

Bethany Neilson

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,153
citations

394421

19
h-index

454955

30
g-index

67
all docs

67
docs citations

67
times ranked

1589
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid Physically Based and Deep Learning Modeling of a Snow Dominated, Mountainous, Karst Watershed. <i>Water Resources Research</i> , 2022, 58, .	4.2	15
2	Do headwater lakes moderate downstream temperature response to forest harvesting? Illustrating opportunities and obstacles associated with virtual experiments. <i>Hydrological Processes</i> , 2022, 36, .	2.6	1
3	Water Storage Decisions and Consumptive Use May Constrain Ecosystem Management under Severe Sustained Drought. <i>Journal of the American Water Resources Association</i> , 2022, 58, 654-672.	2.4	12
4	Evaluation of the ERA5 Land Reanalysis Data Set for Process-Based River Temperature Modeling Over Data Sparse and Topographically Complex Regions. <i>Water Resources Research</i> , 2022, 58, .	4.2	3
5	Riverbed Temperature and Heat Transport in a Hydropeaked River. <i>Water Resources Research</i> , 2021, 57, e2021WR029609.	4.2	9
6	Ungaged inflow and loss patterns in urban and agricultural subreaches of the Logan River Observatory. <i>Hydrological Processes</i> , 2021, 35, e14097.	2.6	4
7	Source or sink? Quantifying beaver pond influence on non-point source pollutant transport in the Intermountain West. <i>Journal of Environmental Management</i> , 2021, 285, 112127.	7.8	12
8	Lake Outflow and Hillslope Lateral Inflows Dictate Thermal Regimes of Forested Streams Draining Small Lakes. <i>Water Resources Research</i> , 2021, 57, e2020WR028136.	4.2	13
9	Combined influences of irrigation diversions and associated subsurface return flows on river temperature in a semi-arid region. <i>Hydrological Processes</i> , 2021, 35, e14283.	2.6	6
10	Detailed streamflow data for understanding hydrologic responses in the Logan River Observatory. <i>Hydrological Processes</i> , 2021, 35, e14268.	2.6	1
11	CFD Model of the Density-Driven Bidirectional Flows through the West Crack Breach in the Great Salt Lake Causeway. <i>Water (Switzerland)</i> , 2021, 13, 2423.	2.7	2
12	Aerobic respiration in riparian exchange zones of regulated river corridors. <i>Hydrological Processes</i> , 2021, 35, .	2.6	2
13	A distributed analysis of lateral inflows in an Alaskan Arctic watershed underlain by continuous permafrost. <i>Hydrological Processes</i> , 2020, 34, 633-648.	2.6	5
14	Beaver dam influences on streamflow hydraulic properties and thermal regimes. <i>Science of the Total Environment</i> , 2020, 718, 134853.	8.0	14
15	Water Temperature Controls for Regulated Canyon-Bound Rivers. <i>Water Resources Research</i> , 2020, 56, e2020WR027566.	4.2	13
16	Empirical Models for Predicting Water and Heat Flow Properties of Permafrost Soils. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087646.	4.0	18
17	Active Layer Groundwater Flow: The Interrelated Effects of Stratigraphy, Thaw, and Topography. <i>Water Resources Research</i> , 2019, 55, 6555-6576.	4.2	29
18	Quantifying thermal refugia connectivity by combining temperature modeling, distributed temperature sensing, and thermal infrared imaging. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 2965-2982.	4.9	24

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19	Analysis of the Effects of Dam Release Properties and Ambient Groundwater Flow on Surface Water-Groundwater Exchange Over a 100-km Long Reach. <i>Water Resources Research</i> , 2019, 55, 8526-8546.	4.2	30
20	Quantifying Reach-Average Effects of Hyporheic Exchange on Arctic River Temperatures in an Area of Continuous Permafrost. <i>Water Resources Research</i> , 2019, 55, 1951-1971.	4.2	15
21	Effects of vertical hydrodynamic mixing on photomineralization of dissolved organic carbon in arctic surface waters. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 748-760.	3.5	8
22	Parallel multi-objective calibration of a component-based river temperature model. <i>Environmental Modelling and Software</i> , 2019, 116, 57-71.	4.5	13
23	Estimating Discharge in Low-Order Rivers With High-Resolution Aerial Imagery. <i>Water Resources Research</i> , 2018, 54, 863-878.	4.2	14
24	The effects of floods on the temperature of riparian groundwater. <i>Hydrological Processes</i> , 2018, 32, 1267-1281.	2.6	14
25	Groundwater Flow and Exchange Across the Land Surface Explain Carbon Export Patterns in Continuous Permafrost Watersheds. <i>Geophysical Research Letters</i> , 2018, 45, 7596-7605.	4.0	37
26	Stream Centric Methods for Determining Groundwater Contributions in Karst Mountain Watersheds. <i>Water Resources Research</i> , 2018, 54, 6708-6724.	4.2	20
27	Assessing seasonal flow dynamics at a lagoon saltwater-freshwater interface using a dual tracer approach. <i>Journal of Hydrology: Regional Studies</i> , 2018, 17, 24-35.	2.4	12
28	Nutrient processes at the stream-lake interface for a channelized versus unmodified stream mouth. <i>Water Resources Research</i> , 2017, 53, 237-256.	4.2	8
29	Persistent Urban Influence on Surface Water Quality via Impacted Groundwater. <i>Environmental Science & Technology</i> , 2017, 51, 9477-9487.	10.0	34
30	Impacts of beaver dams on channel hydraulics and substrate characteristics in a mountain stream. <i>Ecohydrology</i> , 2017, 10, e1767.	2.4	12
31	Denitrification in the banks of fluctuating rivers: The effects of river stage amplitude, sediment hydraulic conductivity and dispersivity, and ambient groundwater flow. <i>Water Resources Research</i> , 2017, 53, 7951-7967.	4.2	95
32	Groundwater exchanges near a channelized versus unmodified stream mouth discharging to a subalpine lake. <i>Water Resources Research</i> , 2016, 52, 2157-2177.	4.2	11
33	Water temperature controls in low arctic rivers. <i>Water Resources Research</i> , 2016, 52, 4358-4376.	4.2	20
34	Isolating parameter sensitivity in reach scale transient storage modeling. <i>Advances in Water Resources</i> , 2016, 89, 24-31.	3.8	2
35	ROLES OF GROUNDWATER/SURFACE WATER EXCHANGES IN ARCTIC STREAM AND RIVER TEMPERATURE. , 2016, , .		0
36	Spatial considerations of stream hydraulics in reach scale temperature modeling. <i>Water Resources Research</i> , 2015, 51, 5566-5581.	4.2	9

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37	Impacts of beaver dams on hydrologic and temperature regimes in a mountain stream. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 3541-3556.	4.9	55
38	Controls on dissolved organic matter (DOM) degradation in a headwater stream: the influence of photochemical and hydrological conditions in determining light-limitation or substrate-limitation of photo-degradation. <i>Biogeosciences</i> , 2015, 12, 6669-6685.	3.3	79
39	Development of a Minimalistic Data Collection Strategy for QUAL2Kw. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2015, 141, .	2.6	7
40	Analysis of the temperature dynamics of a proglacial river using time-lapse thermal imaging and energy balance modeling. <i>Journal of Hydrology</i> , 2014, 519, 1963-1973.	5.4	27
41	Collaborative Approach to Calibration of a Riverine Water Quality Model. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, 393-405.	2.6	6
42	Effects of fine sediment, hyporheic flow, and spawning site characteristics on survival and development of bull trout embryos. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2014, 71, 1059-1071.	1.4	26
43	The influence of spatially variable stream hydraulics on reach scale transient storage modeling. <i>Water Resources Research</i> , 2014, 50, 9287-9299.	4.2	9
44	Deducing the spatial variability of exchange within a longitudinal channel water balance. <i>Hydrological Processes</i> , 2014, 28, 3088-3103.	2.6	19
45	A modeling approach for assessing the effect of multiple alpine lakes in sequence on nutrient transport. <i>Aquatic Sciences</i> , 2013, 75, 199-212.	1.5	19
46	Simple Optimization Method to Determine Best Management Practices to Reduce Phosphorus Loading in Echo Reservoir, Utah. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2013, 139, 122-125.	2.6	7
47	Thermal remote sensing with an autonomous unmanned aerial remote sensing platform for surface stream temperatures. , 2012, , .		27
48	Spectral scaling of heat fluxes in streambed sediments. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	31
49	Application of high-resolution, remotely sensed data for transient storage modeling parameter estimation. <i>Water Resources Research</i> , 2012, 48, .	4.2	16
50	Approximation of inverse Laplace transform solution to heat transport in a stream system. <i>Water Resources Research</i> , 2012, 48, .	4.2	4
51	An analytical solution to main channel heat transport with surface heat flux. <i>Advances in Water Resources</i> , 2012, 47, 67-75.	3.8	7
52	Variability of in-stream and riparian storage in a beaded arctic stream. <i>Hydrological Processes</i> , 2012, 26, 2938-2950.	2.6	22
53	Modelling in-stream pool temperature variability in a beaded arctic stream. <i>Hydrological Processes</i> , 2012, 26, 3921-3933.	2.6	10
54	Increasing parameter certainty and data utility through multi-objective calibration of a spatially distributed temperature and solute model. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 1547-1561.	4.9	10

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55	Approaches to estimate uncertainty in longitudinal channel water balances. Journal of Hydrology, 2010, 394, 357-369.	5.4	37
56	Collaborative Calibration of a Water Quality Model of an Urbanized River. , 2010, , .		0
57	Solar radiative heating of fiber-optic cables used to monitor temperatures in water. Water Resources Research, 2010, 46, .	4.2	38
58	Two-zone transient storage modeling using temperature and solute data with multiobjective calibration: 1. Temperature. Water Resources Research, 2010, 46, .	4.2	20
59	Two-zone transient storage modeling using temperature and solute data with multiobjective calibration: 2. Temperature and solute. Water Resources Research, 2010, 46, .	4.2	25
60	Data collection methodology for dynamic temperature model testing and corroboration. Hydrological Processes, 2009, 23, 2902-2914.	2.6	25
61	Using Bayesian networks to model watershed management decisions: an East Canyon Creek case study. Journal of Hydroinformatics, 2005, 7, 267-282.	2.4	68
62	GIS-based Watershed Data Viewer and Water Quality Data Analyst. Proceedings of the Water Environment Federation, 2002, 2002, 710-738.	0.0	0
63	A Bayesian Decision Network Engine for Internet-Based Stakeholder Decision-Making. , 2001, , 1.		8
64	Application of Bayesian Decision Networks To Total Maximum Daily Load Analysis. , 0, , .		0