

# Mohamed M Morsy

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2020539/publications.pdf>

Version: 2024-02-01

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