

Albert Chen

List of Publications by Year in descending order

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66
papers

3,095
citations

185998

28
h-index

161609

54
g-index

71
all docs

71
docs citations

71
times ranked

2380
citing authors

#	ARTICLE	IF	CITATIONS
1	Urban flood impact assessment: A state-of-the-art review. <i>Urban Water Journal</i> , 2015, 12, 14-29.	1.0	441
2	Inundation simulation for urban drainage basin with storm sewer system. <i>Journal of Hydrology</i> , 2000, 234, 21-37.	2.3	290
3	Comparison of 1D/1D and 1D/2D Coupled (Sewer/Surface) Hydraulic Models for Urban Flood Simulation. <i>Journal of Hydraulic Engineering</i> , 2009, 135, 495-504.	0.7	246
4	An integrated framework for high-resolution urban flood modelling considering multiple information sources and urban features. <i>Environmental Modelling and Software</i> , 2018, 107, 85-95.	1.9	150
5	A weighted cellular automata 2D inundation model for rapid flood analysis. <i>Environmental Modelling and Software</i> , 2016, 84, 378-394.	1.9	147
6	A novel approach to model dynamic flow interactions between storm sewer system and overland surface for different land covers in urban areas. <i>Journal of Hydrology</i> , 2015, 524, 662-679.	2.3	113
7	Formulation of a fast 2D urban pluvial flood model using a cellular automata approach. <i>Journal of Hydroinformatics</i> , 2013, 15, 676-686.	1.1	95
8	Sponge city practice in China: A review of construction, assessment, operational and maintenance. <i>Journal of Cleaner Production</i> , 2021, 280, 124963.	4.6	91
9	A 2D parallel diffusive wave model for floodplain inundation with variable time step (P-DWave). <i>Journal of Hydrology</i> , 2014, 517, 250-259.	2.3	84
10	Performance assessment of coupled green-grey-blue systems for Sponge City construction. <i>Science of the Total Environment</i> , 2020, 728, 138608.	3.9	64
11	Integrated 1D and 2D model for better assessing runoff quantity control of low impact development facilities on community scale. <i>Science of the Total Environment</i> , 2020, 720, 137630.	3.9	64
12	An integrated inundation model for highly developed urban areas. <i>Water Science and Technology</i> , 2005, 51, 221-229.	1.2	63
13	Calibration of a 1D/1D urban flood model using 1D/2D model results in the absence of field data. <i>Water Science and Technology</i> , 2011, 64, 1016-1024.	1.2	59
14	A coarse-grid approach to representing building blockage effects in 2D urban flood modelling. <i>Journal of Hydrology</i> , 2012, 426-427, 1-16.	2.3	59
15	From hazard to impact: flood damage assessment tools for mega cities. <i>Natural Hazards</i> , 2016, 82, 857-890.	1.6	55
16	An analysis of the combined consequences of pluvial and fluvial flooding. <i>Water Science and Technology</i> , 2010, 62, 1491-1498.	1.2	54
17	Impact of Flood Disasters on Taiwan in the Last Quarter Century. <i>Natural Hazards</i> , 2006, 37, 191-207.	1.6	52
18	System-focused risk identification and assessment for disaster preparedness: Dynamic threat analysis. <i>European Journal of Operational Research</i> , 2016, 254, 550-564.	3.5	51

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19	The effect of inclusion of inlets in dual drainage modelling. <i>Journal of Hydrology</i> , 2018, 559, 541-555.	2.3	49
20	Exploring the potential climate change impact on urban growth in London by a cellular automata-based Markov chain model. <i>Computers, Environment and Urban Systems</i> , 2018, 68, 121-132.	3.3	49
21	Multi-layered coarse grid modelling in 2D urban flood simulations. <i>Journal of Hydrology</i> , 2012, 470-471, 1-11.	2.3	48
22	Assessing real options in urban surface water flood risk management under climate change. <i>Natural Hazards</i> , 2018, 94, 1-18.	1.6	47
23	Modelling sewer discharge via displacement of manhole covers during flood events using 1D/2D SIPSON/P-DWave dual drainage simulations. <i>Urban Water Journal</i> , 2016, 13, 830-840.	1.0	45
24	Assessing the knock-on effects of flooding on road transportation. <i>Journal of Environmental Management</i> , 2019, 244, 48-60.	3.8	45
25	A comparison of three dual drainage models: shallow water vs local inertial vs diffusive wave. <i>Journal of Hydroinformatics</i> , 2017, 19, 331-348.	1.1	42
26	Assessing and visualising hazard impacts to enhance the resilience of Critical Infrastructures to urban flooding. <i>Science of the Total Environment</i> , 2020, 707, 136078.	3.9	40
27	Dynamic inundation simulation of storm water interaction between sewer system and overland flows. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an</i> , 2002, 25, 171-177.	0.6	37
28	Accuracy and Computational Efficiency of 2D Urban Surface Flood Modelling Based on Cellular Automata. <i>Procedia Engineering</i> , 2016, 154, 801-810.	1.2	33
29	Multi-objective optimization for green-grey infrastructures in response to external uncertainties. <i>Science of the Total Environment</i> , 2021, 775, 145831.	3.9	33
30	A new flood risk assessment framework for evaluating the effectiveness of policies to improve urban flood resilience. <i>Urban Water Journal</i> , 2018, 15, 427-436.	1.0	31
31	A Serious Game Designed to Explore and Understand the Complexities of Flood Mitigation Options in Urban-Rural Catchments. <i>Water (Switzerland)</i> , 2018, 10, 1885.	1.2	28
32	Recommendations for Improving Integration in National End-to-End Flood Forecasting Systems: An Overview of the FFIR (Flooding From Intense Rainfall) Programme. <i>Water (Switzerland)</i> , 2019, 11, 725.	1.2	24
33	Establishing the Database of Inundation Potential in Taiwan. <i>Natural Hazards</i> , 2006, 37, 107-132.	1.6	23
34	Investigating the Effects of Pluvial Flooding and Climate Change on Traffic Flows in Barcelona and Bristol. <i>Sustainability</i> , 2020, 12, 2330.	1.6	23
35	Rapid assessment of surface-water flood-management options in urban catchments. <i>Urban Water Journal</i> , 2018, 15, 210-217.	1.0	22
36	Building knowledge of university campus population dynamics to enhance near-to-source sewage surveillance for SARS-CoV-2 detection. <i>Science of the Total Environment</i> , 2022, 806, 150406.	3.9	22

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37	Modelling seawater intrusion in the Pingtung coastal aquifer in Taiwan, under the influence of sea-level rise and changing abstraction regime. <i>Hydrogeology Journal</i> , 2020, 28, 2085-2103.	0.9	19
38	Longitudinal stage profiles forecasting in rivers for flash floods. <i>Journal of Hydrology</i> , 2010, 388, 426-437.	2.3	18
39	Quick and accurate Cellular Automata sewer simulator. <i>Journal of Hydroinformatics</i> , 2014, 16, 1359-1374.	1.1	18
40	Experimental Assessment of Building Blockage Effects in a Simplified Urban District. <i>Procedia Engineering</i> , 2016, 154, 844-852.	1.2	18
41	Methodological Framework for Analysing Cascading Effects from Flood Events: The Case of Sukhumvit Area, Bangkok, Thailand. <i>Water (Switzerland)</i> , 2018, 10, 81.	1.2	17
42	Overland-gully-sewer (2D-1D-1D) urban inundation modeling based on cellular automata framework. <i>Journal of Hydrology</i> , 2021, 603, 127001.	2.3	16
43	A GIS-based Decision Support System for Typhoon Emergency Response in Taiwan. <i>Geotechnical and Geological Engineering</i> , 2011, 29, 7-12.	0.8	15
44	Projected changes in the near-future mean climate and extreme climate events in northeast Thailand. <i>International Journal of Climatology</i> , 2022, 42, 2470-2492.	1.5	15
45	Mapping urban infrastructure interdependencies and fuzzy risks. <i>Procedia Engineering</i> , 2018, 212, 816-823.	1.2	13
46	Back to the future: assessing the damage of 2004 Dhaka flood in the 2050 urban environment. <i>Journal of Flood Risk Management</i> , 2018, 11, .	1.6	13
47	Flood Impacts on Road Transportation Using Microscopic Traffic Modelling Techniques. <i>Lecture Notes in Mobility</i> , 2019, , 115-126.	0.2	13
48	Implications of rising flood-risk for employment location: a GMM spatial model with agglomeration and endogenous house price effects. <i>Journal of Property Research</i> , 2013, 30, 298-323.	1.7	11
49	3D visualisation tool for improving the resilience to urban and coastal flooding in Torbay, UK. <i>Procedia Engineering</i> , 2018, 212, 809-815.	1.2	10
50	Mapping storm spatial profiles for flood impact assessments. <i>Advances in Water Resources</i> , 2022, 166, 104258.	1.7	9
51	Interlinking Bristol Based Models to Build Resilience to Climate Change. <i>Sustainability</i> , 2020, 12, 3233.	1.6	8
52	Targeting property flood resilience in flood risk management. <i>Journal of Flood Risk Management</i> , 2021, 14, e12723.	1.6	7
53	Simulating the Storage and the Blockage Effects of Buildings in Urban Flood Modeling. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2014, 25, 591.	0.3	6
54	Human Agency in Disaster Planning: A Systems Approach. <i>Risk Analysis</i> , 2018, 38, 1422-1443.	1.5	6

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55	Case study of the cascading effects on critical infrastructure in Torbay coastal/pluvial flooding with climate change and 3D visualisation. <i>Journal of Hydroinformatics</i> , 2020, 22, 77-92.	1.1	6
56	Coupled three-dimensional modelling of groundwater-surface water interactions for management of seawater intrusion in Pingtung Plain, Taiwan. <i>Journal of Hydrology: Regional Studies</i> , 2021, 36, 100850.	1.0	6
57	Stochastic rainfall modelling for the assessment of urban flood hazard in a changing climate. , 0, , .		6
58	Using public participation within land use change scenarios for analysing environmental and socioeconomic drivers. <i>Environmental Research Letters</i> , 2022, 17, 025002.	2.2	5
59	Analysis of the Sanchung inundation during Typhoon Aere, 2004. <i>Natural Hazards</i> , 2011, 56, 59-79.	1.6	4
60	A novel approach to flood risk assessment: the Exposure-Vulnerability matrices. <i>E3S Web of Conferences</i> , 2016, 7, 08007.	0.2	3
61	Flood damage assessment for Dhaka City, Bangladesh. , 2012, , .		3
62	Flood vulnerability and risk maps in Taipei City, Taiwan. , 2012, , .		2
63	Urban Runoff Control and Sponge City Construction. <i>Water (Switzerland)</i> , 2022, 14, 1910.	1.2	2
64	A Serious Game to Explore Different Flooding Scenarios and their Respective Effects on Infrastructures. , 0, , .		1
65	Analysing the Cascading Effects on Critical Infrastructure in Torbay Coastal/Pluvial Flooding with Climate Change. , 0, , .		0
66	Using a Particle Based Simulation to Visualize Sub-Catchments Contribution to Localized Flooding. , 0, , .		0