Kwok Wing Chau

List of Publications by Citations

300 papers	16,122 citations	72 h-index	117 g-index
315 ext. papers	18,835 ext. citations	4.3 avg, IF	7.61 L-index

#	Paper	IF	Citations
300	A comparison of performance of several artificial intelligence methods for forecasting monthly discharge time series. *Journal of Hydrology*, **2009**, 374, 294-306	6	539
299	Using support vector machines for long-term discharge prediction. *Hydrological Sciences Journal*, **2006**, 51, 599-612	3.5	403
298	Flood Prediction Using Machine Learning Models: Literature Review. *Water (Switzerland)*, **2018**, 10, 15363		376
297	Improving Forecasting Accuracy of Annual Runoff Time Series Using ARIMA Based on EEMD Decomposition. *Water Resources Management*, **2015**, 29, 2655-2675	3.7	337
296	An enhanced extreme learning machine model for river flow forecasting: State-of-the-art, practical applications in water resource engineering area and future research direction. *Journal of Hydrology*, **2019**, 569, 387-408	6	324
295	Predicting monthly streamflow using data-driven models coupled with data-preprocessing techniques. *Water Resources Research*, **2009**, 45,	5.4	281
294	Artificial neural network simulation of hourly groundwater levels in a coastal aquifer system of the Venice lagoon. *Engineering Applications of Artificial Intelligence*, **2012**, 25, 1670-1676	7.2	275
293	Rainfall–runoff modeling using artificial neural network coupled with singular spectrum analysis. *Journal of Hydrology*, **2011**, 399, 394-409	6	266
292	Neural network and genetic programming for modelling coastal algal blooms. *International Journal of Environment and Pollution*, **2006**, 28, 223	0.7	266
291	Combining a fuzzy optimal model with a genetic algorithm to solve multi-objective rainfall–runoff model calibration. *Journal of Hydrology*, **2002**, 268, 72-86	6	251
290	Prediction of rainfall time series using modular artificial neural networks coupled with data-preprocessing techniques. *Journal of Hydrology*, **2010**, 389, 146-167	6	246
289	Particle swarm optimization training algorithm for ANNs in stage prediction of Shing Mun River. *Journal of Hydrology*, **2006**, 329, 363-367	6	243
288	Methods to improve neural network performance in daily flows prediction. *Journal of Hydrology*, **2009**, 372, 80-93	6	242
287	Comparison of Several Flood Forecasting Models in Yangtze River. *Journal of Hydrologic Engineering - ASCE*, **2005**, 10, 485-491	1.8	239
286	Data-driven input variable selection for rainfall–runoff modeling using binary-coded particle swarm optimization and Extreme Learning Machines. *Journal of Hydrology*, **2015**, 529, 1617-1632	6	232
285	A hybrid model coupled with singular spectrum analysis for daily rainfall prediction. *Journal of Hydroinformatics*, **2010**, 12, 458-473	2.6	229
284	Modeling of energy consumption and environmental life cycle assessment for incineration and landfill systems of municipal solid waste management - A case study in Tehran Metropolis of Iran. *Journal of Cleaner Production*, **2017**, 148, 427-440	10.3	214

283	Survey of computational intelligence as basis to big flood management: challenges, research directions and future work. *Engineering Applications of Computational Fluid Mechanics*, **2018**, 12, 411-437	4.5	213
282	Coupling a firefly algorithm with support vector regression to predict evaporation in northern Iran. *Engineering Applications of Computational Fluid Mechanics*, **2018**, 12, 584-597	4.5	209
281	Prediction of rainfall time series using modular soft computingmethods. *Engineering Applications of Artificial Intelligence*, **2013**, 26, 997-1007	7.2	195
280	Optimizing Hydropower Reservoir Operation Using Hybrid Genetic Algorithm and Chaos. *Water Resources Management*, **2008**, 22, 895-909	3.7	194
279	Neural network river forecasting through baseflow separation and binary-coded swarm optimization. *Journal of Hydrology*, **2015**, 529, 1788-1797	6	181
278	Improved annual rainfall-runoff forecasting using PSOSVM model based on EEMD. *Journal of Hydroinformatics*, **2013**, 15, 1377-1390	2.6	173
277	Modeling of groundwater level fluctuations using dendrochronology in alluvial aquifers. *Journal of Hydrology*, **2015**, 529, 1060-1069	6	171
276	Application of a PSO-based neural network in analysis of outcomes of construction claims. *Automation in Construction*, **2007**, 16, 642-646	9.6	171
275	Sustainable Business Models: A Review. *Sustainability*, **2019**, 11, 1663	3.6	145
274	A comparative study of population-based optimization algorithms for downstream river flow forecasting by a hybrid neural network model. *Engineering Applications of Artificial Intelligence*, **2015**, 46, 258-268	7.2	144
273	Numerical simulation of the effects of building dimensional variation on wind pressure distribution. *Engineering Applications of Computational Fluid Mechanics*, **2017**, 11, 293-309	4.5	141
272	Improving forecasting accuracy of medium and long-term runoff using artificial neural network based on EEMD decomposition. *Environmental Research*, **2015**, 139, 46-54	7.9	140
271	Assessment of River Water Quality Based on Theory of Variable Fuzzy Sets and Fuzzy Binary Comparison Method. *Water Resources Management*, **2014**, 28, 4183-4200	3.7	138
270	A review on integration of artificial intelligence into water quality modelling. *Marine Pollution Bulletin*, **2006**, 52, 726-33	6.7	138
269	A comparison of various artificial intelligence approaches performance for estimating suspended sediment load of river systems: a case study in United States. *Environmental Monitoring and Assessment*, **2015**, 187, 189	3.1	137
268	Machine-learning paradigms for selecting ecologically significant input variables. *Engineering Applications of Artificial Intelligence*, **2007**, 20, 735-744	7.2	136
267	Experimental and numerical analysis of a nanofluidic thermosyphon heat exchanger. *Engineering Applications of Computational Fluid Mechanics*, **2019**, 13, 40-47	4.5	133
266	ANN-based interval forecasting of streamflow discharges using the LUBE method and MOFIPS. *Engineering Applications of Artificial Intelligence*, **2015**, 45, 429-440	7.2	132

265	River stage prediction based on a distributed support vector regression. *Journal of Hydrology*, **2008**, 358, 96-111	6	132
264	Computational intelligence approach for modeling hydrogen production: a review. *Engineering Applications of Computational Fluid Mechanics*, **2018**, 12, 438-458	4.5	124
263	Combined life cycle assessment and artificial intelligence for prediction of output energy and environmental impacts of sugarcane production. *Science of the Total Environment*, **2019**, 664, 1005-1019	10.2	121
262	Ensemble models with uncertainty analysis for multi-day ahead forecasting of chlorophyll a concentration in coastal waters. *Engineering Applications of Computational Fluid Mechanics*, **2019**, 13, 91-101	4.5	118
261	A Survey of Deep Learning Techniques: Application in Wind and Solar Energy Resources. *IEEE Access* , **2019**, 7, 164650-164666	3.5	115
260	A new image thresholding method based on Gaussian mixture model. *Applied Mathematics and Computation*, **2008**, 205, 899-907	2.7	115
259	A Hybrid Double Feedforward Neural Network for Suspended Sediment Load Estimation. *Water Resources Management*, **2016**, 30, 2179-2194	3.7	113
258	Multiple criteria data envelopment analysis for full ranking units associated to environment impact assessment. *International Journal of Environment and Pollution*, **2006**, 28, 448	0.7	112
257	Data-driven models for monthly streamflow time series prediction. *Engineering Applications of Artificial Intelligence*, **2010**, 23, 1350-1367	7.2	111
256	A hybrid adaptive time-delay neural network model for multi-step-ahead prediction of sunspot activity. *International Journal of Environment and Pollution*, **2006**, 28, 364	0.7	109
255	Experimental and computational fluid dynamics-based numerical simulation of using natural gas in a dual-fueled diesel engine. *Engineering Applications of Computational Fluid Mechanics*, **2018**, 12, 517-534	4.5	109
254	Operation challenges for fast-growing China's hydropower systems and respondence to energy saving and emission reduction. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 2386-2393	16.2	103
253	Prediction of Hydropower Generation Using Grey Wolf Optimization Adaptive Neuro-Fuzzy Inference System. *Energies*, **2019**, 12, 289	3.1	99
252	Integration of artificial intelligence methods and life cycle assessment to predict energy output and environmental impacts of paddy production. *Science of the Total Environment*, **2018**, 631-632, 1279-1294	10.2	99
251	A split-step particle swarm optimization algorithm in river stage forecasting. *Journal of Hydrology*, **2007**, 346, 131-135	6	98
250	Four-Dimensional Visualization of Construction Scheduling and Site Utilization. *Journal of Construction Engineering and Management - ASCE*, **2004**, 130, 598-606	4.2	97
249	Using genetic algorithm and TOPSIS for Xinanjiang model calibration with a single procedure. *Journal of Hydrology*, **2006**, 316, 129-140	6	94
248	Effect of river flow on the quality of estuarine and coastal waters using machine learning models. *Engineering Applications of Computational Fluid Mechanics*, **2018**, 12, 810-823	4.5	92

247	Neural network river forecasting with multi-objective fully informed particle swarm optimization. *Journal of Hydroinformatics*, **2015**, 17, 99-113	2.6	91
246	Predicting Standardized Streamflow index for hydrological drought using machine learning models. *Engineering Applications of Computational Fluid Mechanics*, **2020**, 14, 339-350	4.5	88
245	Three-person multi-objective conflict decision in reservoir flood control. *European Journal of Operational Research*, **2002**, 142, 625-631	5.6	87
244	Numerical simulation of nanofluid flow inside a root canal. *Engineering Applications of Computational Fluid Mechanics*, **2019**, 13, 254-264	4.5	85
243	Mathematical model of water quality rehabilitation with rainwater utilisation: a case study at Haigang. *International Journal of Environment and Pollution*, **2006**, 28, 534	0.7	85
242	Long-Term Prediction of Discharges in Manwan Reservoir Using Artificial Neural Network Models. *Lecture Notes in Computer Science*, **2005**, 1040-1045	0.9	85
241	Forecasting pan evaporation with an integrated artificial neural network quantum-behaved particle swarm optimization model: a case study in Talesh, Northern Iran. *Engineering Applications of Computational Fluid Mechanics*, **2018**, 12, 724-737	4.5	85
240	4D dynamic management for construction planning and resource utilization. *Automation in Construction*, **2004**, 13, 575-589	9.6	84
239	3D Numerical Model for Pearl River Estuary. *Journal of Hydraulic Engineering*, **2001**, 127, 72-82	1.8	84
238	An ontology-based knowledge management system for flow and water quality modeling. *Advances in Engineering Software*, **2007**, 38, 172-181	3.6	81
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235	Energy-Life cycle assessment on applying solar technologies for greenhouse strawberry production. *Renewable and Sustainable Energy Reviews*, **2019**, 116, 109411	16.2	77
234	Prediction of multi-inputs bubble column reactor using a novel hybrid model of computational fluid dynamics and machine learning. *Engineering Applications of Computational Fluid Mechanics*, **2019**, 13, 482-492	4.5	77
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231	FUZZY ITERATION METHODOLOGY FOR RESERVOIR FLOOD CONTROL OPERATION1. *Journal of the American Water Resources Association*, **2001**, 37, 1381-1388	2.1	73
230	Energy consumption enhancement and environmental life cycle assessment in paddy production using optimization techniques. *Journal of Cleaner Production*, **2017**, 162, 571-586	10.3	72

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228	Application of ANNs, ANFIS and RSM to estimating and optimizing the parameters that affect the yield and cost of biodiesel production. *Engineering Applications of Computational Fluid Mechanics*, **2018**, 12, 611-624	4.5	72
227	Incorporation of Sustainability Concepts into a Civil Engineering Curriculum. *Journal of Professional Issues in Engineering Education and Practice*, **2007**, 133, 188-191	0.7	70
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225	Flood control management system for reservoirs. *Environmental Modelling and Software*, **2004**, 19, 1141-1150	5.1	69
224	Developing an ANFIS-based swarm concept model for estimating the relative viscosity of nanofluids. *Engineering Applications of Computational Fluid Mechanics*, **2019**, 13, 26-39	4.5	69
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222	Characterization of transboundary POP contamination in aquatic ecosystems of Pearl River delta. *Marine Pollution Bulletin*, **2005**, 51, 960-5	6.7	68
221	Long-Term Prediction of Discharges in Manwan Hydropower Using Adaptive-Network-Based Fuzzy Inference Systems Models. *Lecture Notes in Computer Science*, **2005**, 1152-1161	0.9	65
220	Comparative Analysis of Recurrent Neural Network Architectures for Reservoir Inflow Forecasting. *Water (Switzerland)*, **2020**, 12, 1500	3	64
219	Multiple criteria rainfall□unoff model calibration using a parallel genetic algorithm in a cluster of computers / Calage multi-crit□es en mod□isation pluie□□it par un algorithme g□□ique parall□e mis en □uvre par une grappe d'ordinateurs. *Hydrological Sciences Journal*, **2005**, 50,	3.5	64
218	Toward multi-day-ahead forecasting of suspended sediment concentration using ensemble models. *Environmental Science and Pollution Research*, **2017**, 24, 28017-28025	5.1	63
217	Investigation of submerged structures□flexibility on sloshing frequency using a boundary element method and finite element analysis. *Engineering Applications of Computational Fluid Mechanics*, **2019**, 13, 519-528	4.5	63
216	Uncertainty Analysis on Hybrid Double Feedforward Neural Network Model for Sediment Load Estimation with LUBE Method. *Water Resources Management*, **2019**, 33, 3563-3577	3.7	63
215	Application of data envelopment analysis approach for optimization of energy use and reduction of greenhouse gas emission in peanut production of Iran. *Journal of Cleaner Production*, **2018**, 172, 1327-1335	10.3	63
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213	A three-dimensional pollutant transport model in orthogonal curvilinear and sigma coordinate system for Pearl river estuary. *International Journal of Environment and Pollution*, **2004**, 21, 188	0.7	62
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209	Data mining and multivariate statistical analysis for ecological system in coastal waters. *Journal of Hydroinformatics*, **2007**, 9, 305-317	2.6	55
208	Modeling monthly pan evaporation using wavelet support vector regression and wavelet artificial neural networks in arid and humid climates. *Engineering Applications of Computational Fluid Mechanics*, **2019**, 13, 177-187	4.5	55
207	Multi-objective optimization of energy use and environmental emissions for walnut production using imperialist competitive algorithm. *Applied Energy*, **2021**, 284, 116342	10.7	55
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204	Sugarcane growth prediction based on meteorological parameters using extreme learning machine and artificial neural network. *Engineering Applications of Computational Fluid Mechanics*, **2018**, 12, 738-749	4.5	52
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202	4D dynamic construction management and visualization software: 1. Development. *Automation in Construction*, **2005**, 14, 512-524	9.6	51
201	Dimension Reduction Using Semi-Supervised Locally Linear Embedding for Plant Leaf Classification. *Lecture Notes in Computer Science*, **2009**, 948-955	0.9	51
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197	Computational Intelligence on Short-Term Load Forecasting: A Methodological Overview. *Energies*, **2019**, 12, 393	3.1	48
196	Reliability and performance-based design by artificial neural network. *Advances in Engineering Software*, **2007**, 38, 145-149	3.6	48
195	Assessment of optimized pattern in milling factories of rice production based on energy, environmental and economic objectives. *Energy*, **2019**, 169, 1259-1273	7.9	48
194	Reservoir operation based on evolutionary algorithms and multi-criteria decision-making under climate change and uncertainty. *Journal of Hydroinformatics*, **2018**, 20, 332-355	2.6	47

193	A numerical and experimental study on the energy efficiency of a regenerative Heat and Mass Exchanger utilizing the counter-flow Maisotsenko cycle. *Engineering Applications of Computational Fluid Mechanics*, **2020**, 14, 1-12	4.5	47
192	Application of data warehouse and Decision Support System in construction management. *Automation in Construction*, **2003**, 12, 213-224	9.6	46
191	Estimating longitudinal dispersion coefficient in natural streams using empirical models and machine learning algorithms. *Engineering Applications of Computational Fluid Mechanics*, **2020**, 14, 311-322	4.5	45
190	Groundwater Quality Assessment for Sustainable Drinking and Irrigation. *Sustainability*, **2020**, 12, 177	3.6	45
189	Eutrophication Model for a Coastal Bay in Hong Kong. *Journal of Environmental Engineering, ASCE*, **1998**, 124, 628-638	2	42
188	Modeling monthly pan evaporation process over the Indian central Himalayas: application of multiple learning artificial intelligence model. *Engineering Applications of Computational Fluid Mechanics*, **2020**, 14, 323-338	4.5	42
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186	Applicability of connectionist methods to predict dynamic viscosity of silver/water nanofluid by using ANN-MLP, MARS and MPR algorithms. *Engineering Applications of Computational Fluid Mechanics*, **2019**, 13, 220-228	4.5	40
185	Prediction of remaining service life of pavement using an optimized support vector machine (case study of Semnan□Firuzkuh road). *Engineering Applications of Computational Fluid Mechanics*, **2019**, 13, 188-198	4.5	40
184	Flutter speed estimation using presented differential quadrature method formulation. *Engineering Applications of Computational Fluid Mechanics*, **2019**, 13, 804-810	4.5	39
183	Estimating Daily Dew Point Temperature Using Machine Learning Algorithms. *Water (Switzerland)*, **2019**, 11, 582	3	38
182	Knowledge-Based System on Optimum Design of Liquid Retaining Structures with Genetic Algorithms. *Journal of Structural Engineering*, **2003**, 129, 1312-1321	3	38
181	Field measurements of SOD and sediment nutrient fluxes in a land-locked embayment in Hong Kong. *Journal of Environmental Management*, **2002**, 6, 135-142		38
180	The Annual Maximum Flood Peak Discharge Forecasting Using Hermite Projection Pursuit Regression with SSO and LS Method. *Water Resources Management*, **2017**, 31, 461-477	3.7	37
179	Calibration of Xinanjiang model parameters using hybrid genetic algorithm based fuzzy optimal model. *Journal of Hydroinformatics*, **2012**, 14, 784-799	2.6	37
178	Integrated water quality management in Tolo Harbour, Hong Kong: a case study. *Journal of Cleaner Production*, **2007**, 15, 1568-1572	10.3	37
177	Implementation of evolutionary computing models for reference evapotranspiration modeling: short review, assessment and possible future research directions. *Engineering Applications of Computational Fluid Mechanics*, **2019**, 13, 811-823	4.5	36
176	Applying GMDH neural network to estimate the thermal resistance and thermal conductivity of pulsating heat pipes. *Engineering Applications of Computational Fluid Mechanics*, **2019**, 13, 327-336	4.5	36

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174	Life cycle assessment of canola edible oil production in Iran: A case study in Isfahan province. *Journal of Cleaner Production*, **2018**, 196, 714-725	10.3	36
173	A novel hybrid neural network based on continuity equation and fuzzy pattern-recognition for downstream daily river discharge forecasting. *Journal of Hydroinformatics*, **2015**, 17, 733-744	2.6	34
172	Application of ANFIS and LSSVM strategies for estimating thermal conductivity enhancement of metal and metal oxide based nanofluids. *Engineering Applications of Computational Fluid Mechanics*, **2019**, 13, 560-578	4.5	34
171	Machine learning based marine water quality prediction for coastal hydro-environment management. *Journal of Environmental Management*, **2021**, 284, 112051	7.9	34
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168	A review on the integration of artificial intelligence into coastal modeling. *Journal of Environmental Management*, **2006**, 80, 47-57	7.9	32
167	Prediction of evaporation in arid and semi-arid regions: a comparative study using different machine learning models. *Engineering Applications of Computational Fluid Mechanics*, **2020**, 14, 70-89	4.5	32
166	A new indirect multi-step-ahead prediction model for a long-term hydrologic prediction. *Journal of Hydrology*, **2008**, 361, 118-130	6	31
165	A two-stage dynamic model on allocation of construction facilities with genetic algorithm. *Automation in Construction*, **2004**, 13, 481-490	9.6	31
164	Viability of the advanced adaptive neuro-fuzzy inference system model on reservoir evaporation process simulation: case study of Nasser Lake in Egypt. *Engineering Applications of Computational Fluid Mechanics*, **2019**, 13, 878-891	4.5	30
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162	Novel genetic-based negative correlation learning for estimating soil temperature. *Engineering Applications of Computational Fluid Mechanics*, **2018**, 12, 506-516	4.5	29
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158	Palmprint identification using restricted fusion. *Applied Mathematics and Computation*, **2008**, 205, 927-934	2.7	28

157	River Stage Forecasting with Particle Swarm Optimization. *Lecture Notes in Computer Science*, **2004**, 1166-1173	0.9	28
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150	A Web-based flood forecasting system for Shuangpai region. *Advances in Engineering Software*, **2006**, 37, 146-158	3.6	26
149	An example of expert system on numerical modelling system in coastal processes. *Advances in Engineering Software*, **2001**, 32, 695-703	3.6	26
148	Towards experimental and modeling study of heat transfer performance of water- SiO2 nanofluid in quadrangular cross-section channels. *Engineering Applications of Computational Fluid Mechanics*, **2019**, 13, 453-469	4.5	25
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145	Implementation of visualization as planning and scheduling tool in construction. *Building and Environment*, **2003**, 38, 713-719	6.5	24
144	Insight into Resolving Construction Disputes by Mediation/Adjudication in Hong Kong. *Journal of Professional Issues in Engineering Education and Practice*, **2007**, 133, 143-147	0.7	23
143	A finite difference model of two-dimensional tidal flow in Tolo Harbor, Hong Kong. *Applied Mathematical Modelling*, **1996**, 20, 321-328	4.5	23
142	Parallel chance-constrained dynamic programming for cascade hydropower system operation. *Energy*, **2018**, 165, 752-767	7.9	23
141	Simulation of transboundary pollutant transport action in the Pearl River delta. *Chemosphere*, **2003**, 52, 1615-21	8.4	22
140	Numerical solution of two-layer, two-dimensional tidal flow in a boundary-fitted orthogonal curvilinear co-ordinate system. *International Journal for Numerical Methods in Fluids*, **1995**, 21, 1087-1107	1.9	22

139	Modeling temperature dependency of oil - water relative permeability in thermal enhanced oil recovery processes using group method of data handling and gene expression programming. *Engineering Applications of Computational Fluid Mechanics*, **2019**, 13, 724-743	4.5	21
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132	A Split-Step PSO Algorithm in Prediction of Water Quality Pollution. *Lecture Notes in Computer Science*, **2005**, 1034-1039	0.9	19
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