

Edward Beighley

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

2,317
citations

257101

24
h-index

214527

47
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69
all docs

69
docs citations

69
times ranked

3327
citing authors

#	ARTICLE	IF	CITATIONS
1	Hillslope Hydrology in Global Change Research and Earth System Modeling. <i>Water Resources Research</i> , 2019, 55, 1737-1772.	1.7	281
2	Effects of Land Cover on Stream Ecosystems: Roles of Empirical Models and Scaling Issues. <i>Ecosystems</i> , 2003, 6, 407-423.	1.6	174
3	Projections of climate change effects on discharge and inundation in the Amazon basin. <i>Climatic Change</i> , 2016, 136, 555-570.	1.7	147
4	Opportunities for hydrologic research in the Congo Basin. <i>Reviews of Geophysics</i> , 2016, 54, 378-409.	9.0	145
5	Assessing the potential global extent of SWOT river discharge observations. <i>Journal of Hydrology</i> , 2014, 519, 1516-1525.	2.3	142
6	Characterization of terrestrial water dynamics in the Congo Basin using GRACE and satellite radar altimetry. <i>Remote Sensing of Environment</i> , 2011, 115, 3530-3538.	4.6	128
7	Global Relationships Between River Width, Slope, Catchment Area, Meander Wavelength, Sinuosity, and Discharge. <i>Geophysical Research Letters</i> , 2019, 46, 3252-3262.	1.5	91
8	Comparing satellite derived precipitation datasets using the Hillslope River Routing (HRR) model in the Congo River Basin. <i>Hydrological Processes</i> , 2011, 25, 3216-3229.	1.1	83
9	IMPACTS OF CALIFORNIA'S CLIMATIC REGIMES AND COASTAL LAND USE CHANGE ON STREAMFLOW CHARACTERISTICS. <i>Journal of the American Water Resources Association</i> , 2003, 39, 1419-1433.	1.0	80
10	Trend Assessment in Rainfall-Runoff Behavior in Urbanizing Watersheds. <i>Journal of Hydrologic Engineering - ASCE</i> , 2002, 7, 27-34.	0.8	75
11	Hydrologic evaluation of satellite and reanalysis precipitation datasets over a mid-latitude basin. <i>Atmospheric Research</i> , 2015, 164-165, 37-48.	1.8	58
12	Mapping wetland water depths over the central Congo Basin using PALSAR ScanSAR, Envisat altimetry, and MODIS VCF data. <i>Remote Sensing of Environment</i> , 2015, 159, 70-79.	4.6	53
13	In Quest of Calibration Density and Consistency in Hydrologic Modeling: Distributed Parameter Calibration against Streamflow Characteristics. <i>Water Resources Research</i> , 2019, 55, 7784-7803.	1.7	44
14	Absolute water storages in the Congo River floodplains from integration of InSAR and satellite radar altimetry. <i>Remote Sensing of Environment</i> , 2017, 201, 57-72.	4.6	42
15	Ensemble learning regression for estimating river discharges using satellite altimetry data: Central Congo River as a Test-bed. <i>Remote Sensing of Environment</i> , 2019, 221, 741-755.	4.6	42
16	SPATIALLY EXPLICIT HYDROLOGIC MODELING OF LAND USE CHANGE. <i>Journal of the American Water Resources Association</i> , 2002, 38, 241-252.	1.0	41
17	Developing channel and floodplain dimensions with limited data: a case study in the Amazon Basin. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 1059-1071.	1.2	38
18	A LISFLOOD-FP hydraulic model of the middle reach of the Congo. <i>Journal of Hydrology</i> , 2020, 580, 124203.	2.3	37

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19	Estimating Daily Global Evapotranspiration Using Penmanâ€™s Monteith Equation and Remotely Sensed Land Surface Temperature. <i>Remote Sensing</i> , 2017, 9, 1138.	1.8	36
20	Mapping spatio-temporal water level variations over the central Congo River using PALSAR ScanSAR and Envisat altimetry data. <i>International Journal of Remote Sensing</i> , 2017, 38, 7021-7040.	1.3	34
21	Effects of Impervious Area Estimation Methods on Simulated Peak Discharges. <i>Journal of Hydrologic Engineering - ASCE</i> , 2009, 14, 388-398.	0.8	30
22	A multidisciplinary coastal vulnerability assessment for local government focused on ecosystems, Santa Barbara area, California. <i>Ocean and Coastal Management</i> , 2019, 182, 104921.	2.0	30
23	Impacts of Climate Variability and Land Use Alterations on Frequency Distributions of Terrestrial Runoff Loading to Coastal Waters in Southern California. <i>Journal of the American Water Resources Association</i> , 2008, 44, 62-74.	1.0	28
24	Temperature and Precipitation Trends in Lebanonâ€™s Largest River: The Litani Basin. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2013, 139, 86-95.	1.3	25
25	Improved error estimates of a discharge algorithm for remotely sensed river measurements: Test cases on Sacramento and Granger Rivers. <i>Water Resources Research</i> , 2016, 52, 278-294.	1.7	25
26	Seasonal flow frequency analysis. <i>Journal of Hydrology</i> , 2003, 279, 43-56.	2.3	24
27	Simulating streamflow on regulated rivers using characteristic reservoir storage patterns derived from synthetic remote sensing data. <i>Hydrological Processes</i> , 2015, 29, 2014-2026.	1.1	23
28	Local-To-Regional Landscape Drivers of Extreme Weather and Climate: Implications for Water Infrastructure Resilience. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015, 20, .	0.8	22
29	Estimating Flood Discharges in Reservoir-Regulated River Basins by Integrating Synthetic SWOT Satellite Observations and Hydrologic Modeling. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016, 21, .	0.8	21
30	Using GRACE in a streamflow recession to determine drainable water storage in the Mississippi River basin. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 3269-3277.	1.9	19
31	Identifying uncertainties in hydrologic fluxes and seasonality from hydrologic model components for climate change impact assessments. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 2253-2267.	1.9	19
32	Using GIS to Determine Extent of Gauged Streams in a Region. <i>Journal of Hydrologic Engineering - ASCE</i> , 2000, 5, 190-196.	0.8	16
33	Propagation of future climate conditions into hydrologic response from coastal southern California watersheds. <i>Climatic Change</i> , 2019, 153, 199-218.	1.7	16
34	Combining Optical Remote Sensing, McFLI Discharge Estimation, Global Hydrologic Modeling, and Data Assimilation to Improve Daily Discharge Estimates Across an Entire Large Watershed. <i>Water Resources Research</i> , 2021, 57, e2020WR027794.	1.7	16
35	A hydrologic routing model suitable for climate-scale simulations of arctic rivers: application to the Mackenzie River Basin. <i>Hydrological Processes</i> , 2015, 29, 2751-2768.	1.1	14
36	How Does the Unique Space-Time Sampling of the SWOT Mission Influence River Discharge Series Characteristics?. <i>Geophysical Research Letters</i> , 2019, 46, 8154-8161.	1.5	14

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37	Inter-annual temperature and precipitation variations over the Litani Basin in response to atmospheric circulation patterns. <i>Theoretical and Applied Climatology</i> , 2012, 108, 563-577.	1.3	13
38	Biogeographic gradients in ecosystem processes of the invasive ecosystem engineer <i>Phragmites australis</i> . <i>Biological Invasions</i> , 2016, 18, 2577-2595.	1.2	13
39	Sensor-based detection of algal blooms for public health advisories and long-term monitoring. <i>Science of the Total Environment</i> , 2021, 767, 144984.	3.9	13
40	Large-scale Performance and Design for Construction Activity Erosion Control Best Management Practices. <i>Journal of Environmental Quality</i> , 2009, 38, 1248-1254.	1.0	12
41	Modelling streamflow trends for a watershed with limited data: case of the Litani basin, Lebanon. <i>Hydrological Sciences Journal</i> , 2012, 57, 1516-1529.	1.2	11
42	Spatial and Temporal Variations in Eastern U.S. Hydrology: Responses to Global Climate Variability. <i>Journal of the American Water Resources Association</i> , 2016, 52, 1089-1108.	1.0	11
43	Integrating Lateral Inflows Into a SWOT Mission River Discharge Algorithm. <i>Water Resources Research</i> , 2020, 56, e2019WR026589.	1.7	10
44	Underlying Fundamentals of Kalman Filtering for River Network Modeling. <i>Journal of Hydrometeorology</i> , 2020, 21, 453-474.	0.7	10
45	Estimating discharges for poorly gauged river basin using ensemble learning regression with satellite altimetry data and a hydrologic model. <i>Advances in Space Research</i> , 2021, 68, 607-618.	1.2	10
46	Engaging the User Community for Advancing Societal Applications of the Surface Water Ocean Topography Mission. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, ES285-ES290.	1.7	9
47	Future climate impacts on the hydrology of headwater streams in the Amazon River Basin: Implications for migratory goliath catfishes. <i>Hydrological Processes</i> , 2020, 34, 5402-5416.	1.1	8
48	The Early Adopter Program for the Surface Water Ocean Topography Satellite Mission: Lessons Learned in Building User Engagement during the Prelaunch Era. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E259-E264.	1.7	8
49	Subsurface Response Model for Storm Events within Susquehanna River Basin. <i>Journal of Hydrologic Engineering - ASCE</i> , 2002, 7, 185-191.	0.8	7
50	Runoff Characteristics for Construction Site Erosion Control Practices. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2010, 136, 405-413.	0.6	7
51	Review of Approaches and Recommendations for Improving Resilience of Water Management Infrastructure: The Case for Large Dams. <i>Journal of Infrastructure Systems</i> , 2017, 23, .	1.0	7
52	Mapping Forested Floodplain Topography Using InSAR and Radar Altimetry. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019, 12, 5189-5198.	2.3	7
53	What Do Experienced Water Managers Think of Water Resources of Our Nation and Its Management Infrastructure?. <i>PLoS ONE</i> , 2015, 10, e0142073.	1.1	7
54	Adsorption of Phosphate by Goethite and Zeolite: Effects of Humic Substances from Green Waste Compost. <i>Compost Science and Utilization</i> , 2011, 19, 197-204.	1.2	6

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55	The Applicability of SWOT's Non-Uniform Space-Time Sampling in Hydrologic Model Calibration. Remote Sensing, 2020, 12, 3241.	1.8	6
56	Slope Interrupter Best Management Practice Experiments on a Tilting Soil Bed with Simulated Rainfall. Journal of Irrigation and Drainage Engineering - ASCE, 2009, 135, 480-486.	0.6	5
57	Predicting Model Uncertainty at River Junctions due to Drainage Network Structure. Journal of Hydrologic Engineering - ASCE, 2009, 14, 499-507.	0.8	4
58	Evaluation of Soil Erosion and Sediment Control Products for Release of Heavy Metals. Environmental Engineering Science, 2010, 27, 905-914.	0.8	4
59	Upscaling Surface Runoff Routing Processes in Large-Scale Hydrologic Models: Application to the Ohio River Basin. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	0.8	4
60	Characterizing Potential Water Quality Impacts from Soils Treated with Dust Suppressants. Journal of Environmental Quality, 2009, 38, 502-512.	1.0	3
61	Leveraging River Network Topology and Regionalization to Expand SWOT-Derived River Discharge Time Series in the Mississippi River Basin. Remote Sensing, 2021, 13, 1590.	1.8	3
62	Hack's law of debris-flow basins. International Journal of Sediment Research, 2009, 24, 74-87.	1.8	2
63	Flood Frequency Hydrology with Limited Data for the Weser River Basin, Germany. Journal of Hydrologic Engineering - ASCE, 2019, 24, 05019002.	0.8	2
64	Survey of Water Managers for Twenty-First Century Challenges. , 2020, , 21-34.		1
65	Current Approaches for Resilience Assessment. , 2020, , 35-43.		1
66	Development of a Model to Predict Runoff Water Headloss Through Compost Filter Berms. Compost Science and Utilization, 2012, 20, 207-214.	1.2	0
67	Evaluation of Best Management Practice Products in Preventing Discharge of Metals: A Laboratory Evaluation. Journal of Environmental Quality, 2012, 41, 800-806.	1.0	0
68	Resilience of Water Management Infrastructure. , 2020, , 1-20.		0