Edward Beighley

List of Publications by Year
in descending order

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68 papers	2,317 citations	257101 24 h-index	214527 47 g-index
69 all docs	69 docs citations	69 times ranked	3327 citing authors

#	Article	IF	Citations
1	Combining Optical Remote Sensing, McFLI Discharge Estimation, Global Hydrologic Modeling, and Data Assimilation to Improve Daily Discharge Estimates Across an Entire Large Watershed. Water Resources Research, 2021, 57, e2020WR027794.	1.7	16
2	Estimating discharges for poorly gauged river basin using ensemble learning regression with satellite altimetry data and a hydrologic model. Advances in Space Research, 2021, 68, 607-618.	1.2	10
3	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
4	Sensor-based detection of algal blooms for public health advisories and long-term monitoring. Science of the Total Environment, 2021, 767, 144984.	3.9	13
5	A LISFLOOD-FP hydraulic model of the middle reach of the Congo. Journal of Hydrology, 2020, 580, 124203.	2.3	37
6	Integrating Lateral Inflows Into a SWOT Mission River Discharge Algorithm. Water Resources Research, 2020, 56, e2019WR026589.	1.7	10
7	Future climate impacts on the hydrology of headwater streams in the Amazon River Basin: Implications for migratory goliath catfishes. Hydrological Processes, 2020, 34, 5402-5416.	1.1	8
8	The Applicability of SWOTâ€™s Non-Uniform Spaceâ€“Time Sampling in Hydrologic Model Calibration. Remote Sensing, 2020, 12, 3241.	1.8	6
9	Identifying uncertainties in hydrologic fluxes and seasonality from hydrologic model components for climate change impact assessments. Hydrology and Earth System Sciences, 2020, 24, 2253-2267.	1.9	19
10	Underlying Fundamentals of Kalman Filtering for River Network Modeling. Journal of Hydrometeorology, 2020, 21, 453-474.	0.7	10
11	Survey of Water Managers for Twenty-First Century Challenges. , 2020, , 21-34.		1
12	Current Approaches for Resilience Assessment. , 2020, , 35-43.		1
13	Resilience of Water Management Infrastructure. , 2020, , 1-20.		0
14	The Early Adopter Program for the Surface Water Ocean Topography Satellite Mission: Lessons Learned in Building User Engagement during the Prelaunch Era. Bulletin of the American Meteorological Society, 2020, 101, E259-E264.	1.7	8
15	How Does the Unique Spaceâ€Time Sampling of the SWOT Mission Influence River Discharge Series Characteristics?. Geophysical Research Letters, 2019, 46, 8154-8161.	1.5	14
16	Using GRACE in a streamflow recession to determine drainable water storage in the Mississippi River basin. Hydrology and Earth System Sciences, 2019, 23, 3269-3277.	1.9	19
17	In Quest of Calibration Density and Consistency in Hydrologic Modeling: Distributed Parameter Calibration against Streamflow Characteristics. Water Resources Research, 2019, 55, 7784-7803.	1.7	44
18	Global Relationships Between River Width, Slope, Catchment Area, Meander Wavelength, Sinuosity, and Discharge. Geophysical Research Letters, 2019, 46, 3252-3262.	1.5	91

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19	Propagation of future climate conditions into hydrologic response from coastal southern California watersheds. Climatic Change, 2019, 153, 199-218.	1.7	16
20	Hillslope Hydrology in Global Change Research and Earth System Modeling. Water Resources Research, 2019, 55, 1737-1772.	1.7	281
21	Mapping Forested Floodplain Topography Using InSAR and Radar Altimetry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 5189-5198.	2.3	7
22	A multidisciplinary coastal vulnerability assessment for local government focused on ecosystems, Santa Barbara area, California. Ocean and Coastal Management, 2019, 182, 104921.	2.0	30
23	Ensemble learning regression for estimating river discharges using satellite altimetry data: Central Congo River as a Test-bed. Remote Sensing of Environment, 2019, 221, 741-755.	4.6	42
24	Flood Frequency Hydrology with Limited Data for the Weser River Basin, Germany. Journal of Hydrologic Engineering - ASCE, 2019, 24, 05019002.	0.8	2
25	Review of Approaches and Recommendations for Improving Resilience of Water Management Infrastructure: The Case for Large Dams. Journal of Infrastructure Systems, 2017, 23, .	1.0	7
26	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
27	Engaging the User Community for Advancing Societal Applications of the Surface Water Ocean Topography Mission. Bulletin of the American Meteorological Society, 2017, 98, ES285-ES290.	1.7	9
28	Mapping spatio-temporal water level variations over the central Congo River using PALSAR ScanSAR and Envisat altimetry data. International Journal of Remote Sensing, 2017, 38, 7021-7040.	1.3	34
29	Absolute water storages in the Congo River floodplains from integration of InSAR and satellite radar altimetry. Remote Sensing of Environment, 2017, 201, 57-72.	4.6	42
30	Estimating Daily Global Evapotranspiration Using Penmanâ€“Monteith Equation and Remotely Sensed Land Surface Temperature. Remote Sensing, 2017, 9, 1138.	1.8	36
31	Opportunities for hydrologic research in the Congo Basin. Reviews of Geophysics, 2016, 54, 378-409.	9.0	145
32	Improved error estimates of a discharge algorithm for remotely sensed river measurements: Test cases on <scp>S</scp>acramento and <scp>G</scp>aronne <scp>R</scp>ivers. Water Resources Research, 2016, 52, 278-294.	1.7	25
33	Spatial and Temporal Variations in Eastern <scp>U.S.</scp> Hydrology: Responses to Global Climate Variability. Journal of the American Water Resources Association, 2016, 52, 1089-1108.	1.0	11
34	Biogeographic gradients in ecosystem processes of the invasive ecosystem engineer Phragmites australis. Biological Invasions, 2016, 18, 2577-2595.	1.2	13
35	Projections of climate change effects on discharge and inundation in the Amazon basin. Climatic Change, 2016, 136, 555-570.	1.7	147
36	Estimating Flood Discharges in Reservoir-Regulated River Basins by Integrating Synthetic SWOT Satellite Observations and Hydrologic Modeling. Journal of Hydrologic Engineering - ASCE, 2016, 21, .	0.8	21

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37	A hydrologic routing model suitable for climateâ€scale simulations of arctic rivers: application to the Mackenzie River Basin. Hydrological Processes, 2015, 29, 2751-2768.	1.1	14
38	Simulating streamflow on regulated rivers using characteristic reservoir storage patterns derived from synthetic remote sensing data. Hydrological Processes, 2015, 29, 2014-2026.	1.1	23
39	Mapping wetland water depths over the central Congo Basin using PALSAR ScanSAR, Envisat altimetry, and MODIS VCF data. Remote Sensing of Environment, 2015, 159, 70-79.	4.6	53
40	Hydrologic evaluation of satellite and reanalysis precipitation datasets over a mid-latitude basin. Atmospheric Research, 2015, 164-165, 37-48.	1.8	58
41	Local-To-Regional Landscape Drivers of Extreme Weather and Climate: Implications for Water Infrastructure Resilience. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	0.8	22
42	What Do Experienced Water Managers Think of Water Resources of Our Nation and Its Management Infrastructure?. PLoS ONE, 2015, 10, e0142073.	1.1	7
43	Assessing the potential global extent of SWOT river discharge observations. Journal of Hydrology, 2014, 519, 1516-1525.	2.3	142
44	Temperature and Precipitation Trends in Lebanonâ€™s Largest River: The Litani Basin. Journal of Water Resources Planning and Management - ASCE, 2013, 139, 86-95.	1.3	25
45	Modelling streamflow trends for a watershed with limited data: case of the Litani basin, Lebanon. Hydrological Sciences Journal, 2012, 57, 1516-1529.	1.2	11
46	Development of a Model to Predict Runoff Water Headloss Through Compost Filter Berms. Compost Science and Utilization, 2012, 20, 207-214.	1.2	0
47	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
48	Inter-annual temperature and precipitation variations over the Litani Basin in response to atmospheric circulation patterns. Theoretical and Applied Climatology, 2012, 108, 563-577.	1.3	13
49	Characterization of terrestrial water dynamics in the Congo Basin using GRACE and satellite radar altimetry. Remote Sensing of Environment, 2011, 115, 3530-3538.	4.6	128
50	Developing channel and floodplain dimensions with limited data: a case study in the Amazon Basin. Earth Surface Processes and Landforms, 2011, 36, 1059-1071.	1.2	38
51	Comparing satellite derived precipitation datasets using the Hillslope River Routing (HRR) model in the Congo River Basin. Hydrological Processes, 2011, 25, 3216-3229.	1.1	83
52	Adsorption of Phosphate by Goethite and Zeolite: Effects of Humic Substances from Green Waste Compost. Compost Science and Utilization, 2011, 19, 197-204.	1.2	6
53	Evaluation of Soil Erosion and Sediment Control Products for Release of Heavy Metals. Environmental Engineering Science, 2010, 27, 905-914.	0.8	4
54	Runoff Characteristics for Construction Site Erosion Control Practices. Journal of Irrigation and Drainage Engineering - ASCE, 2010, 136, 405-413.	0.6	7

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55	Largeâ€Scale Performance and Design for Construction Activity Erosion Control Best Management Practices. Journal of Environmental Quality, 2009, 38, 1248-1254.	1.0	12
56	Characterizing Potential Water Quality Impacts from Soils Treated with Dust Suppressants. Journal of Environmental Quality, 2009, 38, 502-512.	1.0	3
57	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
58	Effects of Impervious Area Estimation Methods on Simulated Peak Discharges. Journal of Hydrologic Engineering - ASCE, 2009, 14, 388-398.	0.8	30
59	Predicting Model Uncertainty at River Junctions due to Drainage Network Structure. Journal of Hydrologic Engineering - ASCE, 2009, 14, 499-507.	0.8	4
60	Hack's law of debris-flow basins. International Journal of Sediment Research, 2009, 24, 74-87.	1.8	2
61	Impacts of Climate Variability and Land Use Alterations on Frequency Distributions of Terrestrial Runoff Loading to Coastal Waters in Southern California¹. Journal of the American Water Resources Association, 2008, 44, 62-74.	1.0	28
62	IMPACTS OF CALIFORNIA'S CLIMATIC REGIMES AND COASTAL LAND USE CHANGE ON STREAMFLOW CHARACTERISTICS. Journal of the American Water Resources Association, 2003, 39, 1419-1433.	1.0	80
63	Effects of Land Cover on Stream Ecosystems: Roles of Empirical Models and Scaling Issues. Ecosystems, 2003, 6, 407-423.	1.6	174
64	Seasonal flow frequency analysis. Journal of Hydrology, 2003, 279, 43-56.	2.3	24
65	Trend Assessment in Rainfall-Runoff Behavior in Urbanizing Watersheds. Journal of Hydrologic Engineering - ASCE, 2002, 7, 27-34.	0.8	75
66	Subsurface Response Model for Storm Events within Susquehanna River Basin. Journal of Hydrologic Engineering - ASCE, 2002, 7, 185-191.	0.8	7
67	SPATIALLY EXPLICIT HYDROLOGIC MODELING OF LAND USE CHANGE. Journal of the American Water Resources Association, 2002, 38, 241-252.	1.0	41
68	Using GIS to Determine Extent of Gauged Streams in a Region. Journal of Hydrologic Engineering - ASCE, 2000, 5, 190-196.	0.8	16