

Fi-John Chang

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3188057/fi-john-chang-publications-by-year.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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	0
130	Real-time image-based air quality estimation by deep learning neural networks.. <i>Journal of Environmental Management</i> , 2022 , 307, 114560	7.9	0
129	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	0
128	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
127	Explore training self-organizing map methods for clustering high-dimensional flood inundation maps. <i>Journal of Hydrology</i> , 2021 , 595, 125655	6	3
126	Explore Regional PM2.5 Features and Compositions Causing Health Effects in Taiwan. <i>Environmental Management</i> , 2021 , 67, 176-191	3.1	11
125	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
124	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
123	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
122	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
121	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
120	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
119	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
118	Explore the relationship between fish community and environmental factors by machine learning techniques. <i>Environmental Research</i> , 2020 , 184, 109262	7.9	5
117	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
116	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
115	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

114	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
113	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
112	Efficient Urban Inundation Model for Live Flood Forecasting with Cellular Automata and Motion Cost Fields. <i>Water (Switzerland)</i> , 2020 , 12, 1997	3	3
111	Stimulate hydropower output of mega cascade reservoirs using an improved Kidney Algorithm. <i>Journal of Cleaner Production</i> , 2020 , 244, 118613	10.3	5
110	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
109	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
108	AI-based design of urban stormwater detention facilities accounting for carryover storage. <i>Journal of Hydrology</i> , 2019 , 575, 1111-1122	6	4
107	Building an Intelligent Hydroinformatics Integration Platform for Regional Flood Inundation Warning Systems. <i>Water (Switzerland)</i> , 2019 , 11, 9	3	25
106	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
105	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
104	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
103	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
102	Explore an evolutionary recurrent ANFIS for modelling multi-step-ahead flood forecasts. <i>Journal of Hydrology</i> , 2019 , 570, 343-355	6	67
101	Drought mitigation under urbanization through an intelligent water allocation system. <i>Agricultural Water Management</i> , 2019 , 213, 87-96	5.9	9
100	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
99	Evaluation of the BMA probabilistic inflow forecasts using TIGGE numeric precipitation predictions based on artificial neural network 2018 , 49, 1417-1433		8
98	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
97	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

96	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
95	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
94	Building ANN-Based Regional Multi-Step-Ahead Flood Inundation Forecast Models. <i>Water (Switzerland)</i> , 2018 , 10, 1283	3	53
93	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
92	Signals of stream fish homogenization revealed by AI-based clusters. <i>Scientific Reports</i> , 2018 , 8, 15960	4.9	7
91	Identification of flood seasonality using an entropy-based method. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018 , 32, 3021-3035	3.5	5
90	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
89	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
88	Bivariate Seasonal Design Flood Estimation Based on Copulas. <i>Journal of Hydrologic Engineering - ASCE</i> , 2017 , 22, 05017028	1.8	12
87	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
86	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
85	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	2.7	9
84	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
83	Modelling Intelligent Water Resources Allocation for Multi-users. <i>Water Resources Management</i> , 2016 , 30, 1395-1413	3.7	28
82	Exploring the ecological response of fish to flow regime by soft computing techniques. <i>Ecological Engineering</i> , 2016 , 87, 9-19	3.9	12
81	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
80	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
79	Prediction of monthly regional groundwater levels through hybrid soft-computing techniques. <i>Journal of Hydrology</i> , 2016 , 541, 965-976	6	80

78	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
77	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
76	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
75	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
74	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
73	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
72	Regional flood inundation nowcast using hybrid SOM and dynamic neural networks. <i>Journal of Hydrology</i> , 2014 , 519, 476-489	6	59
71	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
70	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
69	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
68	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
67	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
66	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
65	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
64	A systematical water allocation scheme for drought mitigation. <i>Journal of Hydrology</i> , 2013 , 507, 124-1336		24
63	Reinforced recurrent neural networks for multi-step-ahead flood forecasts. <i>Journal of Hydrology</i> , 2013 , 497, 71-79	6	86
62	Regional estimation of groundwater arsenic concentrations through systematical dynamic-neural modeling. <i>Journal of Hydrology</i> , 2013 , 499, 265-274	6	29
61	A self-organizing radial basis network for estimating riverine fish diversity. <i>Journal of Hydrology</i> , 2013 , 476, 280-289	6	29

60	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
59	Estimation of riverbed grain-size distribution using image-processing techniques. <i>Journal of Hydrology</i> , 2012 , 440-441, 102-112	6	28
58	A hybrid artificial neural network-based agri-economic model for predicting typhoon-induced losses. <i>Natural Hazards</i> , 2012 , 63, 769-787	3	3
57	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
56	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
55	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
54	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
53	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
52	Identifying natural flow regimes using fish communities. <i>Journal of Hydrology</i> , 2011 , 409, 328-336	6	14
51	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	
50	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
49	Dynamic factor analysis for estimating ground water arsenic trends. <i>Journal of Environmental Quality</i> , 2010 , 39, 176-84	3.4	22
48	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
47	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
46	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
45	Constrained genetic algorithms for optimizing multi-use reservoir operation. <i>Journal of Hydrology</i> , 2010 , 390, 66-74	6	104
44	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
43	Evolutionary artificial neural networks for hydrological systems forecasting. <i>Journal of Hydrology</i> , 2009 , 367, 125-137	6	117

42	Defining the ecological hydrology of Taiwan Rivers using multivariate statistical methods. <i>Journal of Hydrology</i> , 2009 , 376, 235-242	6	17
41	Multi-objective evolutionary algorithm for operating parallel reservoir system. <i>Journal of Hydrology</i> , 2009 , 377, 12-20	6	113
40	Integrating hydrometeorological information for rainfall-runoff modelling by artificial neural networks. <i>Hydrological Processes</i> , 2009 , 23, 1650-1659	3.3	32
39	Auto-configuring radial basis function networks for chaotic time series and flood forecasting. <i>Hydrological Processes</i> , 2009 , 23, 2450-2459	3.3	25
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	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
36	Counterpropagation fuzzy-neural network for city flood control system. <i>Journal of Hydrology</i> , 2008 , 358, 24-34	6	35
35	Assessing the ecological hydrology of natural flow conditions in Taiwan. <i>Journal of Hydrology</i> , 2008 , 354, 75-89	6	34
34	Intelligent reservoir operation system based on evolving artificial neural networks. <i>Advances in Water Resources</i> , 2008 , 31, 926-936	4.7	67
33	Acute toxicity and bioaccumulation of arsenic in freshwater clam <i>Corbicula fluminea</i> . <i>Environmental Toxicology</i> , 2008 , 23, 702-11	4.2	25
32	Neural network modelling for mean velocity and turbulence intensities of steep channel flows. <i>Hydrological Processes</i> , 2008 , 22, 265-274	3.3	10
31	Dynamic ANN for precipitation estimation and forecasting from radar observations. <i>Journal of Hydrology</i> , 2007 , 334, 250-261	6	71
30	Merging multiple precipitation sources for flash flood forecasting. <i>Journal of Hydrology</i> , 2007 , 340, 183-196	6	73
29	Enforced self-organizing map neural networks for river flood forecasting. <i>Hydrological Processes</i> , 2007 , 21, 741-749	3.3	46
28	Shared near neighbours neural network model: a debris flow warning system. <i>Hydrological Processes</i> , 2007 , 21, 1968-1976	3.3	10
27	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
26	Multi-step-ahead neural networks for flood forecasting. <i>Hydrological Sciences Journal</i> , 2007 , 52, 114-130	3.5	96
25	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

24	The strategy of building a flood forecast model by neuro-fuzzy network. <i>Hydrological Processes</i> , 2006 , 20, 1525-1540	3-3	96
23	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, 297-311] <i>Journal of Hydrology</i> , 2005 , 314, 204-206	6	1
22	Fuzzy exemplar-based inference system for flood forecasting. <i>Water Resources Research</i> , 2005 , 41,	5-4	21
21	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
20	Optimizing the reservoir operating rule curves by genetic algorithms. <i>Hydrological Processes</i> , 2005 , 19, 2277-2289	3-3	195
19	Modelling combined open channel flow by artificial neural networks. <i>Hydrological Processes</i> , 2005 , 19, 3747-3762	3-3	39
18	A two-step-ahead recurrent neural network for stream-flow forecasting. <i>Hydrological Processes</i> , 2004 , 18, 81-92	3-3	67
17	Comparison of static-feedforward and dynamic-feedback neural networks for rainfall-runoff modeling. <i>Journal of Hydrology</i> , 2004 , 290, 297-311	6	162
16	Optimization of operation rule curves and flushing schedule in a reservoir. <i>Hydrological Processes</i> , 2003 , 17, 1623-1640	3-3	59
15	Estuary water-stage forecasting by using radial basis function neural network. <i>Journal of Hydrology</i> , 2003 , 270, 158-166	6	65
14	Reservoir operation using grey fuzzy stochastic dynamic programming. <i>Hydrological Processes</i> , 2002 , 16, 2395-2408	3-3	40
13	An efficient parallel algorithm for LISSOM neural network. <i>Parallel Computing</i> , 2002 , 28, 1611-1633	1	6
12	Fuzzy Clustering Neural Network as Flood Forecasting Model 2002 , 33, 275-290		4
11	Counterpropagation fuzzy-neural network for streamflow reconstruction. <i>Hydrological Processes</i> , 2001 , 15, 219-232	3-3	36
10	Intelligent control for modelling of real-time reservoir operation. <i>Hydrological Processes</i> , 2001 , 15, 1621-1634	3-3	183
9	A counterpropagation fuzzy-neural network modeling approach to real time streamflow prediction. <i>Journal of Hydrology</i> , 2001 , 245, 153-164	6	192
8	Artificial Neural-Fuzzy Inference Networks as Flood Forecasting Models 2001 , 1		
7	Counterpropagation fuzzy-neural network for streamflow reconstruction 2001 , 15, 219		1

6	The exemplar-aided constructor of hyper-rectangles learning algorithm for stream flow estimation. <i>Hydrological Processes</i> , 2000 , 14, 79-90	3.3	
5	A self-organization algorithm for real-time flood forecast. <i>Hydrological Processes</i> , 1999 , 13, 123-138	3.3	40
4	Real-Coded Genetic Algorithm for Rule-Based Flood Control Reservoir Management. <i>Water Resources Management</i> , 1998 , 12, 185-198	3.7	98
3	An exemplar-based learning model for hydrosystems prediction and categorization. <i>Journal of Hydrology</i> , 1995 , 169, 229-241	6	4
2	Estimation of periodicities in hydrologic data. <i>Stochastic Hydrology & Hydraulics</i> , 1992 , 6, 270-288		4
1	Systematic parameter estimation of watershed acidification model. <i>Hydrological Processes</i> , 1992 , 6, 29-44.3		21