

Matthew D Wilson

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,747
citations

623734

14
h-index

677142

22
g-index

28
all docs

28
docs citations

28
times ranked

1938
citing authors

#	ARTICLE	IF	CITATIONS
1	Simple spatially-distributed models for predicting flood inundation: A review. <i>Geomorphology</i> , 2007, 90, 208-225.	2.6	345
2	An adaptive time step solution for raster-based storage cell modelling of floodplain inundation. <i>Advances in Water Resources</i> , 2005, 28, 975-991.	3.8	194
3	Modeling large-scale inundation of Amazonian seasonally flooded wetlands. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	177
4	Reach scale floodplain inundation dynamics observed using airborne synthetic aperture radar imagery: Data analysis and modelling. <i>Journal of Hydrology</i> , 2006, 328, 306-318.	5.4	168
5	Estimation of bathymetric depth and slope from data assimilation of swath altimetry into a hydrodynamic model. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	163
6	Distributed whole city water level measurements from the Carlisle 2005 urban flood event and comparison with hydraulic model simulations. <i>Journal of Hydrology</i> , 2009, 368, 42-55.	5.4	152
7	Amazon flood wave hydraulics. <i>Journal of Hydrology</i> , 2009, 374, 92-105.	5.4	147
8	Flood hazard mapping in Jamaica using principal component analysis and logistic regression. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	112
9	Hydrodynamic versus GIS modelling for coastal flood vulnerability assessment: Which is better for guiding coastal management?. <i>Ocean and Coastal Management</i> , 2016, 120, 99-109.	4.4	99
10	Floodplain channel morphology and networks of the middle Amazon River. <i>Water Resources Research</i> , 2012, 48, .	4.2	76
11	The use of elevation data in flood inundation modelling: A comparison of ERS interferometric SAR and combined contour and differential GPS data. <i>International Journal of River Basin Management</i> , 2005, 3, 3-20.	2.7	18
12	Sustainable management of tropical small island ecosystems for the optimization of soil natural capital and ecosystem services: a case of a Caribbean soil ecosystem – Aripo savannas Trinidad. <i>Journal of Soils and Sediments</i> , 2018, 18, 1654-1667.	3.0	18
13	Uncertainty in predicted runoff due to patterns of spatially variable infiltration. <i>Water Resources Research</i> , 2007, 43, .	4.2	16
14	Sustainable coastal ecosystem management – An evolving paradigm and its application to Caribbean SIDS. <i>Ocean and Coastal Management</i> , 2018, 163, 173-184.	4.4	15
15	A Comparison of Machine Learning Approaches to Improve Free Topography Data for Flood Modelling. <i>Remote Sensing</i> , 2021, 13, 275.	4.0	14
16	Soil slaking sensitivity as influenced by soil properties in alluvial and residual humid tropical soils. <i>Journal of Soils and Sediments</i> , 2019, 19, 1937-1947.	3.0	7
17	Swath-altimetry measurements of the main stem Amazon River: measurement errors and hydraulic implications. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 1943-1959.	4.9	4
18	The influence of fluvial dynamics and North Atlantic swells on the beach habitat of leatherback turtles at Grande Riviere Trinidad. <i>Journal of Environmental Management</i> , 2016, 180, 111-122.	7.8	4

#	ARTICLE	IF	CITATIONS
19	Cusp morphodynamics in a micro-tidal exposed beach. Journal of Coastal Conservation, 2017, 21, 777-788.	1.6	4
20	From spatial data to spatial knowledge infrastructure: A proposed architecture. Transactions in GIS, 2020, 24, 1526-1558.	2.3	4
21	A standardised inventory for New Zealand's stopbank (levee) network and its application for natural hazard exposure assessments. Journal of Flood Risk Management, 0, , .	3.3	3
22	Prediction Uncertainty in Floodplain Elevation and its Effect on Flood Inundation Modelling. , 2004, , 185-202.		2
23	An assessment of the impact of 1.5 versus 2 and 2.5°C global temperature increase on flooding in Jamaica: a case study from the Hope watershed. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210141.	3.4	2
24	The influence of coastal geomorphology and human activity on plastic debris distribution on a micro-tidal recreational beach on the north coast of Trinidad. Journal of Coastal Conservation, 2022, 26, 1.	1.6	1
25	Contextualizing the relative importance of habitat connectivity for metapopulation persistence: A case study of a critically endangered fish. Aquatic Conservation: Marine and Freshwater Ecosystems, 2021, 31, 1956-1969.	2.0	0