Laurel G Larsen

List of Publications by Year
in descending order

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	Strength and Memory of Precipitation's Control Over Streamflow Across the Conterminous United States. Water Resources Research, 2022, 58, .	4.2	3
2	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
3	Effects of Stem Density and Reynolds Number on Fine Sediment Interception by Emergent Vegetation. Geosciences (Switzerland), 2021, 11, 136.	2.2	5
4	A Functional Form for Fine Sediment Interception in Vegetated Environments. Geosciences (Switzerland), 2021, 11, 157.	2.2	3
5	Review: Sources of Hydrological Model Uncertainties and Advances in Their Analysis. Water (Switzerland), 2021, 13, 28.	2.7	93
6	<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
7	From savanna to suburb: Effects of 160Âyears of landscape change on carbon storage in Silicon Valley, California. Landscape and Urban Planning, 2020, 195, 103712.	7.5	6
8	Linking Hydrology and Dissolved Organic Matter Characteristics in a Subtropical Wetland: A Longâ€Term Study of the Florida Everglades. Global Biogeochemical Cycles, 2020, 34, e2020GB006648.	4.9	9
9	The Utility of Information Flow in Formulating Discharge Forecast Models: A Case Study From an Arid Snowâ€Dominated Catchment. Water Resources Research, 2020, 56, e2019WR024908.	4.2	25
10	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
11	Multiscale flow-vegetation-sediment feedbacks in low-gradient landscapes. Geomorphology, 2019, 334, 165-193.	2.6	46
12	Less Fine Particle Retention in a Restored Versus Unrestored Urban Stream: Balance Between Hyporheic Exchange, Resuspension, and Immobilization. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 1425-1439.	3.0	17
13	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
14	Making ecological models adequate. Ecology Letters, 2018, 21, 153-166.	6.4	100
15	Assessing structural, functional and effective hydrologic connectivity with brain neuroscience methods: State-of-the-art and research directions. Earth-Science Reviews, 2018, 178, 29-47.	9.1	41
16	Land Use Change Increases Streamflow Across the Arc of Deforestation in Brazil. Geophysical Research Letters, 2018, 45, 3520-3530.	4.0	69
17	Ecogeomorphic Feedbacks that Grow Deltas. Journal of Geophysical Research F: Earth Surface, 2018, 123, 3228-3250.	2.8	17
18	Groundwater Is Key to Salmonid Persistence and Recruitment in Intermittent Mediterraneanâ€Climate Streams. Water Resources Research, 2018, 54, 8909-8930.	4.2	22

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19	Tradeoffs among hydrodynamics, sediment fluxes and vegetation community in the Virginia Coast Reserve, USA. Estuarine, Coastal and Shelf Science, 2018, 210, 98-108.	2.1	39
20	Tracerâ€based characterization of hyporheic exchange and benthic biolayers in streams. Water Resources Research, 2017, 53, 1575-1594.	4.2	80
21	Abiotic habitat thresholds for salmonid overâ€summer survival in intermittent streams. Ecosphere, 2017, 8, e01645.	2.2	31
22	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
23	Disrupted carbon cycling in restored and unrestored urban streams: Critical timescales and controls. Limnology and Oceanography, 2017, 62, S160.	3.1	29
24	Fine particle retention within stream storage areas at base flow and in response to a storm event. Water Resources Research, 2017, 53, 5690-5705.	4.2	37
25	Complex networks of functional connectivity in a wetland reconnected to its floodplain. Water Resources Research, 2017, 53, 6089-6108.	4.2	16
26	Regional sensitivities of seasonal snowpack to elevation, aspect, and vegetation cover in western <scp>N</scp>orth <scp>A</scp>merica. Water Resources Research, 2017, 53, 6908-6926.	4.2	54
27	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
28	Appropriate complexity landscape modeling. Earth-Science Reviews, 2016, 160, 111-130.	9.1	50
29	Fluorescenceâ€based source tracking of organic sediment in restored and unrestored urban streams. Limnology and Oceanography, 2015, 60, 1439-1461.	3.1	21
30	Mechanisms of nutrient retention and its relation to flow connectivity in riverâ€“floodplain corridors. Freshwater Science, 2015, 34, 187-205.	1.8	18
31	Linking metrics of landscape pattern to hydrological process in a lotic wetland. Landscape Ecology, 2015, 30, 1893-1912.	4.2	38
32	Exploratory Modeling: Extracting Causality From Complexity. Eos, 2014, 95, 285-286.	0.1	49
33	Dynamic hyporheic exchange at intermediate timescales: Testing the relative importance of evapotranspiration and flood pulses. Water Resources Research, 2014, 50, 318-335.	4.2	28
34	Airâ€water gas exchange and CO₂ flux in a mangroveâ€dominated estuary. Geophysical Research Letters, 2014, 41, 108-113.	4.0	51
35	Directional connectivity in hydrology and ecology. Ecological Applications, 2012, 22, 2204-2220.	3.8	98
36	Hydrogeomorphology of the hyporheic zone: Stream solute and fine particle interactions with a dynamic streambed. Journal of Geophysical Research, 2012, 117, .	3.3	99

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37	Identifying fluorescent pulp mill effluent in the Gulf of Maine and its watershed. Marine Pollution Bulletin, 2012, 64, 1678-1687.	5.0	76
38	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
39	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
40	Field flume reveals aquatic vegetation's role in sediment and particulate phosphorus transport in a shallow aquatic ecosystem. Geomorphology, 2011, 126, 297-313.	2.6	20
41	Controls of Suspended Sediment Concentration, Nutrient Content, and Transport in a Subtropical Wetland. Wetlands, 2010, 30, 39-54.	1.5	15
42	How Vegetation and Sediment Transport Feedbacks Drive Landscape Change in the Everglades and Wetlands Worldwide. American Naturalist, 2010, 176, E66-E79.	2.1	123
43	Using fluorescence spectroscopy to trace seasonal DOM dynamics, disturbance effects, and hydrologic transport in the Florida Everglades. Journal of Geophysical Research, 2010, 115, .	3.3	38
44	Predicting bed shear stress and its role in sediment dynamics and restoration potential of the Everglades and other vegetated flow systems. Ecological Engineering, 2009, 35, 1773-1785.	3.6	38
45	Morphologic and transport properties of natural organic floc. Water Resources Research, 2009, 45, .	4.2	35
46	Hydroecological factors governing surface water flow on a lowâ€gradient floodplain. Water Resources Research, 2009, 45, .	4.2	66
47	Predicting organic floc transport dynamics in shallow aquatic ecosystems: Insights from the field, the laboratory, and numerical modeling. Water Resources Research, 2009, 45, .	4.2	27
48	A DELICATE BALANCE: ECOHYDROLOGICAL FEEDBACKS GOVERNING LANDSCAPE MORPHOLOGY IN A LOTIC PEATLAND. Ecological Monographs, 2007, 77, 591-614.	5.4	109