-based machine learning models. Journal of Hydrology, 2018, 566, 668-684.	2.3	86
18	Multi-objective optimization of water and fertilizer management for potato production in sandy areas of northern China based on TOPSIS. Field Crops Research, 2019, 240, 55-68.	2.3	85

#	Article	IF	Citations
19	Evaluating the effect of air pollution on global and diffuse solar radiation prediction using support vector machine modeling based on sunshine duration and air temperature. Renewable and Sustainable Energy Reviews, 2018, 94, 732-747.	8.2	83
20	Optimal drip fertigation management improves yield, quality, water and nitrogen use efficiency of greenhouse cucumber. Scientia Horticulturae, 2019, 243, 357-366.	1.7	73
21	Comparison of support vector regression and extreme gradient boosting for decomposition-based data-driven 10-day streamflow forecasting. Journal of Hydrology, 2020, 582, 124293.	2.3	70
22	Machine learning models for the estimation of monthly mean daily reference evapotranspiration based on cross-station and synthetic data. Hydrology Research, 2019, 50, 1730-1750.	1.1	61
23	Comparison of neuron-based, kernel-based, tree-based and curve-based machine learning models for predicting daily reference evapotranspiration. PLoS ONE, 2019, 14, e0217520.	1.1	58
24	Predicting daily diffuse horizontal solar radiation in various climatic regions of China using support vector machine and tree-based soft computing models with local and extrinsic climatic data. Journal of Cleaner Production, 2020, 248, 119264.	4.6	57
25	Enhanced comprehensive learning particle swarm optimization. Applied Mathematics and Computation, 2014, 242, 265-276.	1.4	53
26	A data-driven model based on Fourier transform and support vector regression for monthly reservoir inflow forecasting. Journal of Hydro-Environment Research, 2018, 18, 12-24.	1.0	52
27	Progress of ethylene action mechanism and its application on plant type formation in crops. Saudi Journal of Biological Sciences, 2020, 27, 1667-1673.	1.8	49
28	A novel hybrid WOA-XGB model for estimating daily reference evapotranspiration using local and external meteorological data: Applications in arid and humid regions of China. Agricultural Water Management, 2021, 244, 106594.	2.4	45
29	Optimal operation of multi-reservoir hydropower systems using enhanced comprehensive learning particle swarm optimization. Journal of Hydro-Environment Research, 2016, 10, 50-63.	1.0	43
30	A novel kernel extreme learning machine model coupled with K-means clustering and firefly algorithm for estimating monthly reference evapotranspiration in parallel computation. Agricultural Water Management, 2021, 245, 106624.	2.4	43
31	Estimation of daily dew point temperature by using bat algorithm optimization based extreme learning machine. Applied Thermal Engineering, 2020, 165, 114569.	3.0	40
32	Dynamic change and accumulation of grain macronutrient (N, P and K) concentrations in winter wheat under different drip fertigation regimes. Field Crops Research, 2020, 250, 107767.	2.3	40
33	Coupling a Bat Algorithm with XGBoost to Estimate Reference Evapotranspiration in the Arid and Semiarid Regions of China. Advances in Meteorology, 2019, 2019, 1-16.	0.6	39
34	Optimization of water and fertilizer management improves yield, water, nitrogen, phosphorus and potassium uptake and use efficiency of cotton under drip fertigation. Agricultural Water Management, 2021, 245, 106662.	2.4	38
35	Evaluation of Drip Fertigation Uniformity Affected by Injector Type, Pressure Difference and Lateral Layout. Irrigation and Drainage, 2017, 66, 520-529.	0.8	33
36	Combined effects of irrigation level and fertilization practice on yield, economic benefit and water-nitrogen use efficiency of drip-irrigated greenhouse tomato. Agricultural Water Management, 2022, 262, 107401.	2.4	31

#	Article	IF	Citations
37	Peach yield and fruit quality is maintained under mild deficit irrigation in semi-arid China. Journal of Integrative Agriculture, 2017, 16, 1173-1183.	1.7	29
38	A sustainable strategy of managing irrigation based on water productivity and residual soil nitrate in a no-tillage maize system. Journal of Cleaner Production, 2020, 262, 121279.	4.6	29
39	Estimating the Pan Evaporation in Northwest China by Coupling CatBoost with Bat Algorithm. Water (Switzerland), 2021, 13, 256.	1.2	28
40	Medium-range forecasting of daily reference evapotranspiration across China using numerical weather prediction outputs downscaled by extreme gradient boosting. Journal of Hydrology, 2021, 601, 126664.	2.3	26
41	Estimation of rainfed maize transpiration under various mulching methods using modified Jarvis-Stewart model and hybrid support vector machine model with whale optimization algorithm. Agricultural Water Management, 2021, 249, 106799.	2.4	25
42	Comparison of four bio-inspired algorithms to optimize KNEA for predicting monthly reference evapotranspiration in different climate zones of China. Computers and Electronics in Agriculture, 2021, 186, 106211.	3.7	24
43	Chemical and hydraulic signals regulate stomatal behavior and photosynthetic activity in maize during progressive drought. Acta Physiologiae Plantarum, 2017, 39, 1.	1.0	17
44	Modeling daily global solar radiation using only temperature data: Past, development, and future. Renewable and Sustainable Energy Reviews, 2022, 163, 112511.	8.2	17
45	Optimization of drip irrigation and fertilization regimes to enhance winter wheat grain yield by improving post-anthesis dry matter accumulation and translocation in northwest China. Agricultural Water Management, 2022, 271, 107782.	2.4	16
46	Simulating the Leaf Area Index of Rice from Multispectral Images. Remote Sensing, 2021, 13, 3663.	1.8	14
47	Interactive Effects of Water and Fertilizer on Yield, Soil Water and Nitrate Dynamics of Young Apple Tree in Semiarid Region of Northwest China. Agronomy, 2019, 9, 360.	1.3	13
48	Effect of Irrigation Level and Irrigation Frequency on the Growth of Mini Chinese Cabbage and Residual Soil Nitrate Nitrogen. Sustainability, 2019, 11, 111.	1.6	13
49	Simulation of dew point temperature in different time scales based on grasshopper algorithm optimized extreme gradient boosting. Journal of Hydrology, 2022, 606, 127452.	2.3	13
50	Multi-Objective Sustainable Operation of the Three Gorges Cascaded Hydropower System Using Multi-Swarm Comprehensive Learning Particle Swarm Optimization. Energies, 2016, 9, 438.	1.6	12
51	Time-delayed machine learning models for estimating groundwater depth in the Hetao Irrigation District, China. Agricultural Water Management, 2021, 255, 107032.	2.4	10
52	Source-sink relationship and yield stability of two maize cultivars in response to water and fertilizer inputs in northwest China. Agricultural Water Management, 2022, 262, 107332.	2.4	9
53	Quantifying grain yield, protein, nutrient uptake and utilization of winter wheat under various drip fertigation regimes. Agricultural Water Management, 2022, 261, 107380.	2.4	8
54	Simulation of Daily Diffuse Solar Radiation Based on Three Machine Learning Models. CMES - Computer Modeling in Engineering and Sciences, 2020, 123, 49-73.	0.8	7

#	Article	IF	Citations
55	Quantifying nutrient stoichiometry and radiation use efficiency of two maize cultivars under various water and fertilizer management practices in northwest China. Agricultural Water Management, 2022, 271, 107772.	2.4	7
56	Splitting and Length of Years for Improving Tree-Based Models to Predict Reference Crop Evapotranspiration in the Humid Regions of China. Water (Switzerland), 2021, 13, 3478.	1.2	5
57	Comparison of machine learning and dynamic models for predicting actual vapour pressure when psychrometric data are unavailable. Journal of Hydrology, 2022, 610, 127989.	2.3	5
58	Assessment of Daily of Reference Evapotranspiration Using CLDAS Product in Different Climate Regions of China. Water (Switzerland), 2022, 14, 1744.	1.2	4
59	Improvement in Solar-Radiation Forecasting Based on Evolutionary KNEA Method and Numerical Weather Prediction. Sustainability, 2022, 14, 6824.	1.6	4
60	Modelling Soil Temperature by Tree-Based Machine Learning Methods in Different Climatic Regions of China. Applied Sciences (Switzerland), 2022, 12, 5088.	1.3	2
61	Predicting the concentration of indoor culturable fungi using a kernel-based extreme learning machine (K-ELM). International Journal of Environmental Health Research, 2020, 30, 344-356.	1.3	1
62	A study of the conversion of different evaporation pans in South China based on the extreme learning machine model. Hydrological Sciences Journal, 2021, 66, 2357-2381.	1.2	1
63	Potential of ANN for Prolonging Remote Sensing-Based Soil Moisture Products for Long-term Time Series Analysis. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	1
64	Research on network and information security in Colleges and Universities. , 2019, , .		0