Wei-Bo Chen

List of Publications by Year
in descending order

73	1,499	257357	360920
papers	citations	24 h-index	35 g-index

75	75	75	1289
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Artificial neural network modeling of dissolved oxygen in reservoir. Environmental Monitoring and Assessment, 2014, 186, 1203-1217.	1.3	85
2	Modeling Flood Inundation Induced by River Flow and Storm Surges over a River Basin. Water (Switzerland), 2014, 6, 3182-3199.	1.2	60
3	Modeling the influence of river discharge on salt intrusion and residual circulation in Danshuei River estuary, Taiwan. Continental Shelf Research, 2007, 27, 900-921.	0.9	59
4	Numerical determination of residence time and age in a partially mixed estuary using three-dimensional hydrodynamic model. Continental Shelf Research, 2008, 28, 1068-1088.	0.9	57
5	Wind forcing effect on hindcasting of typhoon-driven extreme waves. Ocean Engineering, 2019, 188, 106260.	1.9	57
6	Water Quality Modeling in Reservoirs Using Multivariate Linear Regression and Two Neural Network Models. Advances in Artificial Neural Systems, 2015, 2015, 1-12.	1.0	54
7	Flood risk influenced by the compound effect of storm surge and rainfall under climate change for low-lying coastal areas. Science of the Total Environment, 2021, 764, 144439.	3.9	53
8	Using a three-dimensional particle-tracking model to estimate the residence time and age of water in a tidal estuary. Computers and Geosciences, 2011, 37, 1148-1161.	2.0	49
9	Quantifying the contribution of nonlinear interactions to storm tide simulations during a super typhoon event. Ocean Engineering, 2019, 194, 106661.	1.9	48
10	Numerical Simulation of Large Wave Heights from Super Typhoon Nepartak (2016) in the Eastern Waters of Taiwan. Journal of Marine Science and Engineering, 2020, 8, 217.	1.2	47
11	Effect of inlet modelling on surface drainage in coupled urban flood simulation. Journal of Hydrology, 2018, 562, 168-180.	2.3	45
12	Modeling assessment of a saltwater intrusion and a transport time scale response to sea-level rise in a tidal estuary. Environmental Fluid Mechanics, 2015, 15, 491-514.	0.7	41
13	Generating potential risk maps for typhoon-induced waves along the coast of Taiwan. Ocean Engineering, 2018, 163, 1-14.	1.9	40
14	Predicting typhoon-induced storm surge tide with a two-dimensional hydrodynamic model and artificial neural network model. Natural Hazards and Earth System Sciences, 2012, 12, 3799-3809.	1.5	39
15	Impact of phosphorus load reduction on water quality in a stratified reservoir-eutrophication modeling study. Environmental Monitoring and Assessment, 2009, 159, 393-406.	1.3	38
16	Simulation of Typhoon-Induced Storm Tides and Wind Waves for the Northeastern Coast of Taiwan Using a Tideâ€“Surgeâ€“Wave Coupled Model. Water (Switzerland), 2017, 9, 549.	1.2	35
17	Comparison of ANN approach with 2D and 3D hydrodynamic models for simulating estuary water stage. Advances in Engineering Software, 2012, 45, 69-79.	1.8	34
18	Modeling assessment of tidal current energy at Kinmen Island, Taiwan. Renewable Energy, 2013, 50, 1073-1082.	4.3	32

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19	Investigating the fate and transport of fecal coliform contamination in a tidal estuarine system using a three-dimensional model. Marine Pollution Bulletin, 2017, 116, 365-384.	2.3	32
20	Assessment of storm surge inundation and potential hazard maps for the southern coast of Taiwan. Natural Hazards, 2016, 82, 591-616.	1.6	30
21	Prediction of water temperature in a subtropical subalpine lake using an artificial neural network and three-dimensional circulation models. Computers and Geosciences, 2012, 45, 13-25.	2.0	27
22	Modeling Evaluation of Tidal Stream Energy and the Impacts of Energy Extraction on Hydrodynamics in the Taiwan Strait. Energies, 2013, 6, 2191-2203.	1.6	27
23	Hazard Assessment of Typhoon-Driven Storm Waves in the Nearshore Waters of Taiwan. Water (Switzerland), 2018, 10, 926.	1.2	27
24	Assessing the Potential Highest Storm Tide Hazard in Taiwan Based on 40-Year Historical Typhoon Surge Hindcasting. Atmosphere, 2019, 10, 346.	1.0	27
25	Modeling investigation of suspended sediment transport in a tidal estuary using a three-dimensional model. Applied Mathematical Modelling, 2015, 39, 2570-2586.	2.2	26
26	Modeling residence time response to freshwater discharge in a mesotidal estuary, Taiwan. Journal of Marine Systems, 2008, 74, 295-314.	0.9	24
27	Numerical investigation of wave energy resources and hotspots in the surrounding waters of Taiwan. Renewable Energy, 2018, 118, 814-824.	4.3	21
28	Comparison of Rainfall-Runoff Simulation between Support Vector Regression and HEC-HMS for a Rural Watershed in Taiwan. Water (Switzerland), 2022, 14, 191.	1.2	21
29	Tidal Current Power Resources and Influence of Sea-Level Rise in the Coastal Waters of Kinmen Island, Taiwan. Energies, 2017, 10, 652.	1.6	20
30	Assessing the influence of sea level rise on tidal power output and tidal energy dissipation near a channel. Renewable Energy, 2017, 101, 603-616.	4.3	17
31	Dynamic routing modeling for flash flood forecast in river system. Natural Hazards, 2010, 52, 519-537.	1.6	15
32	Modeling the interaction between tides and storm surges for the Taiwan coast. Environmental Fluid Mechanics, 2016, 16, 721-745.	0.7	15
33	Modelling the impact of wind stress and river discharge on Danshuei River plume. Applied Mathematical Modelling, 2008, 32, 1255-1280.	2.2	14
34	Water Quality Modeling in a Tidal Estuarine System Using a Three-Dimensional Model. Environmental Engineering Science, 2011, 28, 443-459.	0.8	14
35	Prediction of River Stage Using Multistep-Ahead Machine Learning Techniques for a Tidal River of Taiwan. Water (Switzerland), 2021, 13, 920.	1.2	14
36	Computational investigation of typhoon-induced storm surges along the coast of Taiwan. Natural Hazards, 2012, 64, 1161-1185.	1.6	13

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37	Coupling of a one-dimensional river routing model and a three-dimensional ocean model to predict overbank flows in a complex riverâ€“ocean system. Applied Mathematical Modelling, 2013, 37, 6163-6176.	2.2	13
38	Modeling the Influence of River Cross-Section Data on a River Stage Using a Two-Dimensional/Three-Dimensional Hydrodynamic Model. Water (Switzerland), 2017, 9, 203.	1.2	13
39	Identifying the Optimal Offshore Areas for Wave Energy Converter Deployments in Taiwanese Waters Based on 12-Year Model Hindcasts. Energies, 2018, 11, 499.	1.6	13
40	On the Sensitivity of Typhoon Wave Simulations to Tidal Elevation and Current. Journal of Marine Science and Engineering, 2020, 8, 731.	1.2	13
41	Numerical Analysis of the Effect of Binary Typhoons on Ocean Surface Waves in Waters Surrounding Taiwan. Frontiers in Marine Science, 2021, 8, .	1.2	12
42	Real-time observation and prediction of physical processes in a typhoon-affected lake. Paddy and Water Environment, 2012, 10, 17-30.	1.0	11
43	Modeling hydrothermal, suspended solids transport and residence time in a deep reservoir. International Journal of Environmental Science and Technology, 2013, 10, 251-260.	1.8	11
44	Modeling the transport and distribution of lead in tidal Keelung River estuary. Environmental Earth Sciences, 2012, 65, 39-47.	1.3	10
45	Modeling investigation of asymmetric tidal mixing and residual circulation in a partially stratified estuary. Environmental Fluid Mechanics, 2016, 16, 167-191.	0.7	10
46	Monitoring sediment oxygen demand for assessment of dissolved oxygen distribution in river. Environmental Monitoring and Assessment, 2012, 184, 5589-5599.	1.3	9
47	The influences of weir construction on salt water intrusion and water quality in a tidal estuaryâ€”assessment with modeling study. Environmental Monitoring and Assessment, 2013, 185, 8169-8184.	1.3	9
48	An Operational Forecasting System for Flash Floods in Mountainous Areas in Taiwan. Water (Switzerland), 2019, 11, 2100.	1.2	9
49	Run-up, inundation, and sediment characteristics of the 22ÂDecemberÂ2018 Sunda Strait tsunami, Indonesia. Natural Hazards and Earth System Sciences, 2020, 20, 933-946.	1.5	9
50	An Operational High-Performance Forecasting System for City-Scale Pluvial Flash Floods in the Southwestern Plain Areas of Taiwan. Water (Switzerland), 2021, 13, 405.	1.2	9
51	On-Site Investigations of Coastal Erosion and Accretion for the Northeast of Taiwan. Journal of Marine Science and Engineering, 2022, 10, 282.	1.2	9
52	Particle release transport in Danshuei River estuarine system and adjacent coastal ocean: a modeling assessment. Environmental Monitoring and Assessment, 2010, 168, 407-428.	1.3	8
53	The Taiwan Climate Change Projection Information and Adaptation Knowledge Platform: A Decade of Climate Research. Water (Switzerland), 2022, 14, 358.	1.2	8
54	Modelling effects of realignment of Keelung River, Taiwan. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2008, 161, 73-87.	1.4	7

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55	A comprehensive disaster impact assessment of extreme rainfall events under climate change: a case study in Zheng-wen river basin, Taiwan. Environmental Earth Sciences, 2016, 75, 1.	1.3	7
56	Effect of Depth-Induced Breaking on Wind Wave Simulations in Shallow Nearshore Waters off Northern Taiwan during the Passage of Two Super Typhoons. Journal of Marine Science and Engineering, 2021, 9, 706.	1.2	7
57	Measurement of Sediment Oxygen Demand to Simulate Dissolved Oxygen Distribution: Case Study in the Main Danshuei River Estuary. Environmental Engineering Science, 2009, 26, 1701-1711.	0.8	6
58	Numerical modeling of hydrodynamic and hydrothermal characteristics in subtropical alpine lake. Applied Mathematical Modelling, 2012, 36, 2094-2109.	2.2	6
59	Using water quality variables to predict light attenuation coefficient: case study in Shihmen Reservoir. Paddy and Water Environment, 2010, 8, 267-275.	1.0	5
60	Benefit analysis of flood adaptation under climate change scenario. Natural Hazards, 2019, 95, 547-568.	1.6	5
61	Predicting River Embankment Failure Caused by Toe Scour Considering 1D and 2D Hydraulic Models: A Case Study of Da-An River, Taiwan. Water (Switzerland), 2020, 12, 1026.	1.2	5
62	Flow measurement with multiâ€instrumentation in a tidalâ€affected river. Water and Environment Journal, 2011, 25, 563-572.	1.0	4
63	Assessment of Offshore Wave Energy Resources in Taiwan Using Long-Term Dynamically Downscaled Winds from a Third-Generation Reanalysis Product. Energies, 2021, 14, 653.	1.6	4
64	INFLUENCES OF DISCHARGE REDUCTIONS ON SALT WATER INTRUSION AND RESIDUAL CIRCULATION IN DANSHUEI RIVER. Journal of Marine Science and Technology, 2011, 19, .	0.1	3
65	Different turbulence models for stratified flow and salinity. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2010, 163, 117-133.	1.4	2
66	Improving river stage forecast by bed reconstruction in sinuous bends. Journal of Hydroinformatics, 2018, 20, 960-974.	1.1	2
67	Storm Tide and Wave Simulations and Assessment. Journal of Marine Science and Engineering, 2021, 9, 84.	1.2	2
68	Assessing the Influences of a Flood Diversion Project on Mitigating River Stage, Inundation Extent and Economic Loss. Water (Switzerland), 2015, 7, 1731-1750.	1.2	1
69	Numerical Simulation of Hydrodynamics and Residence Time in Alpine Lake with Three-Dimensional Model. Springer Water, 2016, , 409-421.	0.2	0
70	The Characteristics of Coastal Highway Wave Attack and Nearshore Morphology: Provincial Highway No. 9, Taiwan. Water (Switzerland), 2020, 12, 3274.	1.2	0
71	Measurement of sediment oxygen demand for modeling the dissolved oxygen distribution in a Subalpine lake. International Journal of Physical Sciences, 2012, 7, .	0.1	0
72	Storm Tide and Wave Simulations and Assessment II. Journal of Marine Science and Engineering, 2022, 10, 379.	1.2	0

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73	Mitigation Techniques for Water-Induced Natural Disasters: The State of the Art. Water (Switzerland), 2022, 14, 1247.	1.2	0