Venkatesh M Merwade

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/247846/venkatesh-m-merwade-publications-by-year.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

28 84 2,941 53 g-index h-index citations papers 5.89 3,449 94 4.3 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
84	Evaluating the reliability of synthetic rating curves for continental scale flood mapping. <i>Journal of Hydrology</i> , 2022 , 606, 127470	6	O
83	Development of High Performance Computing Tools for Estimation of High-Resolution Surface Energy Balance Products Using sUAS Information <i>Proceedings of SPIE</i> , 2021 , 11747,	1.7	1
82	Assessing the Impact of Land Cover, Soil, and Climate on the Storage Potential of Dryland Sand Dams. <i>Frontiers in Water</i> , 2021 , 3,	2.6	2
81	Regional flood frequency analysis and uncertainties: Maximum streamflow estimates in ungauged basins in the region of Lavras, MG, Brazil. <i>Catena</i> , 2021 , 197, 104970	5.8	4
80	An Alternative Approach for Improving Prediction of Integrated Hydrologic-Hydraulic Models by Assessing the Impact of Intrinsic Spatial Scales. <i>Water Resources Research</i> , 2021 , 57, e2020WR027702	5.4	1
79	Investigating the environmental response to water harvesting structures: a field study in Tanzania. <i>Hydrology and Earth System Sciences</i> , 2020 , 24, 1891-1906	5.5	8
78	Combining clustering and classification for the regionalization of environmental model parameters: Application to floodplain mapping in data-scarce regions. <i>Environmental Modelling and Software</i> , 2020 , 125, 104613	5.2	9
77	A Computationally Efficient and Physically Based Approach for Urban Flood Modeling Using a Flexible Spatiotemporal Structure. <i>Water Resources Research</i> , 2020 , 56, e2019WR025769	5.4	14
76	Towards a large-scale locally relevant flood inundation modeling framework using SWAT and LISFLOOD-FP. <i>Journal of Hydrology</i> , 2020 , 581, 124406	6	29
75	Flood inundation modeling and mapping by integrating surface and subsurface hydrology with river hydrodynamics. <i>Journal of Hydrology</i> , 2019 , 575, 1155-1177	6	16
74	Assessing the effect of different bathymetric models on hydraulic simulation of rivers in data sparse regions. <i>Journal of Hydrology</i> , 2019 , 575, 838-851	6	23
73	Separation and prioritization of uncertainty sources in a raster based flood inundation model using hierarchical Bayesian model averaging. <i>Journal of Hydrology</i> , 2019 , 578, 124100	6	10
72	Probabilistic floodplain mapping using HAND-based statistical approach. <i>Geomorphology</i> , 2019 , 324, 48-61	4.3	11
71	MyGeoHubA sustainable and evolving geospatial science gateway. Future Generation Computer Systems, 2019 , 94, 820-832	7.5	6
70	Investigating the role of model structure and surface roughness in generating flood inundation extents using one- and two-dimensional hydraulic models. <i>Journal of Flood Risk Management</i> , 2019 , 12, e12347	3.1	67
69	A geomorphic approach to 100-year floodplain mapping for the Conterminous United States. <i>Journal of Hydrology</i> , 2018 , 561, 43-58	6	12
68	Spatiotemporal Evaluation of Simulated Evapotranspiration and Streamflow over Texas Using the WRF-Hydro-RAPID Modeling Framework. <i>Journal of the American Water Resources Association</i> , 2018 , 54, 40-54	2.1	36

(2017-2018)

67	Large scale spatially explicit modeling of blue and green water dynamics in a temperate mid-latitude basin. <i>Journal of Hydrology</i> , 2018 , 562, 84-102	6	21
66	Accounting for model structure, parameter and input forcing uncertainty in flood inundation modeling using Bayesian model averaging. <i>Journal of Hydrology</i> , 2018 , 565, 138-149	6	45
65	Rationale and Efficacy of Assimilating Remotely Sensed Potential Evapotranspiration for Reduced Uncertainty of Hydrologic Models. <i>Water Resources Research</i> , 2018 , 54, 4615-4637	5.4	28
64	An Integrated Approach for Flood Inundation Modeling on Large Scales. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2018 , 133-155		4
63	Water and Sediment Microbial Quality of Mountain and Agricultural Streams. <i>Journal of Environmental Quality</i> , 2018 , 47, 985-996	3.4	9
62	A spatially distributed Clark unit hydrograph based hybrid hydrologic model (Distributed-Clark). <i>Hydrological Sciences Journal</i> , 2018 , 63, 1519-1539	3.5	3
61	Comparison of performance of tile drainage routines in SWAT 2009 and 2012 in an extensively tile-drained watershed in the Midwest. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 89-110	5.5	29
60	Incorporating institutions and collective action into a sociohydrological model of flood resilience. <i>Water Resources Research</i> , 2017 , 53, 1336-1353	5.4	59
59	A DEM-based approach for large-scale floodplain mapping in ungauged watersheds. <i>Journal of Hydrology</i> , 2017 , 550, 650-662	6	63
58	Featured Series Introduction: SWAT Applications for Emerging Hydrologic and Water Quality Challenges. <i>Journal of the American Water Resources Association</i> , 2017 , 53, 67-68	2.1	3
57	Deterministic Approach to Identify Ordinary High Water Marks Using Hydrologic and Hydraulic Attributes. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2017 , 143, 04016084	1.1	2
56	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	5.2	32
55	Probabilistic Flood Inundation Forecasting Using Rating Curve Libraries. <i>Journal of the American Water Resources Association</i> , 2017 , 53, 300-315	2.1	9
54	The Integrated Impact of Basin Characteristics on Changes in Hydrological Variables 2017 , 317-336		1
53	Integrated Modeling of Surface-Subsurface Processes to Understand River-Floodplain Hydrodynamics in the Upper Wabash River Basin 2017 ,		2
52	Hydrologic response to future land use change in the Upper Mississippi River Basin by the end of 21st century. <i>Hydrological Processes</i> , 2017 , 31, 3645-3661	3.3	29
51	Characterizing the Extent of Spatially Integrated Floodplain and Wetland Systems in the White River, Indiana, USA. <i>Journal of the American Water Resources Association</i> , 2017 , 53, 774-790	2.1	4
50	Featured Series Conclusion: SWAT Applications for Emerging Hydrologic and Water Quality Challenges. <i>Journal of the American Water Resources Association</i> , 2017 , 53, 1390-1392	2.1	1

49	The effect of land cover change on duration and severity of high and low flows. <i>Hydrological Processes</i> , 2017 , 31, 133-149	3.3	24
48	Flexibility on storage-release based distributed hydrologic modeling with object-oriented approach. <i>Journal of Hydrology</i> , 2016 , 540, 17-25	6	
47	SWATShare IA web platform for collaborative research and education through online sharing, simulation and visualization of SWAT models. <i>Environmental Modelling and Software</i> , 2016 , 75, 498-512	5.2	41
46	Role of Watershed Geomorphic Characteristics on Flooding in Indiana, United States. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016 , 21, 05015021	1.8	8
45	Enhancing the T-shaped learning profile when teaching hydrology using data, modeling, and visualization activities. <i>Hydrology and Earth System Sciences</i> , 2016 , 20, 1289-1299	5.5	11
44	Closure to R ole of Watershed Geomorphic Characteristics on Flooding in Indiana, United States by Kuk-Hyun Ahn and Venkatesh Merwade. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016 , 21, 0701601	2 ^{1.8}	
43	Multi-objective calibration of a hydrologic model using spatially distributed remotely sensed/in-situ soil moisture. <i>Journal of Hydrology</i> , 2016 , 536, 192-207	6	108
42	Quantifying relative uncertainties in the detection and attribution of human-induced climate change on winter streamflow. <i>Journal of Hydrology</i> , 2016 , 542, 304-316	6	9
41	Incorporating the effect of DEM resolution and accuracy for improved flood inundation mapping. Journal of Hydrology, 2015 , 530, 180-194	6	99
40	A web tool for STORET/WQX water quality data retrieval and Best Management Practice scenario suggestion. <i>Journal of Environmental Management</i> , 2015 , 150, 21-27	7.9	3
39	Estimation of uncertainty propagation in flood inundation mapping using a 1-D hydraulic model. <i>Hydrological Processes</i> , 2015 , 29, 624-640	3.3	27
38	A Faster and Economical Approach to Floodplain Mapping Using Soil Information. <i>Journal of the American Water Resources Association</i> , 2015 , 51, 1286-1304	2.1	23
37	Improving soil moisture accounting and streamflow prediction in SWAT by incorporating a modified time-dependent Curve Number method. <i>Hydrological Processes</i> , 2015 , 30, n/a-n/a	3.3	4
36	A GIS-based relational data model for multi-dimensional representation of river hydrodynamics and morphodynamics. <i>Environmental Modelling and Software</i> , 2015 , 65, 79-93	5.2	5
35	Prioritizing levee repairs: a case study for the city of Indianapolis, Indiana. <i>Natural Hazards</i> , 2014 , 72, 997-1019	3	3
34	Quantifying the relative impact of climate and human activities on streamflow. <i>Journal of Hydrology</i> , 2014 , 515, 257-266	6	134
33	Drought adaptation policy development and assessment in East Africa using hydrologic and system dynamics modeling. <i>Natural Hazards</i> , 2014 , 74, 789-813	3	22
32	Sensitivity of Subjective Decisions in the GLUE Methodology for Quantifying the Uncertainty in the Flood Inundation Map for Seymour Reach in Indiana, USA. <i>Water (Switzerland)</i> , 2014 , 6, 2104-2126	3	5

31	The effect of spatially uniform and non-uniform precipitation bias correction methods on improving NEXRAD rainfall accuracy for distributed hydrologic modeling 2014 , 45, 23-42		11
30	Characterizing long-term land use/cover change in the United States from 1850 to 2000 using a nonlinear bi-analytical model. <i>Ambio</i> , 2013 , 42, 285-97	6.5	17
29	Evaluation of Temperature and Precipitation Trends and Long-Term Persistence in CMIP5 Twentieth-Century Climate Simulations. <i>Journal of Climate</i> , 2013 , 26, 4168-4185	4.4	126
28	Land use/cover change impacts in CMIP5 climate simulations: A new methodology and 21st century challenges. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 6337-6353	4.4	57
27	Estimation of annual baseflow at ungauged sites in Indiana USA. <i>Journal of Hydrology</i> , 2013 , 476, 13-27	6	55
26	An Approach Using a 1D Hydraulic Model, Landsat Imaging and Generalized Likelihood Uncertainty Estimation for an Approximation of Flood Discharge. <i>Water (Switzerland)</i> , 2013 , 5, 1598-1621	3	10
25	Implementation of surface soil moisture data assimilation with watershed scale distributed hydrological model. <i>Journal of Hydrology</i> , 2012 , 416-417, 98-117	6	8o
24	Application of observation operators for field scale soil moisture averages and variances in agricultural landscapes. <i>Journal of Hydrology</i> , 2012 , 444-445, 34-50	6	20
23	Application of data assimilation with the Root Zone Water Quality Model for soil moisture profile estimation in the upper Cedar Creek, Indiana. <i>Hydrological Processes</i> , 2012 , 26, 1707-1719	3.3	17
22	WaterHUB 2012 ,		2
21	Multi-scale temporal stability analysis of surface and subsurface soil moisture within the Upper Cedar Creek Watershed, Indiana. <i>Catena</i> , 2012 , 95, 91-103	5.8	52
20	Modern Digital Instruments and Techniques for Hydrodynamic and Morphologic Characterization of River Channels 2012 , 315-341		6
	of River Chambers 2012, 515-541		
19	Moving university hydrology education forward with community-based geoinformatics, data and modeling resources. <i>Hydrology and Earth System Sciences</i> , 2012 , 16, 2393-2404	5.5	20
19 18	Moving university hydrology education forward with community-based geoinformatics, data and	5.5	20
	Moving university hydrology education forward with community-based geoinformatics, data and modeling resources. <i>Hydrology and Earth System Sciences</i> , 2012 , 16, 2393-2404 Uncertainty Quantification in Flood Inundation Mapping Using Generalized Likelihood Uncertainty		
18	Moving university hydrology education forward with community-based geoinformatics, data and modeling resources. <i>Hydrology and Earth System Sciences</i> , 2012 , 16, 2393-2404 Uncertainty Quantification in Flood Inundation Mapping Using Generalized Likelihood Uncertainty Estimate and Sensitivity Analysis. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012 , 17, 507-520 Evaluation of NARR and CLM3.5 outputs for surface water and energy budgets in the Mississippi		68
18	Moving university hydrology education forward with community-based geoinformatics, data and modeling resources. <i>Hydrology and Earth System Sciences</i> , 2012 , 16, 2393-2404 Uncertainty Quantification in Flood Inundation Mapping Using Generalized Likelihood Uncertainty Estimate and Sensitivity Analysis. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012 , 17, 507-520 Evaluation of NARR and CLM3.5 outputs for surface water and energy budgets in the Mississippi River Basin. <i>Journal of Geophysical Research</i> , 2011 , 116, Development and application of a storage elease based distributed hydrologic model using GIS.	1.8	68

13	Hydroclimatological impact of century-long drainage in midwestern United States: CCSM sensitivity experiments. <i>Journal of Geophysical Research</i> , 2010 , 115,		9
12	Parsimonious modeling of hydrologic responses in engineered watersheds: Structural heterogeneity versus functional homogeneity. <i>Water Resources Research</i> , 2010 , 46,	5.4	48
11	Vision of Cyberinfrastructure for End-to-End Environmental Explorations (C4E4). <i>Journal of Hydrologic Engineering - ASCE</i> , 2009 , 14, 53-64	1.8	7
10	Effect of spatial trends on interpolation of river bathymetry. <i>Journal of Hydrology</i> , 2009 , 371, 169-181	6	61
9	Streamflow trends in Indiana: Effects of long term persistence, precipitation and subsurface drains. Journal of Hydrology, 2009 , 374, 171-183	6	258
8	Effect of topographic data, geometric configuration and modeling approach on flood inundation mapping. <i>Journal of Hydrology</i> , 2009 , 377, 131-142	6	287
7	Impact of Watershed Subdivision and Soil Data Resolution on SWAT Model Calibration and Parameter Uncertainty1. <i>Journal of the American Water Resources Association</i> , 2009 , 45, 1179-1196	2.1	56
6	Uncertainty in Flood Inundation Mapping: Current Issues and Future Directions. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008 , 13, 608-620	1.8	170
5	GIS techniques for creating river terrain models for hydrodynamic modeling and flood inundation mapping. <i>Environmental Modelling and Software</i> , 2008 , 23, 1300-1311	5.2	184
4	An Automated GIS Procedure for Delineating River and Lake Boundaries. <i>Transactions in GIS</i> , 2007 , 11, 213-231	2.1	17
3	Anisotropic considerations while interpolating river channel bathymetry. <i>Journal of Hydrology</i> , 2006 , 331, 731-741	6	86
2	Geospatial Representation of River Channels. <i>Journal of Hydrologic Engineering - ASCE</i> , 2005 , 10, 243-25	51 1.8	48
1	Determination of Unit Hydrograph Parameters for Indiana Watersheds		2