Assela Pathirana

List of Publications by Year
in descending order

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61 papers	2,029 citations	331670 21 h-index	254184 43 g-index
61 all docs	61 docs citations	61 times ranked	2511 citing authors

#	Article	IF	Citations
1	Urbanization and climate change impacts on future urban flooding in Can Tho city, Vietnam. Hydrology and Earth System Sciences, 2013, 17, 379-394.	4.9	400
2	Impacts of climate change on rainfall extremes and urban drainage systems: a review. Water Science and Technology, 2013, 68, 16-28.	2.5	229
3	Managing urban water supplies in developing countries â€“ Climate change and water scarcity scenarios. Physics and Chemistry of the Earth, 2008, 33, 330-339.	2.9	187
4	Climate change uncertainty: building flexibility into water and flood risk infrastructure. Climatic Change, 2013, 116, 411-423.	3.6	169
5	Impact of urban growth-driven landuse change on microclimate and extreme precipitation â€” A sensitivity study. Atmospheric Research, 2014, 138, 59-72.	4.1	132
6	Transitioning to Sponge Cities: Challenges and Opportunities to Address Urban Water Problems in China. Water (Switzerland), 2018, 10, 1230.	2.7	93
7	Developing the evidence base for mainstreaming adaptation of stormwater systems to climate change. Water Research, 2012, 46, 6824-6835.	11.3	55
8	Multifractal modelling and simulation of rain fields exhibiting spatial heterogeneity. Hydrology and Earth System Sciences, 2002, 6, 695-708.	4.9	45
9	Estimating rainfall distributions at high temporal resolutions using a multifractal model. Hydrology and Earth System Sciences, 2003, 7, 668-679.	4.9	37
10	Incorporation and application of resilience in the context of waterâ€sensitive urban design: linking European and Australian perspectives. Wiley Interdisciplinary Reviews: Water, 2014, 1, 173-186.	6.5	37
11	Evaluation of retrofitting responses to urban flood risk in Ho Chi Minh City using the Motivation and Ability (MOTA) framework. Sustainable Cities and Society, 2019, 47, 101465.	10.4	34
12	Multi-objective optimisation of costâ€“benefit of urban flood management using a 1D2D coupled model. Water Science and Technology, 2011, 63, 1053-1059.	2.5	33
13	Flexible adaptation planning for water sensitive cities. Cities, 2018, 78, 87-95.	5.6	30
14	Coping capacities for improving adaptation pathways for flood protection in Can Tho, Vietnam. Climatic Change, 2018, 149, 29-41.	3.6	29
15	Staged cost optimization of urban storm drainage systems based on hydraulic performance in a changing environment. Hydrology and Earth System Sciences, 2009, 13, 481-489.	4.9	29
16	A simple 2-D inundation model for incorporating flood damage in urban drainage planning. Hydrology and Earth System Sciences, 2011, 15, 2747-2761.	4.9	28
17	Structuring Climate Adaptation through Multiple Perspectives: Framework and Case Study on Flood Risk Management. Water (Switzerland), 2017, 9, 129.	2.7	27
18	Adaptation to climate change in the Mekong River Basin: introduction to the special issue. Climatic Change, 2018, 149, 1-11.	3.6	26

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19	Coupled 1D-2D hydrodynamic inundation model for sewer overflow: Influence of modeling parameters. Water Science, 2015, 29, 146-155.	1.6	25
20	Enhancing the Economic Value of Large Investments in Sustainable Drainage Systems (SuDS) through Inclusion of Ecosystems Services Benefits. Water (Switzerland), 2017, 9, 841.	2.7	25
21	Effectiveness of ABC Waters Design Features for Runoff Quantity Control in Urban Singapore. Water (Switzerland), 2017, 9, 577.	2.7	22
22	The Sensitivity of Urban Heat Island to Urban Green Spaceâ€"A Model-Based Study of City of Colombo, Sri Lanka. Atmosphere, 2019, 10, 151.	2.3	22
23	Urban Surface Water Quality, Flood Water Quality and Human Health Impacts in Chinese Cities. What Do We Know?. Water (Switzerland), 2018, 10, 240.	2.7	20
24	EPANET2 Desktop Application for Pressure Driven Demand Modeling. , 2011, , .		19
25	Development of context specific sustainability criteria for selection of plant species for green urban infrastructure: The case of Singapore. Sustainable Production and Consumption, 2019, 20, 316-325.	11.0	19
26	Spatial Analysis Tool for Development of Leakage Control Zones from the Analogy of Distributed Computing. , 2009, , .		16
27	Water Quality Dynamics of Urban Water Bodies during Flooding in Can Tho City, Vietnam. Water (Switzerland), 2017, 9, 260.	2.7	16
28	On teaching styles of water educators and the impact of didactic training. Hydrology and Earth System Sciences, 2012, 16, 3677-3688.	4.9	15
29	Enhancing the calibration of an urban growth model using a memetic algorithm. Computers, Environment and Urban Systems, 2015, 50, 53-65.	7.1	15
30	A Preliminary Study on the Impact of Landscape Pattern Changes Due to Urbanization: Case Study of Jakarta, Indonesia. Land, 2021, 10, 218.	2.9	14
31	Impacts of absorbing aerosols on South Asian rainfall. Climatic Change, 2007, 85, 103-118.	3.6	13
32	Managing the flooding system's resiliency to climate change. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2010, 163, 15-23.	0.7	13
33	Simulating orographic rainfall with a limited-area, non-hydrostatic atmospheric model under idealized forcing. Atmospheric Chemistry and Physics, 2005, 5, 215-226.	4.9	11
34	Effectiveness of Runoff Control Legislation and Active, Beautiful, Clean (ABC) Waters Design Features in Singapore. Water (Switzerland), 2017, 9, 627.	2.7	11
35	Context specific adaptation grammars for climate adaptation in urban areas. Environmental Modelling and Software, 2018, 102, 73-83.	4.5	11
36	Operationalising resilience to drought: Multi-layered safety for flooding applied to droughts. Journal of Hydrology, 2014, 519, 2652-2659.	5.4	9

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37	Water Infrastructure Asset Management Is Evolving. Infrastructures, 2021, 6, 90.	2.8	9
38	Microbial Risk Assessment of Tidalâ"Induced Urban Flooding in Can Tho City (Mekong Delta, Vietnam). International Journal of Environmental Research and Public Health, 2017, 14, 1485.	2.6	8
39	Managing urban water systems with significant adaptation deficitsâ€"unified framework for secondary cities: part Iâ€"conceptual framework. Climatic Change, 2018, 149, 43-56.	3.6	8
40	Managing urban water systems with significant adaptation deficitsâ€"unified framework for secondary cities: part IIâ€"the practice. Climatic Change, 2018, 149, 57-74.	3.6	8
41	Web 2.0 collaboration tool to support student research in hydrology â€" an opinion. Hydrology and Earth System Sciences, 2012, 16, 2499-2509.	4.9	8
42	Adaptation of flood risk nfrastructure to climate resilience. Proceedings of the Institution of Civil Engineers: Civil Engineering, 2012, 165, 40-45.	0.3	7
43	Capturing the changing dynamics between governmental actions across plausible future scenarios in urban water systems. Sustainable Cities and Society, 2020, 62, 102318.	10.4	7
44	Fit-for-Purpose Infrastructure Asset Management Framework for Water Utilities Facing High Uncertainties. Infrastructures, 2018, 3, 55.	2.8	6
45	Modelling formation of disinfection by-products in water distribution: optimisation using a multi-objective evolutionary algorithm. Journal of Water Supply: Research and Technology - AQUA, 2012, 61, 176-188.	1.4	5
46	Scoping for the Operation of Agile Urban Adaptation for Secondary Cities of the Global South: Possibilities in Pune, India. Water (Switzerland), 2017, 9, 939.	2.7	5
47	An Effective Modelling Approach to Support Probabilistic Flood Forecasting in Coastal Citiesâ€"Case Study: Can Tho, Mekong Delta, Vietnam. Journal of Marine Science and Engineering, 2018, 6, 55.	2.6	5
48	Flexible adaptation planning process for urban adaptation in Melbourne, Australia. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2019, 172, 393-403.	0.7	5
49	Enteric pathogens in flood-related waters in urban areas of the Vietnamese Mekong Delta: a case study of Ninh Kieu district, Can Tho city. Urban Water Journal, 2019, 16, 634-641.	2.1	5
50	A Screening Approach for Assessing Groundwater Quality for Consumption in Small Islands: Case Study of 45 Inhabited Islands in the Maldives. Water (Switzerland), 2020, 12, 2209.	2.7	5
51	Maturity Improvements in Flood Protection Asset Management across the North Sea Region. Infrastructures, 2020, 5, 112.	2.8	5
52	IDEALIZED SIMULATION OF AIRFLOW OVER A MOUNTAIN RIDGE USING A MESOSCALE ATMOSPHERIC MODEL. Proceedings of Hydraulic Engineering, 2003, 47, 31-36.	0.0	4
53	Capacity development for the Bangladesh Delta Plan from the perspective of delta professionals: A qualitative study. Water Policy, 2022, 24, 797-813.	1.5	4
54	SCALING RAINFALL SERIES WITH A MULTIFRACTAL MODEL. Proceedings of Hydraulic Engineering, 2001, 45, 295-300.	0.0	3

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55	Equity â€“ performance trade-off in water rationing regimes with domestic storage. Water Science and Technology: Water Supply, 2022, 22, 4781-4797.	2.1	3
56	ON THE SCALING PROPERTIES OF A STOCHASTIC RAINFALL MODEL. Proceedings of Hydraulic Engineering, 2000, 44, 1-6.	0.0	1
57	Nitrogen fertilizer optimization and cultivar selection for rice grown near mountainous slopes in Orissa, India. Journal of Mountain Science, 2005, 2, 329-335.	2.0	1
58	Instant Flood Risk Modelling (Inform) Tool for Co-Design of Flood Risk Management Strategies with Stakeholders in Can Tho City, Vietnam. Water (Switzerland), 2021, 13, 3131.	2.7	1
59	IDEALIZED SIMULATION OF OROGRAPHIC RAINFALL WITH A MESOSCALE ATMOSPHERIC MODEL. Proceedings of Hydraulic Engineering, 2004, 48, 295-300.	0.0	0
60	Flexible engineering designs for urban water management in Lusaka, Zambia. Water Science and Technology, 2015, 72, 1675-1681.	2.5	0
61	Report on the 7th International Conference on Precipitation: Observation, Estimation, and Prediction of Precipitation Variability at All Scales. Suimon Mizu Shigen Gakkaishi, 2001, 14, 516-520.	0.1	0