Daniel P Ames

List of Publications by Year
in descending order

77 papers	2,105 citations	304368 22 h-index	253896 43 g-index
78 all docs	78 docs citations	78 times ranked	2816 citing authors

#	Article	IF	Citations
1	Application of Vegetation Indices for Agricultural Crop Yield Prediction Using Neural Network Techniques. Remote Sensing, 2010, 2, 673-696.	1.8	259
2	HydroDesktop: Web services-based software for hydrologic data discovery, download, visualization, and analysis. Environmental Modelling and Software, 2012, 37, 146-156.	1.9	142
3	Using GIS analytics and social preference data to evaluate utility-scale solar power site suitability. Renewable Energy, 2015, 81, 825-836.	4.3	120
4	Position paper: Open web-distributed integrated geographic modelling and simulation to enable broader participation and applications. Earth-Science Reviews, 2020, 207, 103223.	4.0	87
5	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
6	Advances in the Mapping of Flow Networks from Digital Elevation Data. , 2001, , 1.		76
7	What is the effect of LiDAR-derived DEM resolution on large-scale watershed model results?. Environmental Modelling and Software, 2014, 58, 48-57.	1.9	76
8	Effective modeling for Integrated Water Resource Management: A guide to contextual practices by phases and steps and future opportunities. Environmental Modelling and Software, 2019, 116, 40-56.	1.9	76
9	A review of open source software solutions for developing water resources web applications. Environmental Modelling and Software, 2015, 67, 108-117.	1.9	72
10	Using Bayesian networks to model watershed management decisions: an East Canyon Creek case study. Journal of Hydroinformatics, 2005, 7, 267-282.	1.1	68
11	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
12	Technical assessment and evaluation of environmental models and software: Letter to the Editor. Environmental Modelling and Software, 2011, 26, 328-336.	1.9	64
13	A framework for characterising and evaluating the effectiveness of environmental modelling. Environmental Modelling and Software, 2019, 118, 83-98.	1.9	54
14	Watershed model parameter estimation and uncertainty in data-limited environments. Environmental Modelling and Software, 2014, 51, 84-93.	1.9	48
15	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
16	Evaluation and Implementation of the OGC Web Processing Service for Use in Client-Side GIS. GeoInformatica, 2009, 13, 109-120.	2.0	46
17	Design and development of a service-oriented wrapper system for sharing and reusing distributed geoanalysis models on the web. Environmental Modelling and Software, 2019, 111, 498-509.	1.9	44
18	Evaluation of a Method for Estimating Irrigated Crop-Evapotranspiration Coefficients from Remotely Sensed Data in Idaho. Journal of Irrigation and Drainage Engineering - ASCE, 2008, 134, 722-729.	0.6	38

#	Article	IF	Citations
19	Groundwater Level Mapping Tool: An open source web application for assessing groundwater sustainability. Environmental Modelling and Software, 2020, 131, 104782.	1.9	38
20	Large-scale analytical water quality model coupled with GIS for simulation of point sourced pollutant discharges. Environmental Modelling and Software, 2015, 64, 58-71.	1.9	36
21	Estimation of stream channel geometry in Idaho using GIS-derived watershed characteristics. Environmental Modelling and Software, 2009, 24, 444-448.	1.9	35
22	Estimating 7Q10 Confidence Limits from Data: A Bootstrap Approach. Journal of Water Resources Planning and Management - ASCE, 2006, 132, 204-208.	1.3	32
23	Hydrostats: A Python Package for Characterizing Errors between Observed and Predicted Time Series. Hydrology, 2018, 5, 66.	1.3	28
24	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
25	HydroServer Lite as an open source solution for archiving and sharing environmental data for independent university labs. Ecological Informatics, 2013, 18, 171-177.	2.3	23
26	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
27	WaterML R package for managing ecological experiment data on a CUAHSI HydroServer. Ecological Informatics, 2015, 28, 19-28.	2.3	22
28	Hydrologic impacts of climate and land-use change on Namnam Stream in Koycegiz Watershed, Turkey. International Journal of Environmental Science and Technology, 2015, 12, 1481-1494.	1.8	19
29	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
30	Chapter Ten Free and Open Source Geospatial Tools for Environmental Modelling and Management. Developments in Integrated Environmental Assessment, 2008, 3, 163-180.	0.0	17
31	A recipe for standards-based data sharing using open source software and low-cost electronics. Journal of Hydroinformatics, 2016, 18, 185-197.	1.1	16
32	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
33	A Streamflow Bias Correction and Performance Evaluation Web Application for GEOGloWS ECMWF Streamflow Services. Hydrology, 2021, 8, 71.	1.3	16
34	Using crowdsourced and weather station data to fill cloud gaps in MODIS snow cover datasets. Environmental Modelling and Software, 2017, 95, 258-270.	1.9	15
35	Exploiting Earth Observation Data to Impute Groundwater Level Measurements with an Extreme Learning Machine. Remote Sensing, 2020, 12, 2044.	1.8	15
36	An Open–Source Web Application for Regional Analysis of GRACE Groundwater Data and Engaging Stakeholders in Groundwater Management. Journal of the American Water Resources Association, 2022, 58, 1002-1016.	1.0	14

#	Article	IF	Citations
37	Enabling Stakeholder Decision-Making With Earth Observation and Modeling Data Using Tethys Platform. Frontiers in Environmental Science, 2019, 7, .	1.5	13
38	Comparison between sprinkler irrigation and natural rainfall based on droplet diameter. Spanish Journal of Agricultural Research, 2016, 14, e1201.	0.3	13
39	Developing Total Maximum Daily Loads Under Uncertainty: Decision Analysis and the Margin of Safety. Journal of Contemporary Water Research and Education, 2008, 140, 37-52.	0.7	12
40	Quantitative Methods for Comparing Different Polyline Stream Network Models. Journal of Geographic Information System, 2014, 06, 88-98.	0.3	12
41	Comprehensive and Quality-Controlled Bedload Transport Database. Journal of Hydraulic Engineering, 2017, 143, .	0.7	11
42	Using the Newly-created ILE DBMS to Better Represent Temporal and Historical GIS Data. Transactions in GIS, 2010, 14, 39-58.	1.0	10
43	Software framework for inverse modeling and uncertainty characterization. Environmental Modelling and Software, 2015, 66, 98-109.	1.9	10
44	Interoperability engine design for model sharing and reuse among OpenMI, BMI and OpenGMS-IS model standards. Environmental Modelling and Software, 2021, 144, 105164.	1.9	10
45	Economic Analysis Approach for Identifying Optimal Microirrigation Uniformity. Journal of Irrigation and Drainage Engineering - ASCE, 2015, 141, 04015002.	0.6	9
46	Political efficacy and familiarity as predictors of attitudes towards electric transmission lines in the United States. Energy Research and Social Science, 2016, 17, 127-134.	3.0	9
47	MapWindow GIS. , 2008, , 633-634.		9
48	Tethys App Store: Simplifying deployment of web applications for the international GEOGloWS initiative. Environmental Modelling and Software, 2021, 146, 105227.	1.9	9
49	A Bayesian Decision Network Engine for Internet-Based Stakeholder Decision-Making. , 2001, , 1.		8
50	Introducing a Low-Head Dam Fatality Database and Internet Information Portal. Journal of the American Water Resources Association, 2015, 51, 1453-1459.	1.0	8
51	Extending HydroShare to enable hydrologic time series data as social media. Journal of Hydroinformatics, 2016, 18, 198-209.	1.1	8
52	A container-based approach for sharing environmental models as web services. International Journal of Digital Earth, 0, , 1-20.	1.6	8
53	Considerations for Implementing OGC WMS and WFS Specifications in a Desktop GIS. Journal of Geographic Information System, 2012, 04, 161-167.	0.3	8
54	The Grids Python Tool for Querying Spatiotemporal Multidimensional Water Data. Water (Switzerland), 2021, 13, 2066.	1.2	7

#	Article	IF	Citations
55	Extracting Snow Cover Time Series Data from Open Access Web Mapping Tile Services. Journal of the American Water Resources Association, 2016, 52, 916-932.	1.0	6
56	Design and development of a web-based EPANET model catalogue and execution environment. Annals of GIS, 2021, 27, 247-260.	1.4	6
57	Water Data Explorer: An Open-Source Web Application and Python Library for Water Resources Data Discovery. Water (Switzerland), 2021, 13, 1850.	1.2	6
58	Design and Development of Web Services for Accessing Free Hydrological Data from the Czech Republic. IFIP Advances in Information and Communication Technology, 2011, , 581-588.	0.5	6
59	Web Feature Service (WFS) and Web Map Service (WMS). , 2008, , 1259-1261.		5
60	SABER: A Model-Agnostic Postprocessor for Bias Correcting Discharge from Large Hydrologic Models. Hydrology, 2022, 9, 113.	1.3	5
61	A suggestion for a data structure for temporal GIS. , 2009, , .		4
62	Introducing an Open-Source Regional Water Quality Data Viewer Tool to Support Research Data Access. Hydrology, 2021, 8, 91.	1.3	4
63	GIS-Enabled Desktop Software Development Pardigms. , 2009, , .		3
64	Web Feature Service (WFS) and Web Map Service (WMS). , 2016, , 1-3.		3
65	Mobile, Low-Cost, and Large-Scale Immersive Data Visualization Environment for Civil Engineering Applications. Journal of Computing in Civil Engineering, 2015, 29, .	2.5	2
66	Bayesian Network Integration with GIS. , 2008, , 39-45.		2
67	A New Openâ€Access HUCâ€8 Based Downscaled CMIPâ€5 Climate Model Forecast Dataset for the Conterminous United States. Journal of the American Water Resources Association, 2016, 52, 906-915.	1.0	1
68	Bayesian Network Integration withÂGIS. , 2016, , 1-8.		1
69	Open-Source Tools for Environmental Modeling. , 2011, , 597-619.		1
70	Environmental Modeling Using Open Source Tools. , 2008, , 275-279.		0
71	MapWindow GIS. , 2016, , 1-2.		0
72	Environmental Modeling Using Open Source Tools. , 2016, , 1-7.		0

#	Article	IF	Citations
73	MapWindow GIS. , 2017, , 1177-1177.		0
74	Environmental Modeling Using Open Source Tools. , 2017, , 539-545.		0
75	Web Feature Service (WFS) and Web Map Service (WMS). , 2017, , 2485-2488.		0
76	Bayesian Network Integration with GIS. , 2017, , 101-108.		0
77	Open geographic modeling. Annals of GIS, 0, , 1-3.	1.4	0