

Fi-John Chang

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131
papers

5,380
citations

41
h-index

69
g-index

136
ext. papers

6,367
ext. citations

5.6
avg, IF

6.28
L-index

#	Paper	IF	Citations
131	Adaptive neuro-fuzzy inference system for prediction of water level in reservoir. <i>Advances in Water Resources</i> , 2006 , 29, 1-10	4.7	391
130	Optimizing the reservoir operating rule curves by genetic algorithms. <i>Hydrological Processes</i> , 2005 , 19, 2277-2289	3.3	195
129	A counterpropagation fuzzy-neural network modeling approach to real time streamflow prediction. <i>Journal of Hydrology</i> , 2001 , 245, 153-164	6	192
128	Intelligent control for modelling of real-time reservoir operation. <i>Hydrological Processes</i> , 2001 , 15, 1621-1634	3.5	183
127	Comparison of static-feedforward and dynamic-feedback neural networks for rainfall runoff modeling. <i>Journal of Hydrology</i> , 2004 , 290, 297-311	6	162
126	Arsenite-oxidizing and arsenate-reducing bacteria associated with arsenic-rich groundwater in Taiwan. <i>Journal of Contaminant Hydrology</i> , 2011 , 123, 20-9	3.9	147
125	Real-time multi-step-ahead water level forecasting by recurrent neural networks for urban flood control. <i>Journal of Hydrology</i> , 2014 , 517, 836-846	6	141
124	Evolutionary artificial neural networks for hydrological systems forecasting. <i>Journal of Hydrology</i> , 2009 , 367, 125-137	6	117
123	Multi-objective evolutionary algorithm for operating parallel reservoir system. <i>Journal of Hydrology</i> , 2009 , 377, 12-20	6	113
122	Explore a deep learning multi-output neural network for regional multi-step-ahead air quality forecasts. <i>Journal of Cleaner Production</i> , 2019 , 209, 134-145	10.3	112
121	Constrained genetic algorithms for optimizing multi-use reservoir operation. <i>Journal of Hydrology</i> , 2010 , 390, 66-74	6	104
120	Real-Coded Genetic Algorithm for Rule-Based Flood Control Reservoir Management. <i>Water Resources Management</i> , 1998 , 12, 185-198	3.7	98
119	The strategy of building a flood forecast model by neuro-fuzzy network. <i>Hydrological Processes</i> , 2006 , 20, 1525-1540	3.3	96
118	Multi-step-ahead neural networks for flood forecasting. <i>Hydrological Sciences Journal</i> , 2007 , 52, 114-130	3.5	96
117	HESS Opinions: Incubating deep-learning-powered hydrologic science advances as a community. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 5639-5656	5.5	95
116	Reinforced recurrent neural networks for multi-step-ahead flood forecasts. <i>Journal of Hydrology</i> , 2013 , 497, 71-79	6	86
115	Exploring a Long Short-Term Memory based Encoder-Decoder framework for multi-step-ahead flood forecasting. <i>Journal of Hydrology</i> , 2020 , 583, 124631	6	84

114	Modeling water quality in an urban river using hydrological factors--data driven approaches. <i>Journal of Environmental Management</i> , 2015 , 151, 87-96	7.9	83
113	Prediction of monthly regional groundwater levels through hybrid soft-computing techniques. <i>Journal of Hydrology</i> , 2016 , 541, 965-976	6	80
112	Intelligent control for modeling of real-time reservoir operation, part II: artificial neural network with operating rule curves. <i>Hydrological Processes</i> , 2005 , 19, 1431-1444	3.3	77
111	Merging multiple precipitation sources for flash flood forecasting. <i>Journal of Hydrology</i> , 2007 , 340, 183-196		73
110	Synergistic gains from the multi-objective optimal operation of cascade reservoirs in the Upper Yellow River basin. <i>Journal of Hydrology</i> , 2015 , 523, 758-767	6	72
109	Dynamic ANN for precipitation estimation and forecasting from radar observations. <i>Journal of Hydrology</i> , 2007 , 334, 250-261	6	71
108	Multi-output support vector machine for regional multi-step-ahead PM forecasting. <i>Science of the Total Environment</i> , 2019 , 651, 230-240	10.2	69
107	Assessing the effort of meteorological variables for evaporation estimation by self-organizing map neural network. <i>Journal of Hydrology</i> , 2010 , 384, 118-129	6	67
106	Intelligent reservoir operation system based on evolving artificial neural networks. <i>Advances in Water Resources</i> , 2008 , 31, 926-936	4.7	67
105	A two-step-ahead recurrent neural network for stream-flow forecasting. <i>Hydrological Processes</i> , 2004 , 18, 81-92	3.3	67
104	Explore an evolutionary recurrent ANFIS for modelling multi-step-ahead flood forecasts. <i>Journal of Hydrology</i> , 2019 , 570, 343-355	6	67
103	A nonlinear spatio-temporal lumping of radar rainfall for modeling multi-step-ahead inflow forecasts by data-driven techniques. <i>Journal of Hydrology</i> , 2016 , 535, 256-269	6	66
102	Estuary water-stage forecasting by using radial basis function neural network. <i>Journal of Hydrology</i> , 2003 , 270, 158-166	6	65
101	Exploring synergistic benefits of Water-Food-Energy Nexus through multi-objective reservoir optimization schemes. <i>Science of the Total Environment</i> , 2018 , 633, 341-351	10.2	61
100	Regional flood inundation nowcast using hybrid SOM and dynamic neural networks. <i>Journal of Hydrology</i> , 2014 , 519, 476-489	6	59
99	Optimization of operation rule curves and flushing schedule in a reservoir. <i>Hydrological Processes</i> , 2003 , 17, 1623-1640	3.3	59
98	AI techniques for optimizing multi-objective reservoir operation upon human and riverine ecosystem demands. <i>Journal of Hydrology</i> , 2015 , 530, 634-644	6	57
97	Methodology that improves water utilization and hydropower generation without increasing flood risk in mega cascade reservoirs. <i>Energy</i> , 2018 , 143, 785-796	7.9	54

96	Building ANN-Based Regional Multi-Step-Ahead Flood Inundation Forecast Models. <i>Water (Switzerland)</i> , 2018 , 10, 1283	3	53
95	A data-mining framework for exploring the multi-relation between fish species and water quality through self-organizing map. <i>Science of the Total Environment</i> , 2017 , 579, 474-483	10.2	52
94	Enforced self-organizing map neural networks for river flood forecasting. <i>Hydrological Processes</i> , 2007 , 21, 741-749	3.3	46
93	Fusing feasible search space into PSO for multi-objective cascade reservoir optimization. <i>Applied Soft Computing Journal</i> , 2017 , 51, 328-340	7.5	45
92	Watershed rainfall forecasting using neuro-fuzzy networks with the assimilation of multi-sensor information. <i>Journal of Hydrology</i> , 2014 , 508, 374-384	6	42
91	Artificial neural networks for estimating regional arsenic concentrations in a blackfoot disease area in Taiwan. <i>Journal of Hydrology</i> , 2010 , 388, 65-76	6	42
90	Reinforced two-step-ahead weight adjustment technique for online training of recurrent neural networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2012 , 23, 1269-78	10.3	41
89	Multi-tier interactive genetic algorithms for the optimization of long-term reservoir operation. <i>Advances in Water Resources</i> , 2011 , 34, 1343-1351	4.7	41
88	Reservoir operation using grey fuzzy stochastic dynamic programming. <i>Hydrological Processes</i> , 2002 , 16, 2395-2408	3.3	40
87	A self-organization algorithm for real-time flood forecast. <i>Hydrological Processes</i> , 1999 , 13, 123-138	3.3	40
86	Exploring the spatio-temporal interrelation between groundwater and surface water by using the self-organizing maps. <i>Journal of Hydrology</i> , 2018 , 556, 131-142	6	39
85	Modelling combined open channel flow by artificial neural networks. <i>Hydrological Processes</i> , 2005 , 19, 3747-3762	3.3	39
84	Using a hybrid genetic algorithm simulated annealing algorithm for fuzzy programming of reservoir operation. <i>Hydrological Processes</i> , 2007 , 21, 3162-3172	3.3	37
83	Counterpropagation fuzzy neural network for streamflow reconstruction. <i>Hydrological Processes</i> , 2001 , 15, 219-232	3.3	36
82	Seamless integration of convolutional and back-propagation neural networks for regional multi-step-ahead PM2.5 forecasting. <i>Journal of Cleaner Production</i> , 2020 , 261, 121285	10.3	35
81	Systematic impact assessment on inter-basin water transfer projects of the Hanjiang River Basin in China. <i>Journal of Hydrology</i> , 2017 , 553, 584-595	6	35
80	Counterpropagation fuzzy-neural network for city flood control system. <i>Journal of Hydrology</i> , 2008 , 358, 24-34	6	35
79	Assessing the ecological hydrology of natural flow conditions in Taiwan. <i>Journal of Hydrology</i> , 2008 , 354, 75-89	6	34

78	Integrating hydrometeorological information for rainfall-runoff modelling by artificial neural networks. <i>Hydrological Processes</i> , 2009 , 23, 1650-1659	3.3	32
77	Prospect for small-hydropower installation settled upon optimal water allocation: An action to stimulate synergies of water-food-energy nexus. <i>Applied Energy</i> , 2019 , 238, 668-682	10.7	30
76	Including spatial distribution in a data-driven rainfall-runoff model to improve reservoir inflow forecasting in Taiwan. <i>Hydrological Processes</i> , 2014 , 28, 1055-1070	3.3	29
75	Regional estimation of groundwater arsenic concentrations through systematical dynamic-neural modeling. <i>Journal of Hydrology</i> , 2013 , 499, 265-274	6	29
74	A self-organizing radial basis network for estimating riverine fish diversity. <i>Journal of Hydrology</i> , 2013 , 476, 280-289	6	29
73	Valve movement response of the freshwater clam <i>Corbicula fluminea</i> following exposure to waterborne arsenic. <i>Ecotoxicology</i> , 2009 , 18, 567-76	2.9	29
72	Modelling Intelligent Water Resources Allocation for Multi-users. <i>Water Resources Management</i> , 2016 , 30, 1395-1413	3.7	28
71	Estimation of riverbed grain-size distribution using image-processing techniques. <i>Journal of Hydrology</i> , 2012 , 440-441, 102-112	6	28
70	Assessing the mechanisms controlling the mobilization of arsenic in the arsenic contaminated shallow alluvial aquifer in the blackfoot disease endemic area. <i>Journal of Hazardous Materials</i> , 2011 , 197, 397-403	12.8	28
69	Evaluating the Potential Impact of Reservoir Operation on Fish Communities. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2009 , 135, 475-483	2.8	28
68	Building an Intelligent Hydroinformatics Integration Platform for Regional Flood Inundation Warning Systems. <i>Water (Switzerland)</i> , 2019 , 11, 9	3	25
67	An advanced complementary scheme of floating photovoltaic and hydropower generation flourishing water-food-energy nexus synergies. <i>Applied Energy</i> , 2020 , 275, 115389	10.7	25
66	Auto-configuring radial basis function networks for chaotic time series and flood forecasting. <i>Hydrological Processes</i> , 2009 , 23, 2450-2459	3.3	25
65	Acute toxicity and bioaccumulation of arsenic in freshwater clam <i>Corbicula fluminea</i> . <i>Environmental Toxicology</i> , 2008 , 23, 702-11	4.2	25
64	Conservation of groundwater from over-exploitation-Scientific analyses for groundwater resources management. <i>Science of the Total Environment</i> , 2017 , 598, 828-838	10.2	24
63	Boosting hydropower output of mega cascade reservoirs using an evolutionary algorithm with successive approximation. <i>Applied Energy</i> , 2018 , 228, 1726-1739	10.7	24
62	A systematical water allocation scheme for drought mitigation. <i>Journal of Hydrology</i> , 2013 , 507, 124-1336		24
61	Assessing the characteristics of groundwater quality of arsenic contaminated aquifers in the blackfoot disease endemic area. <i>Journal of Hazardous Materials</i> , 2011 , 185, 1458-66	12.8	24

60	Explore spatio-temporal PM2.5 features in northern Taiwan using machine learning techniques. <i>Science of the Total Environment</i> , 2020 , 736, 139656	10.2	23
59	Mathematical modeling suggests high potential for the deployment of floating photovoltaic on fish ponds. <i>Science of the Total Environment</i> , 2019 , 687, 654-666	10.2	22
58	Dynamic factor analysis for estimating ground water arsenic trends. <i>Journal of Environmental Quality</i> , 2010 , 39, 176-84	3.4	22
57	Fuzzy exemplar-based inference system for flood forecasting. <i>Water Resources Research</i> , 2005 , 41,	5.4	21
56	Systematic parameter estimation of watershed acidification model. <i>Hydrological Processes</i> , 1992 , 6, 29-44	3.3	21
55	Optimize multi-objective transformation rules of water-sediment regulation for cascade reservoirs in the Upper Yellow River of China. <i>Journal of Hydrology</i> , 2019 , 577, 123987	6	19
54	Hydrochemical, mineralogical and isotopic investigation of arsenic distribution and mobilization in the Guandu wetland of Taiwan. <i>Journal of Hydrology</i> , 2013 , 498, 274-286	6	19
53	Self-organizing maps of typhoon tracks allow for flood forecasts up to two days in advance. <i>Nature Communications</i> , 2020 , 11, 1983	17.4	17
52	Defining the ecological hydrology of Taiwan Rivers using multivariate statistical methods. <i>Journal of Hydrology</i> , 2009 , 376, 235-242	6	17
51	Estimating spatio-temporal dynamics of stream total phosphate concentration by soft computing techniques. <i>Science of the Total Environment</i> , 2016 , 562, 228-236	10.2	17
50	Primary sink and source of geogenic arsenic in sedimentary aquifers in the southern Choushui River alluvial fan, Taiwan. <i>Applied Geochemistry</i> , 2010 , 25, 684-695	3.5	15
49	Assessing the natural and anthropogenic influences on basin-wide fish species richness. <i>Science of the Total Environment</i> , 2016 , 572, 825-836	10.2	15
48	Assessment of arsenic concentration in stream water using neuro fuzzy networks with factor analysis. <i>Science of the Total Environment</i> , 2014 , 494-495, 202-10	10.2	14
47	Influence of hydrological and hydrogeochemical parameters on arsenic variation in shallow groundwater of southwestern Taiwan. <i>Journal of Hydrology</i> , 2011 , 408, 286-295	6	14
46	Identifying natural flow regimes using fish communities. <i>Journal of Hydrology</i> , 2011 , 409, 328-336	6	14
45	Improving the Reliability of Probabilistic Multi-Step-Ahead Flood Forecasting by Fusing Unscented Kalman Filter with Recurrent Neural Network. <i>Water (Switzerland)</i> , 2020 , 12, 578	3	13
44	Bivariate Seasonal Design Flood Estimation Based on Copulas. <i>Journal of Hydrologic Engineering - ASCE</i> , 2017 , 22, 05017028	1.8	12
43	Exploring Copula-based Bayesian Model Averaging with multiple ANNs for PM2.5 ensemble forecasts. <i>Journal of Cleaner Production</i> , 2020 , 263, 121528	10.3	12

42	Exploring the ecological response of fish to flow regime by soft computing techniques. <i>Ecological Engineering</i> , 2016 , 87, 9-19	3.9	12
41	A refined automated grain sizing method for estimating river-bed grain size distribution of digital images. <i>Journal of Hydrology</i> , 2013 , 486, 224-233	6	12
40	Explore a Multivariate Bayesian Uncertainty Processor driven by artificial neural networks for probabilistic PM forecasting. <i>Science of the Total Environment</i> , 2020 , 711, 134792	10.2	12
39	Dynamic factor analysis and artificial neural network for estimating pan evaporation at multiple stations in northern Taiwan. <i>Hydrological Sciences Journal</i> , 2013 , 58, 813-825	3.5	11
38	Investigating the impact of the Chi-Chi earthquake on the occurrence of debris flows using artificial neural networks. <i>Hydrological Processes</i> , 2009 , 23, 2728-2736	3.3	11
37	Explore Regional PM2.5 Features and Compositions Causing Health Effects in Taiwan. <i>Environmental Management</i> , 2021 , 67, 176-191	3.1	11
36	Shared near neighbours neural network model: a debris flow warning system. <i>Hydrological Processes</i> , 2007 , 21, 1968-1976	3.3	10
35	Neural network modelling for mean velocity and turbulence intensities of steep channel flows. <i>Hydrological Processes</i> , 2008 , 22, 265-274	3.3	10
34	Exploring the Mechanism of Surface and Ground Water through Data-Driven Techniques with Sensitivity Analysis for Water Resources Management. <i>Water Resources Management</i> , 2016 , 30, 4789-4806	3.7	9
33	Adaptive neuro-fuzzy inference system for the prediction of monthly shoreline changes in northeastern Taiwan. <i>Ocean Engineering</i> , 2014 , 84, 145-156	3.9	9
32	Drought mitigation under urbanization through an intelligent water allocation system. <i>Agricultural Water Management</i> , 2019 , 213, 87-96	5.9	9
31	Evaluation of the BMA probabilistic inflow forecasts using TIGGE numeric precipitation predictions based on artificial neural network 2018 , 49, 1417-1433		8
30	Investigating the interactive mechanisms between surface water and groundwater over the Jhuoshuei river basin in central Taiwan. <i>Paddy and Water Environment</i> , 2014 , 12, 365-377	1.6	8
29	Signals of stream fish homogenization revealed by AI-based clusters. <i>Scientific Reports</i> , 2018 , 8, 15960	4.9	7
28	An efficient parallel algorithm for LISSOM neural network. <i>Parallel Computing</i> , 2002 , 28, 1611-1633	1	6
27	Interactive urban building energy modelling with functional mockup interface of a local residential building stock. <i>Journal of Cleaner Production</i> , 2021 , 289, 125683	10.3	6
26	Explore the relationship between fish community and environmental factors by machine learning techniques. <i>Environmental Research</i> , 2020 , 184, 109262	7.9	5
25	Stimulate hydropower output of mega cascade reservoirs using an improved Kidney Algorithm. <i>Journal of Cleaner Production</i> , 2020 , 244, 118613	10.3	5

24	Identification of flood seasonality using an entropy-based method. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018 , 32, 3021-3035	3.5	5
23	Fusing stacked autoencoder and long short-term memory for regional multistep-ahead flood inundation forecasts. <i>Journal of Hydrology</i> , 2021 , 598, 126371	6	5
22	AI-based design of urban stormwater detention facilities accounting for carryover storage. <i>Journal of Hydrology</i> , 2019 , 575, 1111-1122	6	4
21	Fuzzy Clustering Neural Network as Flood Forecasting Model 2002 , 33, 275-290		4
20	An exemplar-based learning model for hydrosystems prediction and categorization. <i>Journal of Hydrology</i> , 1995 , 169, 229-241	6	4
19	Estimation of periodicities in hydrologic data. <i>Stochastic Hydrology & Hydraulics</i> , 1992 , 6, 270-288		4
18	Modeling and Investigating the Mechanisms of Groundwater Level Variation in the Jhuoshui River Basin of Central Taiwan. <i>Water (Switzerland)</i> , 2019 , 11, 1554	3	3
17	Improvement of the agricultural effective rainfall for irrigating rice using the optimal clustering model of rainfall station network. <i>Paddy and Water Environment</i> , 2014 , 12, 393-406	1.6	3
16	Self-organizing radial basis neural network for predicting typhoon-induced losses to rice. <i>Paddy and Water Environment</i> , 2013 , 11, 369-380	1.6	3
15	A hybrid artificial neural network-based agri-economic model for predicting typhoon-induced losses. <i>Natural Hazards</i> , 2012 , 63, 769-787	3	3
14	Efficient Urban Inundation Model for Live Flood Forecasting with Cellular Automata and Motion Cost Fields. <i>Water (Switzerland)</i> , 2020 , 12, 1997	3	3
13	Explore training self-organizing map methods for clustering high-dimensional flood inundation maps. <i>Journal of Hydrology</i> , 2021 , 595, 125655	6	3
12	Prospects for Rooftop Farming System Dynamics: An Action to Stimulate Water-Energy-Food Nexus Synergies toward Green Cities of Tomorrow. <i>Sustainability</i> , 2021 , 13, 9042	3.6	3
11	Uncertainty Analysis of Spatiotemporal Models with Point Estimate Methods (PEMs) The Case of the ANUGA Hydrodynamic Model. <i>Water (Switzerland)</i> , 2020 , 12, 229	3	2
10	Using a Self-Organizing Map to Explore Local Weather Features for Smart Urban Agriculture in Northern Taiwan. <i>Water (Switzerland)</i> , 2021 , 13, 3457	3	2
9	Reply to Comment on Comparison of static-feedforward and dynamic feedback neural networks for rainfall-runoff modeling by Y.M. Chiang, L.C. Chang, and F.J. Chang, 2004. <i>Journal of Hydrology</i> 290, 297B11 <i>Journal of Hydrology</i> , 2005 , 314, 204-206	6	1
8	Counterpropagation fuzzy neural network for streamflow reconstruction 2001 , 15, 219		1
7	Emergency Disposal Solution for Control of a Giant Landslide and Dammed Lake in Yangtze River, China. <i>Water (Switzerland)</i> , 2019 , 11, 1939	3	0

6	A hybrid of response surface methodology and artificial neural network in optimization of culture conditions of mycelia growth of <i>Antrodia cinnamomea</i> . <i>Biomass and Bioenergy</i> , 2022 , 158, 106349	5.3	o
5	Real-time image-based air quality estimation by deep learning neural networks.. <i>Journal of Environmental Management</i> , 2022 , 307, 114560	7.9	o
4	Deep neural networks for spatiotemporal PM forecasts based on atmospheric chemical transport model output and monitoring data.. <i>Environmental Pollution</i> , 2022 , 119348	9.3	o
3	PAWEES 2011 International Conference on Capacity Building for Participatory Irrigation and Environmental Management – 1st Announcement. <i>Paddy and Water Environment</i> , 2011 , 9, 181-182	1.6	
2	The exemplar-aided constructor of hyper-rectangles learning algorithm for stream flow estimation. <i>Hydrological Processes</i> , 2000 , 14, 79-90	3.3	
1	Artificial Neural-Fuzzy Inference Networks as Flood Forecasting Models 2001 , 1		