

Assela Pathirana

List of Publications by Year in descending order

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61
papers

2,029
citations

377584

21
h-index

286692

43
g-index

61
all docs

61
docs citations

61
times ranked

2807
citing authors

#	ARTICLE	IF	CITATIONS
1	Urbanization and climate change impacts on future urban flooding in Can Tho city, Vietnam. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 379-394.	1.9	400
2	Impacts of climate change on rainfall extremes and urban drainage systems: a review. <i>Water Science and Technology</i> , 2013, 68, 16-28.	1.2	229
3	Managing urban water supplies in developing countries – Climate change and water scarcity scenarios. <i>Physics and Chemistry of the Earth</i> , 2008, 33, 330-339.	1.2	187
4	Climate change uncertainty: building flexibility into water and flood risk infrastructure. <i>Climatic Change</i> , 2013, 116, 411-423.	1.7	169
5	Impact of urban growth-driven landuse change on microclimate and extreme precipitation – A sensitivity study. <i>Atmospheric Research</i> , 2014, 138, 59-72.	1.8	132
6	Transitioning to Sponge Cities: Challenges and Opportunities to Address Urban Water Problems in China. <i>Water (Switzerland)</i> , 2018, 10, 1230.	1.2	93
7	Developing the evidence base for mainstreaming adaptation of stormwater systems to climate change. <i>Water Research</i> , 2012, 46, 6824-6835.	5.3	55
8	Multifractal modelling and simulation of rain fields exhibiting spatial heterogeneity. <i>Hydrology and Earth System Sciences</i> , 2002, 6, 695-708.	1.9	45
9	Estimating rainfall distributions at high temporal resolutions using a multifractal model. <i>Hydrology and Earth System Sciences</i> , 2003, 7, 668-679.	1.9	37
10	Incorporation and application of resilience in the context of water-sensitive urban design: linking European and Australian perspectives. <i>Wiley Interdisciplinary Reviews: Water</i> , 2014, 1, 173-186.	2.8	37
11	Evaluation of retrofitting responses to urban flood risk in Ho Chi Minh City using the Motivation and Ability (MOTA) framework. <i>Sustainable Cities and Society</i> , 2019, 47, 101465.	5.1	34
12	Multi-objective optimisation of cost-benefit of urban flood management using a 1D2D coupled model. <i>Water Science and Technology</i> , 2011, 63, 1053-1059.	1.2	33
13	Flexible adaptation planning for water sensitive cities. <i>Cities</i> , 2018, 78, 87-95.	2.7	30
14	Coping capacities for improving adaptation pathways for flood protection in Can Tho, Vietnam. <i>Climatic Change</i> , 2018, 149, 29-41.	1.7	29
15	Staged cost optimization of urban storm drainage systems based on hydraulic performance in a changing environment. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 481-489.	1.9	29
16	A simple 2-D inundation model for incorporating flood damage in urban drainage planning. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 2747-2761.	1.9	28
17	Structuring Climate Adaptation through Multiple Perspectives: Framework and Case Study on Flood Risk Management. <i>Water (Switzerland)</i> , 2017, 9, 129.	1.2	27
18	Adaptation to climate change in the Mekong River Basin: introduction to the special issue. <i>Climatic Change</i> , 2018, 149, 1-11.	1.7	26

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19	Coupled 1D-2D hydrodynamic inundation model for sewer overflow: Influence of modeling parameters. <i>Water Science</i> , 2015, 29, 146-155.	0.5	25
20	Enhancing the Economic Value of Large Investments in Sustainable Drainage Systems (SuDS) through Inclusion of Ecosystems Services Benefits. <i>Water (Switzerland)</i> , 2017, 9, 841.	1.2	25
21	Effectiveness of ABC Waters Design Features for Runoff Quantity Control in Urban Singapore. <i>Water (Switzerland)</i> , 2017, 9, 577.	1.2	22
22	The Sensitivity of Urban Heat Island to Urban Green Space—A Model-Based Study of City of Colombo, Sri Lanka. <i>Atmosphere</i> , 2019, 10, 151.	1.0	22
23	Urban Surface Water Quality, Flood Water Quality and Human Health Impacts in Chinese Cities. What Do We Know?. <i>Water (Switzerland)</i> , 2018, 10, 240.	1.2	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. <i>Sustainable Production and Consumption</i> , 2019, 20, 316-325.	5.7	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. <i>Water (Switzerland)</i> , 2017, 9, 260.	1.2	16
28	On teaching styles of water educators and the impact of didactic training. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 3677-3688.	1.9	15
29	Enhancing the calibration of an urban growth model using a memetic algorithm. <i>Computers, Environment and Urban Systems</i> , 2015, 50, 53-65.	3.3	15
30	A Preliminary Study on the Impact of Landscape Pattern Changes Due to Urbanization: Case Study of Jakarta, Indonesia. <i>Land</i> , 2021, 10, 218.	1.2	14
31	Impacts of absorbing aerosols on South Asian rainfall. <i>Climatic Change</i> , 2007, 85, 103-118.	1.7	13
32	Managing the flooding system's resiliency to climate change. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 2010, 163, 15-23.	0.4	13
33	Simulating orographic rainfall with a limited-area, non-hydrostatic atmospheric model under idealized forcing. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 215-226.	1.9	11
34	Effectiveness of Runoff Control Legislation and Active, Beautiful, Clean (ABC) Waters Design Features in Singapore. <i>Water (Switzerland)</i> , 2017, 9, 627.	1.2	11
35	Context specific adaptation grammars for climate adaptation in urban areas. <i>Environmental Modelling and Software</i> , 2018, 102, 73-83.	1.9	11
36	Operationalising resilience to drought: Multi-layered safety for flooding applied to droughts. <i>Journal of Hydrology</i> , 2014, 519, 2652-2659.	2.3	9

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37	Water Infrastructure Asset Management Is Evolving. <i>Infrastructures</i> , 2021, 6, 90.	1.4	9
38	Microbial Risk Assessment of Tidal~Induced Urban Flooding in Can Tho City (Mekong Delta, Vietnam). <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 1485.	1.2	8
39	Managing urban water systems with significant adaptation deficits~unified framework for secondary cities: part II~conceptual framework. <i>Climatic Change</i> , 2018, 149, 43-56.	1.7	8
40	Managing urban water systems with significant adaptation deficits~unified framework for secondary cities: part II~the practice. <i>Climatic Change</i> , 2018, 149, 57-74.	1.7	8
41	Web 2.0 collaboration tool to support student research in hydrology ~an opinion. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 2499-2509.	1.9	8
42	Adaptation of flood risk nrastructure to climate resilience. <i>Proceedings of the Institution of Civil Engineers: Civil Engineering</i> , 2012, 165, 40-45.	0.3	7
43	Capturing the changing dynamics between governmental actions across plausible future scenarios in urban water systems. <i>Sustainable Cities and Society</i> , 2020, 62, 102318.	5.1	7
44	Fit-for-Purpose Infrastructure Asset Management Framework for Water Utilities Facing High Uncertainties. <i>Infrastructures</i> , 2018, 3, 55.	1.4	6
45	Modelling formation of disinfection by-products in water distribution: optimisation using a multi-objective evolutionary algorithm. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2012, 61, 176-188.	0.6	5
46	Scoping for the Operation of Agile Urban Adaptation for Secondary Cities of the Global South: Possibilities in Pune, India. <i>Water (Switzerland)</i> , 2017, 9, 939.	1.2	5
47	An Effective Modelling Approach to Support Probabilistic Flood Forecasting in Coastal Cities~Case Study: Can Tho, Mekong Delta, Vietnam. <i>Journal of Marine Science and Engineering</i> , 2018, 6, 55.	1.2	5
48	Flexible adaptation planning process for urban adaptation in Melbourne, Australia. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 2019, 172, 393-403.	0.4	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. <i>Urban Water Journal</i> , 2019, 16, 634-641.	1.0	5
50	A Screening Approach for Assessing Groundwater Quality for Consumption in Small Islands: Case Study of 45 Inhabited Islands in the Maldives. <i>Water (Switzerland)</i> , 2020, 12, 2209.	1.2	5
51	Maturity Improvements in Flood Protection Asset Management across the North Sea Region. <i>Infrastructures</i> , 2020, 5, 112.	1.4	5
52	IDEALIZED SIMULATION OF AIRFLOW OVER A MOUNTAIN RIDGE USING A MESOSCALE ATMOSPHERIC MODEL. <i>Proceedings of Hydraulic Engineering</i> , 2003, 47, 31-36.	0.0	4
53	Capacity development for the Bangladesh Delta Plan from the perspective of delta professionals: A qualitative study. <i>Water Policy</i> , 2022, 24, 797-813.	0.7	4
54	SCALING RAINFALL SERIES WITH A MULTIFRACTAL MODEL. <i>Proceedings of Hydraulic Engineering</i> , 2001, 45, 295-300.	0.0	3

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55	Equity “ performance trade-off in water rationing regimes with domestic storage. <i>Water Science and Technology: Water Supply</i> , 2022, 22, 4781-4797.	1.0	3
56	ON THE SCALING PROPERTIES OF A STOCHASTIC RAINFALL MODEL. <i>Proceedings of Hydraulic Engineering</i> , 2000, 44, 1-6.	0.0	1
57	Nitrogen fertilizer optimization and cultivar selection for rice grown near mountainous slopes in Orissa, India. <i>Journal of Mountain Science</i> , 2005, 2, 329-335.	0.8	1
58	Instant Flood Risk Modelling (Inform) Tool for Co-Design of Flood Risk Management Strategies with Stakeholders in Can Tho City, Vietnam. <i>Water (Switzerland)</i> , 2021, 13, 3131.	1.2	1
59	IDEALIZED SIMULATION OF OROGRAPHIC RAINFALL WITH A MESOSCALE ATMOSPHERIC MODEL. <i>Proceedings of Hydraulic Engineering</i> , 2004, 48, 295-300.	0.0	0
60	Flexible engineering designs for urban water management in Lusaka, Zambia. <i>Water Science and Technology</i> , 2015, 72, 1675-1681.	1.2	0
61	Report on the 7th International Conference on Precipitation: Observation, Estimation, and Prediction of Precipitation Variability at All Scales. <i>Suimon Mizu Shigen Gakkaishi</i> , 2001, 14, 516-520.	0.1	0