

Laurel G Larsen

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

2,330
citations

218677

26
h-index

214800

47
g-index

48
all docs

48
docs citations

48
times ranked

3697
citing authors

#	ARTICLE	IF	CITATIONS
1	Iterative near-term ecological forecasting: Needs, opportunities, and challenges. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1424-1432.	7.1	400
2	How Vegetation and Sediment Transport Feedbacks Drive Landscape Change in the Everglades and Wetlands Worldwide. American Naturalist, 2010, 176, E66-E79.	2.1	123
3	A DELICATE BALANCE: ECOHYDROLOGICAL FEEDBACKS GOVERNING LANDSCAPE MORPHOLOGY IN A LOTIC PEATLAND. Ecological Monographs, 2007, 77, 591-614.	5.4	109
4	Making ecological models adequate. Ecology Letters, 2018, 21, 153-166.	6.4	100
5	Hydrogeomorphology of the hyporheic zone: Stream solute and fine particle interactions with a dynamic streambed. Journal of Geophysical Research, 2012, 117, .	3.3	99
6	Directional connectivity in hydrology and ecology. Ecological Applications, 2012, 22, 2204-2220.	3.8	98
7	Review: Sources of Hydrological Model Uncertainties and Advances in Their Analysis. Water (Switzerland), 2021, 13, 28.	2.7	93
8	Tracer-based characterization of hyporheic exchange and benthic biolayers in streams. Water Resources Research, 2017, 53, 1575-1594.	4.2	80
9	Identifying fluorescent pulp mill effluent in the Gulf of Maine and its watershed. Marine Pollution Bulletin, 2012, 64, 1678-1687.	5.0	76
10	Modeling of hydroecological feedbacks predicts distinct classes of landscape pattern, process, and restoration potential in shallow aquatic ecosystems. Geomorphology, 2011, 126, 279-296.	2.6	75
11	Land Use Change Increases Streamflow Across the Arc of Deforestation in Brazil. Geophysical Research Letters, 2018, 45, 3520-3530.	4.0	69
12	Hydroecological factors governing surface water flow on a low-gradient floodplain. Water Resources Research, 2009, 45, .	4.2	66
13	Recent and Historic Drivers of Landscape Change in the Everglades Ridge, Slough, and Tree Island Mosaic. Critical Reviews in Environmental Science and Technology, 2011, 41, 344-381.	12.8	62
14	Regional sensitivities of seasonal snowpack to elevation, aspect, and vegetation cover in western North America. Water Resources Research, 2017, 53, 6908-6926.	4.2	54
15	Air-water gas exchange and CO ₂ flux in a mangrove-dominated estuary. Geophysical Research Letters, 2014, 41, 108-113.	4.0	51
16	Appropriate complexity landscape modeling. Earth-Science Reviews, 2016, 160, 111-130.	9.1	50
17	Exploratory Modeling: Extracting Causality From Complexity. Eos, 2014, 95, 285-286.	0.1	49
18	Multiscale flow-vegetation-sediment feedbacks in low-gradient landscapes. Geomorphology, 2019, 334, 165-193.	2.6	46

#	ARTICLE	IF	CITATIONS
19	Assessing structural, functional and effective hydrologic connectivity with brain neuroscience methods: State-of-the-art and research directions. <i>Earth-Science Reviews</i> , 2018, 178, 29-47.	9.1	41
20	Tradeoffs among hydrodynamics, sediment fluxes and vegetation community in the Virginia Coast Reserve, USA. <i>Estuarine, Coastal and Shelf Science</i> , 2018, 210, 98-108.	2.1	39
21	Predicting bed shear stress and its role in sediment dynamics and restoration potential of the Everglades and other vegetated flow systems. <i>Ecological Engineering</i> , 2009, 35, 1773-1785.	3.6	38
22	Using fluorescence spectroscopy to trace seasonal DOM dynamics, disturbance effects, and hydrologic transport in the Florida Everglades. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	38
23	Linking metrics of landscape pattern to hydrological process in a lotic wetland. <i>Landscape Ecology</i> , 2015, 30, 1893-1912.	4.2	38
24	Fine particle retention within stream storage areas at base flow and in response to a storm event. <i>Water Resources Research</i> , 2017, 53, 5690-5705.	4.2	37
25	Morphologic and transport properties of natural organic floc. <i>Water Resources Research</i> , 2009, 45, .	4.2	35
26	Abiotic habitat thresholds for salmonid over-summer survival in intermittent streams. <i>Ecosphere</i> , 2017, 8, e01645.	2.2	31
27	Disrupted carbon cycling in restored and unrestored urban streams: Critical timescales and controls. <i>Limnology and Oceanography</i> , 2017, 62, S160.	3.1	29
28	Dynamic hyporheic exchange at intermediate timescales: Testing the relative importance of evapotranspiration and flood pulses. <i>Water Resources Research</i> , 2014, 50, 318-335.	4.2	28
29	Predicting organic floc transport dynamics in shallow aquatic ecosystems: Insights from the field, the laboratory, and numerical modeling. <i>Water Resources Research</i> , 2009, 45, .	4.2	27
30	The Utility of Information Flow in Formulating Discharge Forecast Models: A Case Study From an Arid Snow-Dominated Catchment. <i>Water Resources Research</i> , 2020, 56, e2019WR024908.	4.2	25
31	Groundwater Is Key to Salmonid Persistence and Recruitment in Intermittent Mediterranean Climate Streams. <i>Water Resources Research</i> , 2018, 54, 8909-8930.	4.2	22
32	Fluorescence-based source tracking of organic sediment in restored and unrestored urban streams. <i>Limnology and Oceanography</i> , 2015, 60, 1439-1461.	3.1	21
33	Field flume reveals aquatic vegetation's role in sediment and particulate phosphorus transport in a shallow aquatic ecosystem. <i>Geomorphology</i> , 2011, 126, 297-313.	2.6	20
34	Mechanisms of nutrient retention and its relation to flow connectivity in river floodplain corridors. <i>Freshwater Science</i> , 2015, 34, 187-205.	1.8	18
35	Less Fine Particle Retention in a Restored Versus Unrestored Urban Stream: Balance Between Hyporheic Exchange, Resuspension, and Immobilization. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1425-1439.	3.0	17
36	Ecogeomorphic Feedbacks that Grow Deltas. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 3228-3250.	2.8	17

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37	Controls on the size distributions of shallow landslides. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	17
38	Complex networks of functional connectivity in a wetland reconnected to its floodplain. Water Resources Research, 2017, 53, 6089-6108.	4.2	16
39	Controls of Suspended Sediment Concentration, Nutrient Content, and Transport in a Subtropical Wetland. Wetlands, 2010, 30, 39-54.	1.5	15
40	How Important Is Connectivity for Surface Water Fluxes? A Generalized Expression for Flow Through Heterogeneous Landscapes. Geophysical Research Letters, 2017, 44, 10,349.	4.0	14
41	Persistence and diversity of directional landscape connectivity improves biomass pulsing in simulations of expanding and contracting wetlands. Ecological Complexity, 2016, 28, 1-11.	2.9	9
42	Linking Hydrology and Dissolved Organic Matter Characteristics in a Subtropical Wetland: A Long-Term Study of the Florida Everglades. Global Biogeochemical Cycles, 2020, 34, e2020GB006648.	4.9	9
43	Using Information Theory to Evaluate Directional Precipitation Interactions Over the West Sahel Region in Observations and Models. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1463-1473.	3.3	8
44	From savanna to suburb: Effects of 160 years of landscape change on carbon storage in Silicon Valley, California. Landscape and Urban Planning, 2020, 195, 103712.	7.5	6
45	Effects of Stem Density and Reynolds Number on Fine Sediment Interception by Emergent Vegetation. Geosciences (Switzerland), 2021, 11, 136.	2.2	5
46	<scp>CHOSEN</scp>: A synthesis of hydrometeorological data from intensively monitored catchments and comparative analysis of hydrologic extremes. Hydrological Processes, 2021, 35, e14429.	2.6	4
47	A Functional Form for Fine Sediment Interception in Vegetated Environments. Geosciences (Switzerland), 2021, 11, 157.	2.2	3
48	Strength and Memory of Precipitation's Control Over Streamflow Across the Conterminous United States. Water Resources Research, 2022, 58, .	4.2	3