Lifeng Wu

List of Publications by Citations

61 papers	2,196 citations	28 h-index	46 g-index
64 ext. papers	3,038 ext. citations	5.8 avg, IF	5.78 L-index

#	Paper	IF	Citations
61	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	10.6	225
60	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	5.8	176
59	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	16.2	135
58	Evaluation of CatBoost method for prediction of reference evapotranspiration in humid regions. *Journal of Hydrology*, **2019**, 574, 1029-1041	6	108
57	Climate change effects on reference crop evapotranspiration across different climatic zones of China during 1956–2015. *Journal of Hydrology*, **2016**, 542, 923-937	6	96
56	Evaluation and development of temperature-based empirical models for estimating daily global solar radiation in humid regions. *Energy*, **2018**, 144, 903-914	7.9	88
55	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	16.2	87
54	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	5.5	86
53	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	10.6	84
52	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	10.6	80
51	Hybrid support vector machines with heuristic algorithms for prediction of daily diffuse solar radiation in air-polluted regions. *Renewable Energy*, **2020**, 145, 2034-2045	8.1	72
50	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	5.9	61
49	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	5.9	56
48	Daily pan evaporation modeling from local and cross-station data using three tree-based machine learning models. *Journal of Hydrology*, **2018**, 566, 668-684	6	56
47	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	6	55
46	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	16.2	54
45	Hybrid extreme learning machine with meta-heuristic algorithms for monthly pan evaporation prediction. *Computers and Electronics in Agriculture*, **2020**, 168, 105115	6.5	45

44	Progress of ethylene action mechanism and its application on plant type formation in crops. *Saudi Journal of Biological Sciences*, **2020**, 27, 1667-1673	4	42
43	Enhanced comprehensive learning particle swarm optimization. *Applied Mathematics and Computation*, **2014**, 242, 265-276	2.7	42
42	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	5.5	39
41	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	2.3	38
40	Estimation of daily maize transpiration using support vector machines, extreme gradient boosting, artificial and deep neural networks models. *Agricultural Water Management*, **2021**, 245, 106547	5.9	38
39	Optimal drip fertigation management improves yield, quality, water and nitrogen use efficiency of greenhouse cucumber. *Scientia Horticulturae*, **2019**, 243, 357-366	4.1	36
38	Optimal operation of multi-reservoir hydropower systems using enhanced comprehensive learning particle swarm optimization. *Journal of Hydro-Environment Research*, **2016**, 10, 50-63	2.3	35
37	Comparison of support vector regression and extreme gradient boosting for decomposition-based data-driven 10-day streamflow forecasting. *Journal of Hydrology*, **2020**, 582, 124293	6	32
36	Comparison of neuron-based, kernel-based, tree-based and curve-based machine learning models for predicting daily reference evapotranspiration. *PLoS ONE*, **2019**, 14, e0217520	3.7	31
35	Machine learning models for the estimation of monthly mean daily reference evapotranspiration based on cross-station and synthetic data **2019**, 50, 1730-1750		30
34	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	10.3	30
33	Evaluation of Drip Fertigation Uniformity Affected by Injector Type, Pressure Difference and Lateral Layout. *Irrigation and Drainage*, **2017**, 66, 520-529	1.1	27
32	Estimation of daily dew point temperature by using bat algorithm optimization based extreme learning machine. *Applied Thermal Engineering*, **2020**, 165, 114569	5.8	21
31	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	5.9	20
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	5.9	19
29	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	5.5	18
28	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	1.7	16
27	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	10.3	15

26	Peach yield and fruit quality is maintained under mild deficit irrigation in semi-arid China. *Journal of Integrative Agriculture*, **2017**, 16, 1173-1183	3.2	14
25	Chemical and hydraulic signals regulate stomatal behavior and photosynthetic activity in maize during progressive drought. *Acta Physiologiae Plantarum*, **2017**, 39, 1	2.6	12
24	Multi-Objective Sustainable Operation of the Three Gorges Cascaded Hydropower System Using Multi-Swarm Comprehensive Learning Particle Swarm Optimization. *Energies*, **2016**, 9, 438	3.1	10
23	Estimating the Pan Evaporation in Northwest China by Coupling CatBoost with Bat Algorithm. *Water (Switzerland)*, **2021**, 13, 256	3	8
22	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	6.5	8
21	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	3.6	7
20	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	5.9	7
19	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	6	7
18	Effect of Irrigation Level and Irrigation Frequency on the Growth of Mini Chinese Cabbage and Residual Soil Nitrate Nitrogen. *Sustainability*, **2019**, 11, 111	3.6	6
17	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	5.9	5
16	Simulation of Daily Diffuse Solar Radiation Based on Three Machine Learning Models. *CMES - Computer Modeling in Engineering and Sciences*, **2020**, 123, 49-73	1.7	4
15	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	5.9	3
14	Modeling daily global solar radiation using only temperature data: Past, development, and future. *Renewable and Sustainable Energy Reviews*, **2022**, 163, 112511	16.2	3
13	Time-delayed machine learning models for estimating groundwater depth in the Hetao Irrigation District, China. *Agricultural Water Management*, **2021**, 255, 107032	5.9	2
12	Simulation of dew point temperature in different time scales based on grasshopper algorithm optimized extreme gradient boosting. *Journal of Hydrology*, **2022**, 606, 127452	6	1
11	A study of the conversion of different evaporation pans in South China based on the extreme learning machine model. *Hydrological Sciences Journal*,	3.5	1
10	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	3.6	1
9	Simulating the Leaf Area Index of Rice from Multispectral Images. *Remote Sensing*, **2021**, 13, 3663	5	1

List of Publications

8	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	3	1
7	Improvement in Solar-Radiation Forecasting Based on Evolutionary KNEA Method and Numerical Weather Prediction. *Sustainability*, **2022**, 14, 6824	3.6	1
6	Source-sink relationship and yield stability of two maize cultivars in response to water and fertilizer inputs in northwest China. *Agricultural Water Management*, **2021**, 107332	5.9	0
5	Quantifying grain yield, protein, nutrient uptake and utilization of winter wheat under various drip fertigation regimes. *Agricultural Water Management*, **2022**, 261, 107380	5.9	0
4	Modelling Soil Temperature by Tree-Based Machine Learning Methods in Different Climatic Regions of China. *Applied Sciences (Switzerland)*, **2022**, 12, 5088	2.6	0
3	Assessment of Daily of Reference Evapotranspiration Using CLDAS Product in Different Climate Regions of China. *Water (Switzerland)*, **2022**, 14, 1744	3	0
2	Comparison of machine learning and dynamic models for predicting actual vapour pressure when psychrometric data are unavailable. *Journal of Hydrology*, **2022**, 610, 127989	6	0
1	Potential of ANN for Prolonging Remote Sensing-based Soil Moisture Products for Long-term Time Series Analysis. *IEEE Geoscience and Remote Sensing Letters*, **2022**, 1-1	4.1	