

E James Nelson

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

880
citations

516561

16
h-index

477173

29
g-index

38
all docs

38
docs citations

38
times ranked

976
citing authors

#	ARTICLE	IF	CITATIONS
1	Introductory overview: Error metrics for hydrologic modelling “ A review of common practices and an open source library to facilitate use and adoption. Environmental Modelling and Software, 2019, 119, 32-48.	1.9	86
2	Review of Automated Floodplain Delineation from Digital Terrain Models. Journal of Water Resources Planning and Management - ASCE, 2001, 127, 394-402.	1.3	77
3	A review of open source software solutions for developing water resources web applications. Environmental Modelling and Software, 2015, 67, 108-117.	1.9	72
4	A new open source platform for lowering the barrier for environmental web app development. Environmental Modelling and Software, 2016, 85, 11-26.	1.9	66
5	IMPACT OF VARIED DATA RESOLUTION ON HYDRAULIC MODELING AND FLOODPLAIN DELINEATION. Journal of the American Water Resources Association, 2003, 39, 467-475.	1.0	47
6	A High-Resolution National-Scale Hydrologic Forecast System from a Global Ensemble Land Surface Model. Journal of the American Water Resources Association, 2016, 52, 950-964.	1.0	47
7	Demonstrating Floodplain Uncertainty Using Flood Probability Maps. Journal of the American Water Resources Association, 2007, 43, 359-371.	1.0	40
8	Groundwater Level Mapping Tool: An open source web application for assessing groundwater sustainability. Environmental Modelling and Software, 2020, 131, 104782.	1.9	38
9	Algorithm for Precise Drainage-Basin Delineation. Journal of Hydraulic Engineering, 1994, 120, 298-312.	0.7	37
10	Comparison of Lumped and Quasi-Distributed Clark Runoff Models Using the SCS Curve Number Equation. Journal of Hydrologic Engineering - ASCE, 2009, 14, 1098-1106.	0.8	34
11	Comparing the capability of distributed and lumped hydrologic models for analyzing the effects of land use change. Journal of Hydroinformatics, 2011, 13, 461-473.	1.1	34
12	Web-based decision support system tools: The Soil and Water Assessment Tool Online visualization and analyses (SWATOnline) and NASA earth observation data downloading and reformatting tool (NASAaccess). Environmental Modelling and Software, 2019, 120, 104499.	1.9	29
13	Hydrostats: A Python Package for Characterizing Errors between Observed and Predicted Time Series. Hydrology, 2018, 5, 66.	1.3	28
14	Improved Process for Floodplain Delineation from Digital Terrain Models. Journal of Water Resources Planning and Management - ASCE, 2003, 129, 427-436.	1.3	26
15	Hydrologic Modeling as a Service (HMaaS): A New Approach to Address Hydroinformatic Challenges in Developing Countries. Frontiers in Environmental Science, 2019, 7, .	1.5	24
16	A systems approach to routing global gridded runoff through local high-resolution stream networks for flood early warning systems. Environmental Modelling and Software, 2019, 120, 104501.	1.9	23
17	Simplifying the deployment of OGC web processing services (WPS) for environmental modelling “ Introducing Tethys WPS Server. Environmental Modelling and Software, 2019, 115, 38-50.	1.9	18
18	Cyberinfrastructure and Web Apps for Managing and Disseminating the National Water Model. Journal of the American Water Resources Association, 2018, 54, 859-871.	1.0	16

#	ARTICLE	IF	CITATIONS
19	A Streamflow Bias Correction and Performance Evaluation Web Application for GEOGloWS ECMWF Streamflow Services. <i>Hydrology</i> , 2021, 8, 71.	1.3	16
20	Adaptive Tessellation Method for Creating TINS from GIS Data. <i>Journal of Hydrologic Engineering - ASCE</i> , 1999, 4, 2-9.	0.8	15
21	Evaluation of Available Global Runoff Datasets Through a River Model in Support of Transboundary Water Management in South and Southeast Asia. <i>Frontiers in Environmental Science</i> , 2019, 7, .	1.5	15
22	Exploiting Earth Observation Data to Impute Groundwater Level Measurements with an Extreme Learning Machine. <i>Remote Sensing</i> , 2020, 12, 2044.	1.8	15
23	Probabilistic Flood Inundation Forecasting Using Rating Curve Libraries. <i>Journal of the American Water Resources Association</i> , 2017, 53, 300-315.	1.0	13
24	Enabling Stakeholder Decision-Making With Earth Observation and Modeling Data Using Tethys Platform. <i>Frontiers in Environmental Science</i> , 2019, 7, .	1.5	13
25	From Global to Local: Providing Actionable Flood Forecast Information in a Cloud-Based Computing Environment. <i>Journal of the American Water Resources Association</i> , 2016, 52, 965-978.	1.0	9
26	Tethys App Store: Simplifying deployment of web applications for the international GEOGloWS initiative. <i>Environmental Modelling and Software</i> , 2021, 146, 105227.	1.9	9
27	A container-based approach for sharing environmental models as web services. <i>International Journal of Digital Earth</i> , 0, , 1-20.	1.6	8
28	Tools and Algorithms to Link Horizontal Hydrologic and Vertical Hydrodynamic Models and Provide a Stochastic Modeling Framework. <i>Journal of Advances in Modeling Earth Systems</i> , 2010, 2, .	1.3	5
29	SABER: A Model-Agnostic Postprocessor for Bias Correcting Discharge from Large Hydrologic Models. <i>Hydrology</i> , 2022, 9, 113.	1.3	5
30	Chino well fire: a hydrologic evaluation of rainfall and runoff from the Mud Canyon watershed. <i>International Journal of Wildland Fire</i> , 1999, 9, 1.	1.0	3
31	A Central Method for GeoSpatial Data Acquisition (GSDA). , 2001, , 1.		3
32	Predicting Hydrologic Effects of Land-Use Change: Problems with the Curve Number Approach. , 2011, , .		2
33	Present Sentiment about ASCE Policy Statement 465 among Business Owners, University Professors, and State Licensing Boards. <i>Journal of Professional Issues in Engineering Education and Practice</i> , 2011, 137, 122-126.	0.9	2
34	Sensitivity of water quality indicators in a large tropical reservoir to selected climate and land-use changes. <i>Lakes and Reservoirs: Research and Management</i> , 2014, 19, 293-305.	0.6	2
35	Simple Method for Using Precomputed Hydrologic Models in Flood Forecasting with Uniform Rainfall and Soil Moisture Pattern. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015, 20, .	0.8	2
36	A Comprehensive Python Toolkit for Accessing High-Throughput Computing to Support Large Hydrologic Modeling Tasks. <i>Journal of the American Water Resources Association</i> , 2017, 53, 333-343.	1.0	1

#	ARTICLE	IF	CITATIONS
37	Efficient Generation of Annual Exceedance Probability Maps. , 2005, , 1.		0
38	A framework for implementing spatial and temporal uncertainty in integrated water resources modelling. Lakes and Reservoirs: Research and Management, 2011, 16, 77-86.	0.6	0