

Wei-Bo Chen

List of Publications by Year in descending order

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73
papers

1,499
citations

257357

24
h-index

360920

35
g-index

75
all docs

75
docs citations

75
times ranked

1289
citing authors

#	ARTICLE	IF	CITATIONS
1	The Taiwan Climate Change Projection Information and Adaptation Knowledge Platform: A Decade of Climate Research. <i>Water (Switzerland)</i> , 2022, 14, 358.	1.2	8
2	Comparison of Rainfall-Runoff Simulation between Support Vector Regression and HEC-HMS for a Rural Watershed in Taiwan. <i>Water (Switzerland)</i> , 2022, 14, 191.	1.2	21
3	On-Site Investigations of Coastal Erosion and Accretion for the Northeast of Taiwan. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 282.	1.2	9
4	Storm Tide and Wave Simulations and Assessment II. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 379.	1.2	0
5	Mitigation Techniques for Water-Induced Natural Disasters: The State of the Art. <i>Water (Switzerland)</i> , 2022, 14, 1247.	1.2	0
6	Assessment of Offshore Wave Energy Resources in Taiwan Using Long-Term Dynamically Downscaled Winds from a Third-Generation Reanalysis Product. <i>Energies</i> , 2021, 14, 653.	1.6	4
7	Storm Tide and Wave Simulations and Assessment. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 84.	1.2	2
8	An Operational High-Performance Forecasting System for City-Scale Pluvial Flash Floods in the Southwestern Plain Areas of Taiwan. <i>Water (Switzerland)</i> , 2021, 13, 405.	1.2	9
9	Prediction of River Stage Using Multistep-Ahead Machine Learning Techniques for a Tidal River of Taiwan. <i>Water (Switzerland)</i> , 2021, 13, 920.	1.2	14
10	Flood risk influenced by the compound effect of storm surge and rainfall under climate change for low-lying coastal areas. <i>Science of the Total Environment</i> , 2021, 764, 144439.	3.9	53
11	Effect of Depth-Induced Breaking on Wind Wave Simulations in Shallow Nearshore Waters off Northern Taiwan during the Passage of Two Super Typhoons. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 706.	1.2	7
12	Numerical Analysis of the Effect of Binary Typhoons on Ocean Surface Waves in Waters Surrounding Taiwan. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	12
13	On the Sensitivity of Typhoon Wave Simulations to Tidal Elevation and Current. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 731.	1.2	13
14	The Characteristics of Coastal Highway Wave Attack and Nearshore Morphology: Provincial Highway No. 9, Taiwan. <i>Water (Switzerland)</i> , 2020, 12, 3274.	1.2	0
15	Run-up, inundation, and sediment characteristics of the 22 nd December 2018 Sunda Strait tsunami, Indonesia. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 933-946.	1.5	9
16	Numerical Simulation of Large Wave Heights from Super Typhoon Nepartak (2016) in the Eastern Waters of Taiwan. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 217.	1.2	47
17	Predicting River Embankment Failure Caused by Toe Scour Considering 1D and 2D Hydraulic Models: A Case Study of Da-An River, Taiwan. <i>Water (Switzerland)</i> , 2020, 12, 1026.	1.2	5
18	Assessing the Potential Highest Storm Tide Hazard in Taiwan Based on 40-Year Historical Typhoon Surge Hindcasting. <i>Atmosphere</i> , 2019, 10, 346.	1.0	27

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19	An Operational Forecasting System for Flash Floods in Mountainous Areas in Taiwan. <i>Water (Switzerland)</i> , 2019, 11, 2100.	1.2	9
20	Wind forcing effect on hindcasting of typhoon-driven extreme waves. <i>Ocean Engineering</i> , 2019, 188, 106260.	1.9	57
21	Quantifying the contribution of nonlinear interactions to storm tide simulations during a super typhoon event. <i>Ocean Engineering</i> , 2019, 194, 106661.	1.9	48
22	Benefit analysis of flood adaptation under climate change scenario. <i>Natural Hazards</i> , 2019, 95, 547-568.	1.6	5
23	Improving river stage forecast by bed reconstruction in sinuous bends. <i>Journal of Hydroinformatics</i> , 2018, 20, 960-974.	1.1	2
24	Numerical investigation of wave energy resources and hotspots in the surrounding waters of Taiwan. <i>Renewable Energy</i> , 2018, 118, 814-824.	4.3	21
25	Hazard Assessment of Typhoon-Driven Storm Waves in the Nearshore Waters of Taiwan. <i>Water (Switzerland)</i> , 2018, 10, 926.	1.2	27
26	Generating potential risk maps for typhoon-induced waves along the coast of Taiwan. <i>Ocean Engineering</i> , 2018, 163, 1-14.	1.9	40
27	Identifying the Optimal Offshore Areas for Wave Energy Converter Deployments in Taiwanese Waters Based on 12-Year Model Hindcasts. <i>Energies</i> , 2018, 11, 499.	1.6	13
28	Effect of inlet modelling on surface drainage in coupled urban flood simulation. <i>Journal of Hydrology</i> , 2018, 562, 168-180.	2.3	45
29	Investigating the fate and transport of fecal coliform contamination in a tidal estuarine system using a three-dimensional model. <i>Marine Pollution Bulletin</i> , 2017, 116, 365-384.	2.3	32
30	Assessing the influence of sea level rise on tidal power output and tidal energy dissipation near a channel. <i>Renewable Energy</i> , 2017, 101, 603-616.	4.3	17
31	Modeling the Influence of River Cross-Section Data on a River Stage Using a Two-Dimensional/Three-Dimensional Hydrodynamic Model. <i>Water (Switzerland)</i> , 2017, 9, 203.	1.2	13
32	Simulation of Typhoon-Induced Storm Tides and Wind Waves for the Northeastern Coast of Taiwan Using a Tide-Surge-Wave Coupled Model. <i>Water (Switzerland)</i> , 2017, 9, 549.	1.2	35
33	Tidal Current Power Resources and Influence of Sea-Level Rise in the Coastal Waters of Kinmen Island, Taiwan. <i>Energies</i> , 2017, 10, 652.	1.6	20
34	A comprehensive disaster impact assessment of extreme rainfall events under climate change: a case study in Zheng-wen river basin, Taiwan. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	7
35	Modeling investigation of asymmetric tidal mixing and residual circulation in a partially stratified estuary. <i>Environmental Fluid Mechanics</i> , 2016, 16, 167-191.	0.7	10
36	Modeling the interaction between tides and storm surges for the Taiwan coast. <i>Environmental Fluid Mechanics</i> , 2016, 16, 721-745.	0.7	15

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37	Assessment of storm surge inundation and potential hazard maps for the southern coast of Taiwan. <i>Natural Hazards</i> , 2016, 82, 591-616.	1.6	30
38	Numerical Simulation of Hydrodynamics and Residence Time in Alpine Lake with Three-Dimensional Model. <i>Springer Water</i> , 2016, , 409-421.	0.2	0
39	Assessing the Influences of a Flood Diversion Project on Mitigating River Stage, Inundation Extent and Economic Loss. <i>Water (Switzerland)</i> , 2015, 7, 1731-1750.	1.2	1
40	Water Quality Modeling in Reservoirs Using Multivariate Linear Regression and Two Neural Network Models. <i>Advances in Artificial Neural Systems</i> , 2015, 2015, 1-12.	1.0	54
41	Modeling investigation of suspended sediment transport in a tidal estuary using a three-dimensional model. <i>Applied Mathematical Modelling</i> , 2015, 39, 2570-2586.	2.2	26
42	Modeling assessment of a saltwater intrusion and a transport time scale response to sea-level rise in a tidal estuary. <i>Environmental Fluid Mechanics</i> , 2015, 15, 491-514.	0.7	41
43	Modeling Flood Inundation Induced by River Flow and Storm Surges over a River Basin. <i>Water (Switzerland)</i> , 2014, 6, 3182-3199.	1.2	60
44	Artificial neural network modeling of dissolved oxygen in reservoir. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 1203-1217.	1.3	85
45	Modeling hydrothermal, suspended solids transport and residence time in a deep reservoir. <i>International Journal of Environmental Science and Technology</i> , 2013, 10, 251-260.	1.8	11
46	Modeling assessment of tidal current energy at Kinmen Island, Taiwan. <i>Renewable Energy</i> , 2013, 50, 1073-1082.	4.3	32
47	Coupling of a one-dimensional river routing model and a three-dimensional ocean model to predict overbank flows in a complex river-ocean system. <i>Applied Mathematical Modelling</i> , 2013, 37, 6163-6176.	2.2	13
48	The influences of weir construction on salt water intrusion and water quality in a tidal estuary—assessment with modeling study. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 8169-8184.	1.3	9
49	Modeling Evaluation of Tidal Stream Energy and the Impacts of Energy Extraction on Hydrodynamics in the Taiwan Strait. <i>Energies</i> , 2013, 6, 2191-2203.	1.6	27
50	Computational investigation of typhoon-induced storm surges along the coast of Taiwan. <i>Natural Hazards</i> , 2012, 64, 1161-1185.	1.6	13
51	Numerical modeling of hydrodynamic and hydrothermal characteristics in subtropical alpine lake. <i>Applied Mathematical Modelling</i> , 2012, 36, 2094-2109.	2.2	6
52	Monitoring sediment oxygen demand for assessment of dissolved oxygen distribution in river. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 5589-5599.	1.3	9
53	Prediction of water temperature in a subtropical subalpine lake using an artificial neural network and three-dimensional circulation models. <i>Computers and Geosciences</i> , 2012, 45, 13-25.	2.0	27
54	Predicting typhoon-induced storm surge tide with a two-dimensional hydrodynamic model and artificial neural network model. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 3799-3809.	1.5	39

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55	Comparison of ANN approach with 2D and 3D hydrodynamic models for simulating estuary water stage. <i>Advances in Engineering Software</i> , 2012, 45, 69-79.	1.8	34
56	Modeling the transport and distribution of lead in tidal Keelung River estuary. <i>Environmental Earth Sciences</i> , 2012, 65, 39-47.	1.3	10
57	Real-time observation and prediction of physical processes in a typhoon-affected lake. <i>Paddy and Water Environment</i> , 2012, 10, 17-30.	1.0	11
58	Measurement of sediment oxygen demand for modeling the dissolved oxygen distribution in a Subalpine lake. <i>International Journal of Physical Sciences</i> , 2012, 7, .	0.1	0
59	Water Quality Modeling in a Tidal Estuarine System Using a Three-Dimensional Model. <i>Environmental Engineering Science</i> , 2011, 28, 443-459.	0.8	14
60	Flow measurement with multi-instrumentation in a tidal-affected river. <i>Water and Environment Journal</i> , 2011, 25, 563-572.	1.0	4
61	Using a three-dimensional particle-tracking model to estimate the residence time and age of water in a tidal estuary. <i>Computers and Geosciences</i> , 2011, 37, 1148-1161.	2.0	49
62	INFLUENCES OF DISCHARGE REDUCTIONS ON SALT WATER INTRUSION AND RESIDUAL CIRCULATION IN DANSHUEI RIVER. <i>Journal of Marine Science and Technology</i> , 2011, 19, .	0.1	3
63	Using water quality variables to predict light attenuation coefficient: case study in Shihmen Reservoir. <i>Paddy and Water Environment</i> , 2010, 8, 267-275.	1.0	5
64	Dynamic routing modeling for flash flood forecast in river system. <i>Natural Hazards</i> , 2010, 52, 519-537.	1.6	15
65	Particle release transport in Danshuei River estuarine system and adjacent coastal ocean: a modeling assessment. <i>Environmental Monitoring and Assessment</i> , 2010, 168, 407-428.	1.3	8
66	Different turbulence models for stratified flow and salinity. <i>Proceedings of the Institution of Civil Engineers: Maritime Engineering</i> , 2010, 163, 117-133.	1.4	2
67	Measurement of Sediment Oxygen Demand to Simulate Dissolved Oxygen Distribution: Case Study in the Main Danshuei River Estuary. <i>Environmental Engineering Science</i> , 2009, 26, 1701-1711.	0.8	6
68	Impact of phosphorus load reduction on water quality in a stratified reservoir-eutrophication modeling study. <i>Environmental Monitoring and Assessment</i> , 2009, 159, 393-406.	1.3	38
69	Modelling the impact of wind stress and river discharge on Danshuei River plume. <i>Applied Mathematical Modelling</i> , 2008, 32, 1255-1280.	2.2	14
70	Modeling residence time response to freshwater discharge in a mesotidal estuary, Taiwan. <i>Journal of Marine Systems</i> , 2008, 74, 295-314.	0.9	24
71	Numerical determination of residence time and age in a partially mixed estuary using three-dimensional hydrodynamic model. <i>Continental Shelf Research</i> , 2008, 28, 1068-1088.	0.9	57
72	Modelling effects of realignment of Keelung River, Taiwan. <i>Proceedings of the Institution of Civil Engineers: Maritime Engineering</i> , 2008, 161, 73-87.	1.4	7

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73	Modeling the influence of river discharge on salt intrusion and residual circulation in Danshuei River estuary, Taiwan. <i>Continental Shelf Research</i> , 2007, 27, 900-921.	0.9	59