

# Li-Chiu Chang

## List of Publications by Year in Descending Order

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

47  
papers

2,446  
citations

29  
h-index

48  
g-index

48  
ext. papers

2,865  
ext. citations

6  
avg, IF

5.46  
L-index

#	Paper	IF	Citations
47	Real-time image-based air quality estimation by deep learning neural networks.. <i>Journal of Environmental Management</i> , <b>2022</b> , 307, 114560	7.9	0
46	Deep neural networks for spatiotemporal PM forecasts based on atmospheric chemical transport model output and monitoring data.. <i>Environmental Pollution</i> , <b>2022</b> , 119348	9.3	0
45	A Combined O/U-Tube Oscillatory Water Tunnel for Fluid Flow and Sediment Transport Studies: The Hydrodynamics and Genetic Algorithm. <i>Water (Switzerland)</i> , <b>2022</b> , 14, 1767	3	
44	Explore training self-organizing map methods for clustering high-dimensional flood inundation maps. <i>Journal of Hydrology</i> , <b>2021</b> , 595, 125655	6	3
43	Explore Regional PM2.5 Features and Compositions Causing Health Effects in Taiwan. <i>Environmental Management</i> , <b>2021</b> , 67, 176-191	3.1	11
42	Explore spatio-temporal PM2.5 features in northern Taiwan using machine learning techniques. <i>Science of the Total Environment</i> , <b>2020</b> , 736, 139656	10.2	23
41	Seamless integration of convolutional and back-propagation neural networks for regional multi-step-ahead PM2.5 forecasting. <i>Journal of Cleaner Production</i> , <b>2020</b> , 261, 121285	10.3	35
40	Self-organizing maps of typhoon tracks allow for flood forecasts up to two days in advance. <i>Nature Communications</i> , <b>2020</b> , 11, 1983	17.4	17
39	Explore a Multivariate Bayesian Uncertainty Processor driven by artificial neural networks for probabilistic PM forecasting. <i>Science of the Total Environment</i> , <b>2020</b> , 711, 134792	10.2	12
38	Prospect for small-hydropower installation settled upon optimal water allocation: An action to stimulate synergies of water-food-energy nexus. <i>Applied Energy</i> , <b>2019</b> , 238, 668-682	10.7	30
37	AI-based design of urban stormwater detention facilities accounting for carryover storage. <i>Journal of Hydrology</i> , <b>2019</b> , 575, 1111-1122	6	4
36	Building an Intelligent Hydroinformatics Integration Platform for Regional Flood Inundation Warning Systems. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 9	3	25
35	Modeling and Investigating the Mechanisms of Groundwater Level Variation in the Jhuoshui River Basin of Central Taiwan. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1554	3	3
34	Multi-output support vector machine for regional multi-step-ahead PM forecasting. <i>Science of the Total Environment</i> , <b>2019</b> , 651, 230-240	10.2	69
33	Explore a deep learning multi-output neural network for regional multi-step-ahead air quality forecasts. <i>Journal of Cleaner Production</i> , <b>2019</b> , 209, 134-145	10.3	112
32	Exploring the spatio-temporal interrelation between groundwater and surface water by using the self-organizing maps. <i>Journal of Hydrology</i> , <b>2018</b> , 556, 131-142	6	39
31	Building ANN-Based Regional Multi-Step-Ahead Flood Inundation Forecast Models. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 1283	3	53

30	Conservation of groundwater from over-exploitation-Scientific analyses for groundwater resources management. <i>Science of the Total Environment</i> , <b>2017</b> , 598, 828-838	10.2	24
29	Estimating spatio-temporal dynamics of stream total phosphate concentration by soft computing techniques. <i>Science of the Total Environment</i> , <b>2016</b> , 562, 228-236	10.2	17
28	Prediction of monthly regional groundwater levels through hybrid soft-computing techniques. <i>Journal of Hydrology</i> , <b>2016</b> , 541, 965-976	6	80
27	AI techniques for optimizing multi-objective reservoir operation upon human and riverine ecosystem demands. <i>Journal of Hydrology</i> , <b>2015</b> , 530, 634-644	6	57
26	Investigating the interactive mechanisms between surface water and groundwater over the Jhuoshuei river basin in central Taiwan. <i>Paddy and Water Environment</i> , <b>2014</b> , 12, 365-377	1.6	8
25	Regional flood inundation nowcast using hybrid SOM and dynamic neural networks. <i>Journal of Hydrology</i> , <b>2014</b> , 519, 476-489	6	59
24	Reinforced recurrent neural networks for multi-step-ahead flood forecasts. <i>Journal of Hydrology</i> , <b>2013</b> , 497, 71-79	6	86
23	Reinforced two-step-ahead weight adjustment technique for online training of recurrent neural networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2012</b> , 23, 1269-78	10.3	41
22	Multi-tier interactive genetic algorithms for the optimization of long-term reservoir operation. <i>Advances in Water Resources</i> , <b>2011</b> , 34, 1343-1351	4.7	41
21	Assessing the effort of meteorological variables for evaporation estimation by self-organizing map neural network. <i>Journal of Hydrology</i> , <b>2010</b> , 384, 118-129	6	67
20	Clustering-based hybrid inundation model for forecasting flood inundation depths. <i>Journal of Hydrology</i> , <b>2010</b> , 385, 257-268	6	53
19	Constrained genetic algorithms for optimizing multi-use reservoir operation. <i>Journal of Hydrology</i> , <b>2010</b> , 390, 66-74	6	104
18	Forecasting of ozone episode days by cost-sensitive neural network methods. <i>Science of the Total Environment</i> , <b>2009</b> , 407, 2124-35	10.2	39
17	Multi-objective evolutionary algorithm for operating parallel reservoir system. <i>Journal of Hydrology</i> , <b>2009</b> , 377, 12-20	6	113
16	Auto-configuring radial basis function networks for chaotic time series and flood forecasting. <i>Hydrological Processes</i> , <b>2009</b> , 23, 2450-2459	3.3	25
15	Counterpropagation fuzzy-neural network for city flood control system. <i>Journal of Hydrology</i> , <b>2008</b> , 358, 24-34	6	35
14	Guiding rational reservoir flood operation using penalty-type genetic algorithm. <i>Journal of Hydrology</i> , <b>2008</b> , 354, 65-74	6	75
13	Enforced self-organizing map neural networks for river flood forecasting. <i>Hydrological Processes</i> , <b>2007</b> , 21, 741-749	3.3	46

12	Using a hybrid genetic algorithm simulated annealing algorithm for fuzzy programming of reservoir operation. <i>Hydrological Processes</i> , <b>2007</b> , 21, 3162-3172	3-3	37
11	Multi-step-ahead neural networks for flood forecasting. <i>Hydrological Sciences Journal</i> , <b>2007</b> , 52, 114-130	3-5	96
10	The strategy of building a flood forecast model by neuro-fuzzy network. <i>Hydrological Processes</i> , <b>2006</b> , 20, 1525-1540	3-3	96
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, 297-311. <i>Journal of Hydrology</i> , <b>2005</b> , 314, 204-206	6	1
8	Fuzzy exemplar-based inference system for flood forecasting. <i>Water Resources Research</i> , <b>2005</b> , 41,	5-4	21
7	Intelligent control for modeling of real-time reservoir operation, part II: artificial neural network with operating rule curves. <i>Hydrological Processes</i> , <b>2005</b> , 19, 1431-1444	3-3	77
6	Optimizing the reservoir operating rule curves by genetic algorithms. <i>Hydrological Processes</i> , <b>2005</b> , 19, 2277-2289	3-3	195
5	A two-step-ahead recurrent neural network for stream-flow forecasting. <i>Hydrological Processes</i> , <b>2004</b> , 18, 81-92	3-3	67
4	Comparison of static-feedforward and dynamic-feedback neural networks for rainfall-runoff modeling. <i>Journal of Hydrology</i> , <b>2004</b> , 290, 297-311	6	162
3	Real-time recurrent learning neural network for stream-flow forecasting. <i>Hydrological Processes</i> , <b>2002</b> , 16, 2577-2588	3-3	98
2	An efficient parallel algorithm for LISSOM neural network. <i>Parallel Computing</i> , <b>2002</b> , 28, 1611-1633	1	6
1	Intelligent control for modelling of real-time reservoir operation. <i>Hydrological Processes</i> , <b>2001</b> , 15, 1621-1634	3-3	183