

Kwok Wing Chau

List of Publications by Year in descending order

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308
papers

21,843
citations

5569

82
h-index

11303

136
g-index

315
all docs

315
docs citations

315
times ranked

12967
citing authors

#	ARTICLE	IF	CITATIONS
1	Flood Prediction Using Machine Learning Models: Literature Review. <i>Water (Switzerland)</i> , 2018, 10, 1536.	1.2	692
2	A comparison of performance of several artificial intelligence methods for forecasting monthly discharge time series. <i>Journal of Hydrology</i> , 2009, 374, 294-306.	2.3	657
3	Using support vector machines for long-term discharge prediction. <i>Hydrological Sciences Journal</i> , 2006, 51, 599-612.	1.2	489
4	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. <i>Journal of Hydrology</i> , 2019, 569, 387-408.	2.3	470
5	Improving Forecasting Accuracy of Annual Runoff Time Series Using ARIMA Based on EEMD Decomposition. <i>Water Resources Management</i> , 2015, 29, 2655-2675.	1.9	440
6	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. <i>Journal of Cleaner Production</i> , 2017, 148, 427-440.	4.6	345
7	Artificial neural network simulation of hourly groundwater levels in a coastal aquifer system of the Venice lagoon. <i>Engineering Applications of Artificial Intelligence</i> , 2012, 25, 1670-1676.	4.3	334
8	Predicting monthly streamflow using data-driven models coupled with data-preprocessing techniques. <i>Water Resources Research</i> , 2009, 45, .	1.7	331
9	Rainfall-runoff modeling using artificial neural network coupled with singular spectrum analysis. <i>Journal of Hydrology</i> , 2011, 399, 394-409.	2.3	312
10	Neural network and genetic programming for modelling coastal algal blooms. <i>International Journal of Environment and Pollution</i> , 2006, 28, 223.	0.2	310
11	Prediction of rainfall time series using modular artificial neural networks coupled with data-preprocessing techniques. <i>Journal of Hydrology</i> , 2010, 389, 146-167.	2.3	301
12	Data-driven input variable selection for rainfall-runoff modeling using binary-coded particle swarm optimization and Extreme Learning Machines. <i>Journal of Hydrology</i> , 2015, 529, 1617-1632.	2.3	293
13	Combining a fuzzy optimal model with a genetic algorithm to solve multi-objective rainfall-runoff model calibration. <i>Journal of Hydrology</i> , 2002, 268, 72-86.	2.3	285
14	Particle swarm optimization training algorithm for ANNs in stage prediction of Shing Mun River. <i>Journal of Hydrology</i> , 2006, 329, 363-367.	2.3	285
15	Comparison of Several Flood Forecasting Models in Yangtze River. <i>Journal of Hydrologic Engineering - ASCE</i> , 2005, 10, 485-491.	0.8	279
16	Methods to improve neural network performance in daily flows prediction. <i>Journal of Hydrology</i> , 2009, 372, 80-93.	2.3	273
17	Prediction of rainfall time series using modular soft computing methods. <i>Engineering Applications of Artificial Intelligence</i> , 2013, 26, 997-1007.	4.3	269
18	A hybrid model coupled with singular spectrum analysis for daily rainfall prediction. <i>Journal of Hydroinformatics</i> , 2010, 12, 458-473.	1.1	265

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19	Survey of computational intelligence as basis to big flood management: challenges, research directions and future work. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018, 12, 411-437.	1.5	255
20	Coupling a firefly algorithm with support vector regression to predict evaporation in northern Iran. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018, 12, 584-597.	1.5	242
21	Optimizing Hydropower Reservoir Operation Using Hybrid Genetic Algorithm and Chaos. <i>Water Resources Management</i> , 2008, 22, 895-909.	1.9	235
22	Sustainable Business Models: A Review. <i>Sustainability</i> , 2019, 11, 1663.	1.6	234
23	Improved annual rainfall-runoff forecasting using PSO-SVM model based on EEMD. <i>Journal of Hydroinformatics</i> , 2013, 15, 1377-1390.	1.1	223
24	Application of a PSO-based neural network in analysis of outcomes of construction claims. <i>Automation in Construction</i> , 2007, 16, 642-646.	4.8	220
25	A Survey of Deep Learning Techniques: Application in Wind and Solar Energy Resources. <i>IEEE Access</i> , 2019, 7, 164650-164666.	2.6	210
26	Modeling of groundwater level fluctuations using dendrochronology in alluvial aquifers. <i>Journal of Hydrology</i> , 2015, 529, 1060-1069.	2.3	207
27	Neural network river forecasting through baseflow separation and binary-coded swarm optimization. <i>Journal of Hydrology</i> , 2015, 529, 1788-1797.	2.3	202
28	Combined life cycle assessment and artificial intelligence for prediction of output energy and environmental impacts of sugarcane production. <i>Science of the Total Environment</i> , 2019, 664, 1005-1019.	3.9	200
29	A review on integration of artificial intelligence into water quality modelling. <i>Marine Pollution Bulletin</i> , 2006, 52, 726-733.	2.3	187
30	ANN-based interval forecasting of streamflow discharges using the LUBE method and MOFIPS. <i>Engineering Applications of Artificial Intelligence</i> , 2015, 45, 429-440.	4.3	187
31	Improving forecasting accuracy of medium and long-term runoff using artificial neural network based on EEMD decomposition. <i>Environmental Research</i> , 2015, 139, 46-54.	3.7	185
32	Predicting Standardized Streamflow index for hydrological drought using machine learning models. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 339-350.	1.5	171
33	River stage prediction based on a distributed support vector regression. <i>Journal of Hydrology</i> , 2008, 358, 96-111.	2.3	170
34	Numerical simulation of the effects of building dimensional variation on wind pressure distribution. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2017, 11, 293-309.	1.5	169
35	A new image thresholding method based on Gaussian mixture model. <i>Applied Mathematics and Computation</i> , 2008, 205, 899-907.	1.4	168
36	Machine-learning paradigms for selecting ecologically significant input variables. <i>Engineering Applications of Artificial Intelligence</i> , 2007, 20, 735-744.	4.3	163

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37	A comparative study of population-based optimization algorithms for downstream river flow forecasting by a hybrid neural network model. <i>Engineering Applications of Artificial Intelligence</i> , 2015, 46, 258-268.	4.3	158
38	Comparative Analysis of Recurrent Neural Network Architectures for Reservoir Inflow Forecasting. <i>Water (Switzerland)</i> , 2020, 12, 1500.	1.2	157
39	Computational intelligence approach for modeling hydrogen production: a review. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018, 12, 438-458.	1.5	154
40	Ensemble models with uncertainty analysis for multi-day ahead forecasting of chlorophyll <i>a</i> concentration in coastal waters. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 91-101.	1.5	153
41	A comparison of various artificial intelligence approaches performance for estimating suspended sediment load of river systems: a case study in United States. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 189.	1.3	151
42	Prediction of Hydropower Generation Using Grey Wolf Optimization Adaptive Neuro-Fuzzy Inference System. <i>Energies</i> , 2019, 12, 289.	1.6	151
43	Assessment of River Water Quality Based on Theory of Variable Fuzzy Sets and Fuzzy Binary Comparison Method. <i>Water Resources Management</i> , 2014, 28, 4183-4200.	1.9	149
44	Data-driven models for monthly streamflow time series prediction. <i>Engineering Applications of Artificial Intelligence</i> , 2010, 23, 1350-1367.	4.3	148
45	Integration of artificial intelligence methods and life cycle assessment to predict energy output and environmental impacts of paddy production. <i>Science of the Total Environment</i> , 2018, 631-632, 1279-1294.	3.9	147
46	Experimental and numerical analysis of a nanofluidic thermosyphon heat exchanger. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 40-47.	1.5	145
47	Multiple criteria data envelopment analysis for full ranking units associated to environment impact assessment. <i>International Journal of Environment and Pollution</i> , 2006, 28, 448.	0.2	132
48	A hybrid adaptive time-delay neural network model for multi-step-ahead prediction of sunspot activity. <i>International Journal of Environment and Pollution</i> , 2006, 28, 364.	0.2	129
49	A Hybrid Double Feedforward Neural Network for Suspended Sediment Load Estimation. <i>Water Resources Management</i> , 2016, 30, 2179-2194.	1.9	128
50	Operation challenges for fast-growing China's hydropower systems and response to energy saving and emission reduction. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 2386-2393.	8.2	126
51	Energy-Life cycle assessment on applying solar technologies for greenhouse strawberry production. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 116, 109411.	8.2	126
52	Using genetic algorithm and TOPSIS for Xinjiang model calibration with a single procedure. <i>Journal of Hydrology</i> , 2006, 316, 129-140.	2.3	121
53	Experimental and computational fluid dynamics-based numerical simulation of using natural gas in a dual-fueled diesel engine. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018, 12, 517-534.	1.5	120
54	Application of photovoltaic system to modify energy use, environmental damages and cumulative energy demand of two irrigation systems-A case study: Barley production of Iran. <i>Renewable Energy</i> , 2020, 160, 1316-1334.	4.3	120

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55	Machine learning based marine water quality prediction for coastal hydro-environment management. <i>Journal of Environmental Management</i> , 2021, 284, 112051.	3.8	120
56	A numerical and experimental study on the energy efficiency of a regenerative Heat and Mass Exchanger utilizing the counter-flow Maisotsenko cycle. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 1-12.	1.5	118
57	Four-Dimensional Visualization of Construction Scheduling and Site Utilization. <i>Journal of Construction Engineering and Management - ASCE</i> , 2004, 130, 598-606.	2.0	115
58	Effect of river flow on the quality of estuarine and coastal waters using machine learning models. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018, 12, 810-823.	1.5	113
59	Use of optimization techniques for energy use efficiency and environmental life cycle assessment modification in sugarcane production. <i>Energy</i> , 2019, 181, 1298-1320.	4.5	112
60	Long-Term Prediction of Discharges in Manwan Reservoir Using Artificial Neural Network Models. <i>Lecture Notes in Computer Science</i> , 2005, , 1040-1045.	1.0	110
61	A split-step particle swarm optimization algorithm in river stage forecasting. <i>Journal of Hydrology</i> , 2007, 346, 131-135.	2.3	110
62	Precipitation projection using a CMIP5 GCM ensemble model: a regional investigation of Syria. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 90-106.	1.5	104
63	Groundwater Quality Assessment for Sustainable Drinking and Irrigation. <i>Sustainability</i> , 2020, 12, 177.	1.6	104
64	Yin-Yang firefly algorithm based on dimensionally Cauchy mutation. <i>Expert Systems With Applications</i> , 2020, 150, 113216.	4.4	104
65	4D dynamic management for construction planning and resource utilization. <i>Automation in Construction</i> , 2004, 13, 575-589.	4.8	102
66	Forecasting pan evaporation with an integrated artificial neural network quantum-behaved particle swarm optimization model: a case study in Talesh, Northern Iran. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018, 12, 724-737.	1.5	102
67	Neural network river forecasting with multi-objective fully informed particle swarm optimization. <i>Journal of Hydroinformatics</i> , 2015, 17, 99-113.	1.1	101
68	Three-person multi-objective conflict decision in reservoir flood control. <i>European Journal of Operational Research</i> , 2002, 142, 625-631.	3.5	100
69	An ontology-based knowledge management system for flow and water quality modeling. <i>Advances in Engineering Software</i> , 2007, 38, 172-181.	1.8	99
70	Multi-objective optimization of energy use and environmental emissions for walnut production using imperialist competitive algorithm. <i>Applied Energy</i> , 2021, 284, 116342.	5.1	99
71	Application of ANNs, ANFIS and RSM to estimating and optimizing the parameters that affect the yield and cost of biodiesel production. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018, 12, 611-624.	1.5	98
72	Numerical simulation of nanofluid flow inside a root canal. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 254-264.	1.5	98

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73	Energy consumption enhancement and environmental life cycle assessment in paddy production using optimization techniques. <i>Journal of Cleaner Production</i> , 2017, 162, 571-586.	4.6	96
74	A flood forecasting neural network model with genetic algorithm. <i>International Journal of Environment and Pollution</i> , 2006, 28, 261.	0.2	95
75	Mathematical model of water quality rehabilitation with rainwater utilisation: a case study at Haigang. <i>International Journal of Environment and Pollution</i> , 2006, 28, 534.	0.2	95
76	Incorporation of Sustainability Concepts into a Civil Engineering Curriculum. <i>Journal of Professional Issues in Engineering Education and Practice</i> , 2007, 133, 188-191.	0.9	95
77	3D Numerical Model for Pearl River Estuary. <i>Journal of Hydraulic Engineering</i> , 2001, 127, 72-82.	0.7	91
78	Developing an ANFIS-based swarm concept model for estimating the relative viscosity of nanofluids. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 26-39.	1.5	90
79	Prediction of multi-inputs bubble column reactor using a novel hybrid model of computational fluid dynamics and machine learning. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 482-492.	1.5	89
80	Use of Meta-Heuristic Techniques in Rainfall-Runoff Modelling. <i>Water (Switzerland)</i> , 2017, 9, 186.	1.2	88
81	Computational Intelligence on Short-Term Load Forecasting: A Methodological Overview. <i>Energies</i> , 2019, 12, 393.	1.6	88
82	Sugarcane growth prediction based on meteorological parameters using extreme learning machine and artificial neural network. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018, 12, 738-749.	1.5	87
83	Thin and sharp edges bodies-fluid interaction simulation using cut-cell immersed boundary method. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 860-877.	1.5	87
84	Comprehensive model of energy, environmental impacts and economic in rice milling factories by coupling adaptive neuro-fuzzy inference system and life cycle assessment. <i>Journal of Cleaner Production</i> , 2019, 217, 742-756.	4.6	87
85	Application of data envelopment analysis approach for optimization of energy use and reduction of greenhouse gas emission in peanut production of Iran. <i>Journal of Cleaner Production</i> , 2018, 172, 1327-1335.	4.6	86
86	Modeling monthly pan evaporation using wavelet support vector regression and wavelet artificial neural networks in arid and humid climates. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 177-187.	1.5	86
87	Exergoenvironmental damages assessment of horticultural crops using ReCiPe2016 and cumulative exergy demand frameworks. <i>Journal of Cleaner Production</i> , 2021, 278, 123788.	4.6	86
88	Three-dimensional pollutant transport model for the Pearl River Estuary. <i>Water Research</i> , 2002, 36, 2029-2039.	5.3	85
89	Flood control management system for reservoirs. <i>Environmental Modelling and Software</i> , 2004, 19, 1141-1150.	1.9	85
90	Reservoir operation based on evolutionary algorithms and multi-criteria decision-making under climate change and uncertainty. <i>Journal of Hydroinformatics</i> , 2018, 20, 332-355.	1.1	84

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91	Intelligent manipulation and calibration of parameters for hydrological models. International Journal of Environment and Pollution, 2006, 28, 432.	0.2	82
92	Uncertainty Analysis on Hybrid Double Feedforward Neural Network Model for Sediment Load Estimation with LUBE Method. Water Resources Management, 2019, 33, 3563-3577.	1.9	80
93	FUZZY ITERATION METHODOLOGY FOR RESERVOIR FLOOD CONTROL OPERATION. Journal of the American Water Resources Association, 2001, 37, 1381-1388.	1.0	78
94	China's small hydropower and its dispatching management. Renewable and Sustainable Energy Reviews, 2015, 42, 43-55.	8.2	78
95	Energy optimization and greenhouse gas emissions mitigation for agricultural and horticultural systems in Northern Iran. Energy, 2019, 186, 115845.	4.5	78
96	Multiple criteria rainfall-runoff model calibration using a parallel genetic algorithm in a cluster of computers / Calage multi-critères en modélisation pluie-débit par un algorithme génétique parallèle mis en œuvre par une grappe d'ordinateurs. Hydrological Sciences Journal, 2005, 50, .	1.2	76
97	Application of data warehouse and Decision Support System in construction management. Automation in Construction, 2003, 12, 213-224.	4.8	75
98	Toward multi-day-ahead forecasting of suspended sediment concentration using ensemble models. Environmental Science and Pollution Research, 2017, 24, 28017-28025.	2.7	75
99	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.	1.5	75
100	Daily Reservoir Runoff Forecasting Method Using Artificial Neural Network Based on Quantum-behaved Particle Swarm Optimization. Water (Switzerland), 2015, 7, 4232-4246.	1.2	74
101	Parallel discrete differential dynamic programming for multireservoir operation. Environmental Modelling and Software, 2014, 57, 152-164.	1.9	73
102	Estimating Daily Dew Point Temperature Using Machine Learning Algorithms. Water (Switzerland), 2019, 11, 582.	1.2	73
103	Long-Term Prediction of Discharges in Manwan Hydropower Using Adaptive-Network-Based Fuzzy Inference Systems Models. Lecture Notes in Computer Science, 2005, , 1152-1161.	1.0	73
104	Characterization of transboundary POP contamination in aquatic ecosystems of Pearl River delta. Marine Pollution Bulletin, 2005, 51, 960-965.	2.3	72
105	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.	1.5	71
106	Aeromechanical optimization of first row compressor test stand blades using a hybrid machine learning model of genetic algorithm, artificial neural networks and design of experiments. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 892-904.	1.5	71
107	Principal of environmental life cycle assessment for medical waste during COVID-19 outbreak to support sustainable development goals. Science of the Total Environment, 2022, 827, 154416.	3.9	71
108	Prediction of significant wave height; comparison between nested grid numerical model, and machine learning models of artificial neural networks, extreme learning and support vector machines. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 805-817.	1.5	69

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109	Prediction of remaining service life of pavement using an optimized support vector machine (case) Tj ETQq1 1 0.784314 rgBT /Overlook 188-198.	1.5	67
110	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.	0.2	66
111	Data mining and multivariate statistical analysis for ecological system in coastal waters. Journal of Hydroinformatics, 2007, 9, 305-317.	1.1	66
112	Estimating longitudinal dispersion coefficient in natural streams using empirical models and machine learning algorithms. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 311-322.	1.5	66
113	Assessment of optimized pattern in milling factories of rice production based on energy, environmental and economic objectives. Energy, 2019, 169, 1259-1273.	4.5	65
114	4D dynamic construction management and visualization software: 1. Development. Automation in Construction, 2005, 14, 512-524.	4.8	63
115	Reliability and performance-based design by artificial neural network. Advances in Engineering Software, 2007, 38, 145-149.	1.8	60
116	Short-term Hydroscheduling with Discrepant Objectives Using Multi-Step Progressive Optimality Algorithm. Journal of the American Water Resources Association, 2012, 48, 464-479.	1.0	60
117	Knowledge management system on flow and water quality modeling. Expert Systems With Applications, 2002, 22, 321-330.	4.4	59
118	Dimension Reduction Using Semi-Supervised Locally Linear Embedding for Plant Leaf Classification. Lecture Notes in Computer Science, 2009, , 948-955.	1.0	59
119	Flutter speed estimation using presented differential quadrature method formulation. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 804-810.	1.5	58
120	Enhanced Artificial Neural Network with Harris Hawks Optimization for Predicting Scour Depth Downstream of Ski-Jump Spillway. Applied Sciences (Switzerland), 2020, 10, 5160.	1.3	58
121	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.	1.5	55
122	Persistent organic pollution characterization of sediments in Pearl River estuary. Chemosphere, 2006, 64, 1545-1549.	4.2	54
123	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.	1.5	54
124	Applying novel eco-exergoenvironmental toxicity index to select the best irrigation system of sunflower production. Energy, 2022, 250, 123822.	4.5	54
125	A Novel Detection Algorithm to Identify False Data Injection Attacks on Power System State Estimation. Energies, 2019, 12, 2209.	1.6	53
126	Life cycle assessment of canola edible oil production in Iran: A case study in Isfahan province. Journal of Cleaner Production, 2018, 196, 714-725.	4.6	52

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127	Forecast of rainfall distribution based on fixed sliding window long short-term memory. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2022, 16, 248-261.	1.5	52
128	An Ensemble Hybrid Forecasting Model for Annual Runoff Based on Sample Entropy, Secondary Decomposition, and Long Short-Term Memory Neural Network. <i>Water Resources Management</i> , 2021, 35, 4695-4726.	1.9	51
129	Daily global solar radiation modeling using data-driven techniques and empirical equations in a semi-arid climate. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 142-157.	1.5	50
130	Field measurements of SOD and sediment nutrient fluxes in a land-locked embayment in Hong Kong. <i>Journal of Environmental Management</i> , 2002, 6, 135-142.	1.7	49
131	Data supporting midpoint-weighting life cycle assessment and energy forms of cumulative exergy demand for horticultural crops. <i>Data in Brief</i> , 2020, 33, 106490.	0.5	49
132	Application of ANFIS and LSSVM strategies for estimating thermal conductivity enhancement of metal and metal oxide based nanofluids. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 560-578.	1.5	48
133	Review of Soft Computing Models in Design and Control of Rotating Electrical Machines. <i>Energies</i> , 2019, 12, 1049.	1.6	48
134	Eutrophication Model for a Coastal Bay in Hong Kong. <i>Journal of Environmental Engineering, ASCE</i> , 1998, 124, 628-638.	0.7	46
135	Modeling the fluctuations of groundwater level by employing ensemble deep learning techniques. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 1420-1439.	1.5	46
136	Applying GMDH neural network to estimate the thermal resistance and thermal conductivity of pulsating heat pipes. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 327-336.	1.5	45
137	A new indirect multi-step-ahead prediction model for a long-term hydrologic prediction. <i>Journal of Hydrology</i> , 2008, 361, 118-130.	2.3	44
138	Calibration of Xinanjiang model parameters using hybrid genetic algorithm based fuzzy optimal model. <i>Journal of Hydroinformatics</i> , 2012, 14, 784-799.	1.1	44
139	Prediction of evaporation in arid and semi-arid regions: a comparative study using different machine learning models. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 70-89.	1.5	44
140	Knowledge-Based System on Optimum Design of Liquid Retaining Structures with Genetic Algorithms. <i>Journal of Structural Engineering</i> , 2003, 129, 1312-1321.	1.7	43
141	Integrated water quality management in Tolo Harbour, Hong Kong: a case study. <i>Journal of Cleaner Production</i> , 2007, 15, 1568-1572.	4.6	42
142	The Annual Maximum Flood Peak Discharge Forecasting Using Hermite Projection Pursuit Regression with SSO and LS Method. <i>Water Resources Management</i> , 2017, 31, 461-477.	1.9	42
143	A two-stage dynamic model on allocation of construction facilities with genetic algorithm. <i>Automation in Construction</i> , 2004, 13, 481-490.	4.8	41
144	A review on the integration of artificial intelligence into coastal modeling. <i>Journal of Environmental Management</i> , 2006, 80, 47-57.	3.8	41

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145	Expert system application on preliminary design of water retaining structures. <i>Expert Systems With Applications</i> , 2002, 22, 169-178.	4.4	40
146	Comparative analysis of soft computing techniques RBF, MLP, and ANFIS with MLR and MNL for predicting grade-control scour hole geometry. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 529-550.	1.5	39
147	Prophesying egg production based on energy consumption using multi-layered adaptive neural fuzzy inference system approach. <i>Computers and Electronics in Agriculture</i> , 2016, 131, 10-19.	3.7	38
148	Viability of the advanced adaptive neuro-fuzzy inference system model on reservoir evaporation process simulation: case study of Nasser Lake in Egypt. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 878-891.	1.5	38
149	Modeling climate change impact on wind power resources using adaptive neuro-fuzzy inference system. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 491-506.	1.5	38
150	A three-dimensional eutrophication modeling in Tolo Harbour. <i>Applied Mathematical Modelling</i> , 2004, 28, 849-861.	2.2	36
151	Comparison of three global optimization algorithms for calibration of the Xinanjiang model parameters. <i>Journal of Hydroinformatics</i> , 2013, 15, 174-193.	1.1	36
152	Groundwater level prediction in arid areas using wavelet analysis and Gaussian process regression. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 1147-1158.	1.5	36
153	Palmpoint identification using restricted fusion. <i>Applied Mathematics and Computation</i> , 2008, 205, 927-934.	1.4	35
154	A novel hybrid neural network based on continuity equation and fuzzy pattern-recognition for downstream daily river discharge forecasting. <i>Journal of Hydroinformatics</i> , 2015, 17, 733-744.	1.1	35
155	Modelling coupled water and heat transport in a soil-mulch-plant-atmosphere continuum (SMPAC) system. <i>Applied Mathematical Modelling</i> , 2007, 31, 152-169.	2.2	34
156	Parallel chance-constrained dynamic programming for cascade hydropower system operation. <i>Energy</i> , 2018, 165, 752-767.	4.5	34
157	Novel genetic-based negative correlation learning for estimating soil temperature. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018, 12, 506-516.	1.5	34
158	Precise smart model for estimating dynamic viscosity of SiO ₂ /ethylene glycol-water nanofluid. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 1095-1105.	1.5	34
159	Mathematical modelling of Shing Mun River network. <i>Advances in Water Resources</i> , 1991, 14, 106-112.	1.7	33
160	A Web-based flood forecasting system for Shuangpai region. <i>Advances in Engineering Software</i> , 2006, 37, 146-158.	1.8	33
161	An expert system for flow routing in a river network. <i>Advances in Engineering Software</i> , 1995, 22, 139-146.	1.8	32
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