

Laura C Bowling

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

3,577
citations

117625

34
h-index

138484

58
g-index

75
all docs

75
docs citations

75
times ranked

4576
citing authors

#	ARTICLE	IF	CITATIONS
1	Variable infiltration capacity cold land process model updates. <i>Global and Planetary Change</i> , 2003, 38, 151-159.	3.5	286
2	Simulation of high-latitude hydrological processes in the Torneå–Kalix basin: PILPS Phase 2(e). <i>Global and Planetary Change</i> , 2003, 38, 1-30.	3.5	194
3	Application of a GIS-based distributed hydrology model for prediction of forest harvest effects on peak stream flow in the Pacific Northwest. <i>Hydrological Processes</i> , 1998, 12, 889-904.	2.6	148
4	Reclaiming freshwater sustainability in the Cadillac Desert. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 21263-21269.	7.1	136
5	Modeling the Effects of Lakes and Wetlands on the Water Balance of Arctic Environments. <i>Journal of Hydrometeorology</i> , 2010, 11, 276-295.	1.9	124
6	The role of surface storage in a low-gradient Arctic watershed. <i>Water Resources Research</i> , 2003, 39, .	4.2	114
7	Optimal selection and placement of BMPs and LID practices with a rainfall-runoff model. <i>Environmental Modelling and Software</i> , 2016, 80, 281-296.	4.5	113
8	Methane emissions from western Siberian wetlands: heterogeneity and sensitivity to climate change. <i>Environmental Research Letters</i> , 2007, 2, 045015.	5.2	110
9	Simulation of high latitude hydrological processes in the Torneå–Kalix basin: PILPS Phase 2(e). <i>Global and Planetary Change</i> , 2003, 38, 31-53.	3.5	106
10	Parameterization of Blowing-Snow Sublimation in a Macroscale Hydrology Model. <i>Journal of Hydrometeorology</i> , 2004, 5, 745-762.	1.9	105
11	Hydrologic effects of logging in western Washington, United States. <i>Water Resources Research</i> , 2000, 36, 3223-3240.	4.2	102
12	A regional scale assessment of land use/land cover and climatic changes on water and energy cycle in the upper Midwest United States. <i>International Journal of Climatology</i> , 2010, 30, 2025-2044.	3.5	99
13	The impact of urban development on hydrologic regime from catchment to basin scales. <i>Landscape and Urban Planning</i> , 2011, 103, 237-247.	7.5	95
14	Streamflow simulations of the terrestrial Arctic domain. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	93
15	Regional hydrologic response to climate change in the conterminous United States using high-resolution hydroclimate simulations. <i>Global and Planetary Change</i> , 2016, 143, 100-117.	3.5	92
16	Influence of climate model biases and daily-scale temperature and precipitation events on hydrological impacts assessment: A case study of the United States. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	86
17	Near-term acceleration of hydroclimatic change in the western U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 10,676.	3.3	86
18	Estimation of the effects of climate variability on crop yield in the Midwest USA. <i>Agricultural and Forest Meteorology</i> , 2016, 216, 141-156.	4.8	78

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19	State of the Climate in 2008. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, S1-S196.	3.3	74
20	Hydroclimatic Response of Watersheds to Urban Intensity: An Observational and Modeling-Based Analysis for the White River Basin, Indiana. <i>Journal of Hydrometeorology</i> , 2010, 11, 122-138.	1.9	74
21	Assessment of land cover change on the hydrology of a Brazilian headwater watershed using the Distributed Hydrology-Soil-Vegetation Model. <i>Catena</i> , 2016, 143, 7-17.	5.0	62
22	Separating snow, clean and debris covered ice in the Upper Indus Basin, Hindukush-Karakoram-Himalayas, using Landsat images between 1998 and 2002. <i>Journal of Hydrology</i> , 2015, 521, 46-64.	5.4	61
23	Corn Response to Climate Stress Detected with Satellite-Based NDVI Time Series. <i>Remote Sensing</i> , 2016, 8, 269.	4.0	61
24	Response of evapotranspiration and water availability to changing climate and land cover on the Mongolian Plateau during the 21st century. <i>Global and Planetary Change</i> , 2013, 108, 85-99.	3.5	60
25	Simulated effect of drainage water management operational strategy on hydrology and crop yield for Drummer soil in the Midwestern United States. <i>Agricultural Water Management</i> , 2009, 96, 653-665.	5.6	57
26	Detecting subsurface drainage systems and estimating drain spacing in intensively managed agricultural landscapes. <i>Agricultural Water Management</i> , 2009, 96, 627-637.	5.6	55
27	A spatially distributed model for the dynamic prediction of sediment erosion and transport in mountainous forested watersheds. <i>Water Resources Research</i> , 2006, 42, .	4.2	51
28	Lake Ice phenology of small lakes: Impacts of climate variability in the Great Lakes region. <i>Global and Planetary Change</i> , 2011, 76, 166-185.	3.5	49
29	Impacts of drainage water management on subsurface drain flow, nitrate concentration, and nitrate loads in Indiana. <i>Journal of Soils and Water Conservation</i> , 2012, 67, 474-484.	1.6	47
30	Nitrate and phosphorus transport through subsurface drains under free and controlled drainage. <i>Water Research</i> , 2018, 142, 196-207.	11.3	46
31	Dynamics of nitrate and chloride during storm events in agricultural catchments with different subsurface drainage intensity (Indiana, USA). <i>Journal of Hydrology</i> , 2012, 466-467, 1-10.	5.4	45
32	Biophysical and hydrological effects of future climate change including trends in CO ₂ , in the St. Joseph River watershed, Eastern Corn Belt. <i>Agricultural Water Management</i> , 2017, 180, 280-296.	5.6	44
33	Impact of Vertical Hydraulic Gradient on Rill Erodibility and Critical Shear Stress. <i>Soil Science Society of America Journal</i> , 2010, 74, 1914-1921.	2.2	40
34	Parameterization of Lakes and Wetlands for Energy and Water Balance Studies in the Great Lakes Region*. <i>Journal of Hydrometeorology</i> , 2010, 11, 1057-1082.	1.9	36
35	The effects of forest roads and harvest on catchment hydrology in a mountainous maritime environment. <i>Water Science and Application</i> , 2001, , 145-164.	0.3	35
36	Development and application of a distributed modeling approach to assess the watershed-scale impact of drainage water management. <i>Agricultural Water Management</i> , 2012, 107, 23-33.	5.6	31

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37	Standardized research protocols enable transdisciplinary research of climate variation impacts in corn production systems. <i>Journal of Soils and Water Conservation</i> , 2014, 69, 532-542.	1.6	31
38	Changing thermal dynamics of lakes in the Great Lakes region: Role of ice cover feedbacks. <i>Global and Planetary Change</i> , 2011, 75, 155-172.	3.5	29
39	Evaluation of Simulated Strategies for Reducing Nitrate–Nitrogen Losses through Subsurface Drainage Systems. <i>Journal of Environmental Quality</i> , 2012, 41, 217-228.	2.0	28
40	Quantification of uncertainty in estimated nitrate-N loads in agricultural watersheds. <i>Journal of Hydrology</i> , 2014, 519, 106-116.	5.4	28
41	Impact of a two-stage ditch on channel water quality. <i>Agricultural Water Management</i> , 2017, 192, 126-137.	5.6	28
42	Adaptive Targeting: Engaging Farmers to Improve Targeting and Adoption of Agricultural Conservation Practices. <i>Journal of the American Water Resources Association</i> , 2015, 51, 973-991.	2.4	21
43	Agricultural impacts of climate change in Indiana and potential adaptations. <i>Climatic Change</i> , 2020, 163, 2005-2027.	3.6	21
44	Simulation of high-latitude hydrological processes in the Torneå–Kalix basin: PILPS Phase 2(e). <i>Global and Planetary Change</i> , 2003, 38, 55-71.	3.5	20
45	Soil Systems for Upscaling Saturated Hydraulic Conductivity for Hydrological Modeling in the Critical Zone. <i>Vadose Zone Journal</i> , 2018, 17, 1-20.	2.2	20
46	Automated Identification of Tile Lines from Remotely Sensed Data. <i>Transactions of the ASABE</i> , 2008, 51, 1937-1950.	1.1	18
47	Detection of changes in hydrologic system memory associated with urbanization in the Great Lakes region. <i>Water Resources Research</i> , 2014, 50, 3750-3763.	4.2	17
48	Outsourcing governance in Peru’s integrated water resources management. <i>Land Use Policy</i> , 2021, 101, 105105.	5.6	17
49	Development of Strategy for SWAT Hydrologic Modeling in Data-Scarce Regions of Peru. <i>Journal of Hydrologic Engineering - ASCE</i> , 2021, 26, .	1.9	17
50	Comparison of two model calibration approaches and their influence on future projections under climate change in the Upper Indus Basin. <i>Climatic Change</i> , 2020, 163, 1227-1246.	3.6	16
51	Climate Variability and Drain Spacing Influence on Drainage Water Management System Operation. <i>Vadose Zone Journal</i> , 2010, 9, 43-52.	2.2	15
52	Sensitivity and Uncertainty Analysis of the L-THIA-LID 2.1 Model. <i>Water Resources Management</i> , 2016, 30, 4927-4949.	3.9	15
53	Estimating drain flow from measured water table depth in layered soils under free and controlled drainage. <i>Journal of Hydrology</i> , 2018, 556, 339-348.	5.4	12
54	Hydrologic Analysis of an Intensively Irrigated Area in Southern Peru Using a Crop-Field Scale Framework. <i>Water (Switzerland)</i> , 2021, 13, 318.	2.7	12

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55	Effects of Controlled Drainage on Water Table Recession Rate. Transactions of the ASABE, 2017, 60, 813-821.	1.1	11
56	The Wabash Sampling Blitz: A Study on the Effectiveness of Citizen Science. Citizen Science: Theory and Practice, 2016, 1, 3.	1.2	11
57	Hydrologic controls of controlled and free draining subsurface drainage systems. Agricultural Water Management, 2019, 213, 605-615.	5.6	9
58	Groundwater Doctrine and Water Withdrawals in the United States. Water Resources Management, 2020, 34, 4037-4052.	3.9	9
59	Climate change impacts and strategies for adaptation for water resource management in Indiana. Climatic Change, 2021, 165, 1.	3.6	9
60	Coproduction Challenges in the Context of Changing Rural Livelihoods. Journal of Contemporary Water Research and Education, 2020, 171, 111-126.	0.7	9
61	Evaluation of surface ponding and runoff generation in a seasonally frozen drained agricultural field. Journal of Hydrology, 2020, 588, 124985.	5.4	8
62	Long-term impacts of drain spacing, crop management, and weather on nitrate leaching to subsurface drains. Journal of Environmental Quality, 2021, 50, 627-638.	2.0	8
63	Estimation of Nonpoint Source Nitrate Concentrations in Indiana Rivers Based on Agricultural Drainage in the Watershed. Journal of the American Water Resources Association, 2014, 50, 1501-1514.	2.4	7
64	Integrated Hydrologic and Hydraulic Analysis of Torrential Flood Hazard in Arequipa, Peru. Journal of Contemporary Water Research and Education, 2020, 171, 93-110.	0.7	7
65	Streamflow Impacts of Management and Environmental Change in the Upper Wabash River Basin. Journal of Hydrologic Engineering - ASCE, 2019, 24, 05018034.	1.9	6
66	Quantifying Effects of Excess Water Stress at Early Soybean Growth Stages Using Unmanned Aerial Systems. Remote Sensing, 2021, 13, 2911.	4.0	5
67	Assessment of Arequipa's Hydrometeorological Monitoring Infrastructure to Support Water Management Decisions. Journal of Contemporary Water Research and Education, 2020, 171, 27-48.	0.7	5
68	Inferring Sediment Transport Capacity from Soil Microtopography Changes on a Laboratory Hillslope. Water (Switzerland), 2021, 13, 929.	2.7	3
69	Creating a Collaboration Framework to Evaluate International University-led Water Research Partnerships. Journal of Contemporary Water Research and Education, 2020, 171, 9-26.	0.7	3
70	Development and Sensitivity Analysis of an Online Tool for Evaluating Drainage Water Recycling Decisions. Transactions of the ASABE, 2020, 63, 1991-2002.	1.1	3
71	The use of electrical conductivity to develop temporally precise breakthrough curves in tracer injection experiments. Journal of Hydrology, 2020, 588, 124998.	5.4	1
72	Addressing Water Resources and Environmental Quality Programming Needs in Arequipa, Peru. Journal of Contemporary Water Research and Education, 2021, 173, 1-12.	0.7	1

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73	Does crop insurance inhibit climate change technology adoption?. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2022, 27, 1.	2.1	1
74	Challenges and Opportunities of International University Partnerships to Support Water Management. <i>Journal of Contemporary Water Research and Education</i> , 2020, 171, 1-8.	0.7	0