Mohamed M Morsy

List of Publications by Year
in descending order

18 papers	572 citations	759233 12 h-index	888059 17 g-index
18 all docs	18 docs citations	18 times ranked	752 citing authors

#	Article	IF	Citations
1	Quantification of Compound Flooding over Roadway Network during Extreme Events for Planning Emergency Operations. Natural Hazards Review, 2022, 23, .	1.5	6
2	Dynamic Modeling of Inland Flooding and Storm Surge on Coastal Cities under Climate Change Scenarios: Transportation Infrastructure Impacts in Norfolk, Virginia USA as a Case Study. Geosciences (Switzerland), 2022, 12, 224.	2.2	4
3	Impact of Geospatial Data Enhancements for Regional-Scale 2D Hydrodynamic Flood Modeling: Case Study for the Coastal Plain of Virginia. Journal of Hydrologic Engineering - ASCE, 2021, 26, .	1.9	6
4	Estimating Potential Climate Change Effects on the Upper Neuse Watershed Water Balance Using the SWAT Model. Journal of the American Water Resources Association, 2020, 56, 53-67.	2.4	17
5	Training Machine Learning Surrogate Models From a Highâ€Fidelity Physicsâ€Based Model: Application for Realâ€Time Streetâ€Scale Flood Prediction in an Urban Coastal Community. Water Resources Research, 2020, 56, e2019WR027038.	4.2	58
6	A taxonomy for reproducible and replicable research in environmental modelling. Environmental Modelling and Software, 2020, 134, 104753.	4.5	19
7	Exploring real-time control of stormwater systems for mitigating flood risk due to sea level rise. Journal of Hydrology, 2020, 583, 124571.	5.4	30
8	Leveraging open source software and parallel computing for model predictive control of urban drainage systems using EPA-SWMM5. Environmental Modelling and Software, 2019, 120, 104484.	4.5	42
9	Flood risk assessment and increased resilience for coastal urban watersheds under the combined impact of storm tide and heavy rainfall. Journal of Hydrology, 2019, 579, 124159.	5.4	90
10	Forecasting Groundwater Table in a Flood Prone Coastal City with Long Short-term Memory and Recurrent Neural Networks. Water (Switzerland), 2019, 11, 1098.	2.7	87
11	Leveraging Open Source Software and Parallel Computing for Model Predictive Control Simulation of Urban Drainage Systems Using EPA-SWMM5 and Python. Green Energy and Technology, 2019, , 988-992.	0.6	3
12	A cloud-based flood warning system for forecasting impacts to transportation infrastructure systems. Environmental Modelling and Software, 2018, 107, 231-244.	4.5	37
13	Feasibility of using existing web services for on-demand data access within distributed environmental decision support systems. Journal of Hydroinformatics, 2018, 20, 263-280.	2.4	0
14	Integrating scientific cyberinfrastructures to improve reproducibility in computational hydrology: Example for HydroShare and GeoTrust. Environmental Modelling and Software, 2018, 105, 217-229.	4.5	27
15	Design of a metadata framework for environmental models with an example hydrologic application in HydroShare. Environmental Modelling and Software, 2017, 93, 13-28.	4.5	40
16	Effect of Rain Gauge Proximity on Rainfall Estimation for Problematic Urban Coastal Watersheds in Virginia Beach, Virginia. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	1.9	5
17	Distributed Stormwater Controls for Flood Mitigation within Urbanized Watersheds: Case Study of Rocky Branch Watershed in Columbia, South Carolina. Journal of Hydrologic Engineering - ASCE, 2016, 21, .	1.9	28
18	HydroShare: Sharing Diverse Environmental Data Types and Models as Social Objects with Application to the Hydrology Domain. Journal of the American Water Resources Association, 2016, 52, 873-889.	2.4	73