E James Nelson

List of Publications by Year
in descending order

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	SABER: A Model-Agnostic Postprocessor for Bias Correcting Discharge from Large Hydrologic Models. Hydrology, 2022, 9, 113.	1.3	5
2	A Streamflow Bias Correction and Performance Evaluation Web Application for GEOGloWS ECMWF Streamflow Services. Hydrology, 2021, 8, 71.	1.3	16
3	Tethys App Store: Simplifying deployment of web applications for the international GEOGloWS initiative. Environmental Modelling and Software, 2021, 146, 105227.	1.9	9
4	Groundwater Level Mapping Tool: An open source web application for assessing groundwater sustainability. Environmental Modelling and Software, 2020, 131, 104782.	1.9	38
5	Exploiting Earth Observation Data to Impute Groundwater Level Measurements with an Extreme Learning Machine. Remote Sensing, 2020, 12, 2044.	1.8	15
6	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
7	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
8	Evaluation of Available Global Runoff Datasets Through a River Model in Support of Transboundary Water Management in South and Southeast Asia. Frontiers in Environmental Science, 2019, 7, .	1.5	15
9	Simplifying the deployment of OGC web processing services (WPS) for environmental modelling â€“ Introducing Tethys WPS Server. Environmental Modelling and Software, 2019, 115, 38-50.	1.9	18
10	Introductory overview: Error metrics for hydrologic modelling â€“ 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
11	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
12	Enabling Stakeholder Decision-Making With Earth Observation and Modeling Data Using Tethys Platform. Frontiers in Environmental Science, 2019, 7, .	1.5	13
13	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
14	Hydrostats: A Python Package for Characterizing Errors between Observed and Predicted Time Series. Hydrology, 2018, 5, 66.	1.3	28
15	A Comprehensive Python Toolkit for Accessing Highâ€Throughput Computing to Support Large Hydrologic Modeling Tasks. Journal of the American Water Resources Association, 2017, 53, 333-343.	1.0	1
16	Probabilistic Flood Inundation Forecasting Using Rating Curve Libraries. Journal of the American Water Resources Association, 2017, 53, 300-315.	1.0	13
17	A Highâ€Resolution Nationalâ€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
18	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

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19	From Global to Local: Providing Actionable Flood Forecast Information in a Cloud‑Based Computing Environment. Journal of the American Water Resources Association, 2016, 52, 965-978.	1.0	9
20	Simple Method for Using Precomputed Hydrologic Models in Flood Forecasting with Uniform Rainfall and Soil Moisture Pattern. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	0.8	2
21	A review of open source software solutions for developing water resources web applications. Environmental Modelling and Software, 2015, 67, 108-117.	1.9	72
22	Sensitivity of water quality indicators in a large tropical reservoir to selected climate and land-use changes. Lakes and Reservoirs: Research and Management, 2014, 19, 293-305.	0.6	2
23	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
24	Predicting Hydrologic Effects of Land-Use Change: Problems with the Curve Number Approach. , 2011, , .		2
25	Present Sentiment about ASCE Policy Statement 465 among Business Owners, University Professors, and State Licensing Boards. Journal of Professional Issues in Engineering Education and Practice, 2011, 137, 122-126.	0.9	2
26	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
27	Tools and Algorithms to Link Horizontal Hydrologic and Vertical Hydrodynamic Models and Provide a Stochastic Modeling Framework. Journal of Advances in Modeling Earth Systems, 2010, 2, .	1.3	5
28	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
29	Demonstrating Floodplain Uncertainty Using Flood Probability Maps. Journal of the American Water Resources Association, 2007, 43, 359-371.	1.0	40
30	Efficient Generation of Annual Exceedance Probability Maps. , 2005, , 1.		0
31	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
32	Improved Process for Floodplain Delineation from Digital Terrain Models. Journal of Water Resources Planning and Management - ASCE, 2003, 129, 427-436.	1.3	26
33	Review of Automated Floodplain Delineation from Digital Terrain Models. Journal of Water Resources Planning and Management - ASCE, 2001, 127, 394-402.	1.3	77
34	A Central Method for GeoSpatial Data Acquisition (GSDA). , 2001, , 1.		3
35	Chino well fire: a hydrologic evaluation of rainfall and runoff from the Mud Canyon watershed. International Journal of Wildland Fire, 1999, 9, 1.	1.0	3
36	Adaptive Tessellation Method for Creating TINS from GIS Data. Journal of Hydrologic Engineering - ASCE, 1999, 4, 2-9.	0.8	15

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37	Algorithm for Precise Drainage‐Basin Delineation. Journal of Hydraulic Engineering, 1994, 120, 298-312.	0.7	37
38	A container-based approach for sharing environmental models as web services. International Journal of Digital Earth, 0, , 1-20.	1.6	8