Lawrence E Band

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Spatial asynchrony in environmental and economic benefits of stream restoration. Environmental Research Letters, 2022, 17, 054004.	5.2	1
2	Guidance on evaluating parametric model uncertainty at decision-relevant scales. Hydrology and Earth System Sciences, 2022, 26, 2519-2539.	4.9	1
3	The Nonpoint Sources and Transport of Baseflow Nitrogen Loading Across a Developed Ruralâ€Urban Gradient. Water Resources Research, 2022, 58, .	4.2	12
4	Vegetation structural change and CO2 fertilization more than offset gross primary production decline caused by reduced solar radiation in China. Agricultural and Forest Meteorology, 2021, 296, 108207.	4.8	44
5	A landscape approach to nitrogen cycling in urban lawns reveals the interaction between topography and human behaviors. Biogeochemistry, 2021, 152, 73-92.	3.5	5
6	Enhancing Efficacy of Water Quality Trading with Automation: A Case Study in Virginia's Nutrient Trading Program. Journal of the American Water Resources Association, 2021, 57, 374-390.	2.4	7
7	Evaluating Instream Restoration Effectiveness in Reducing Nitrogen Export from an Urban Catchment with a Dataâ€Model Approach. Journal of the American Water Resources Association, 2021, 57, 449-473.	2.4	6
8	Watershed‣cale Effective Hydraulic Properties of the Continental United States. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002440.	3.8	8
9	Eco-Hydrology and Hydraulics of Urban Watersheds—A Resilience Approach. , 2021, , .		0
10	Nonpoint Source Water Quality Trading outcomes: Landscape-scale patterns and integration with watershed management priorities. Journal of Environmental Management, 2021, 294, 112914.	7.8	12
11	Characterizing and classifying urban watersheds with compositional and structural attributes. Hydrological Processes, 2021, 35, e14339.	2.6	6
12	Are spatial patterns of soil moisture at plot scales generalisable across catchments, climates, and other characteristics? A synthesis of synoptic soil moisture across the Midâ€Atlantic. Hydrological Processes, 2021, 35, e14313.	2.6	1
13	Seasonal differences in future climate and streamflow variation in a watershed of Northern China. Journal of Hydrology: Regional Studies, 2021, 38, 100959.	2.4	4
14	Accounting for Adaptive Water Supply Management When Quantifying Climate and Land Cover Change Vulnerability. Water Resources Research, 2020, 56, e2019WR025614.	4.2	20
15	Climate Change May Increase the Drought Stress of Mesophytic Trees Downslope With Ongoing Forest Mesophication Under a History of Fire Suppression. Frontiers in Forests and Global Change, 2020, 3, .	2.3	10
16	Is Past Variability a Suitable Proxy for Future Change? A Virtual Catchment Experiment. Water Resources Research, 2020, 56, e2019WR026275.	4.2	22
17	A community nitrogen footprint analysis of Baltimore City, Maryland. Environmental Research Letters, 2020, 15, 075007.	5.2	7
18	Theoretical Perspectives of the Baltimore Ecosystem Study: Conceptual Evolution in a Social–Ecological Research Project. BioScience, 2020, 70, 297-314.	4.9	20

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19	An Empirical Reevaluation of Streamflow Recession Analysis at the Continental Scale. Water Resources Research, 2020, 56, e2019WR025448.	4.2	30
20	Nonâ€linear quickflow response as indicators of runoff generation mechanisms. Hydrological Processes, 2020, 34, 2949-2964.	2.6	20
21	No Proportional Increase of Terrestrial Gross Carbon Sequestration From the Greening Earth. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 2540-2553.	3.0	51
22	Transpiration and subsurface controls of streamflow recession characteristics. Hydrological Processes, 2019, 33, 2561-2575.	2.6	27
23	Effects of LiDAR DEM Smoothing and Conditioning Techniques on a Topographyâ€Based Wetland Identification Model. Water Resources Research, 2019, 55, 4343-4363.	4.2	20
24	A novel computational green infrastructure design framework for hydrologic and human benefits. Environmental Modelling and Software, 2019, 118, 252-261.	4.5	21
25	Ecosystem processes at the watershed scale: Influence of flowpath patterns of canopy ecophysiology on emergent catchment water and carbon cycling. Ecohydrology, 2019, 12, e2093.	2.4	19
26	Modelling the interaction of climate, forest ecosystem, and hydrology to estimate catchment dissolved organic carbon export. Hydrological Processes, 2019, 33, 1448-1464.	2.6	13
27	Hillslope Hydrology in Global Change Research and Earth System Modeling. Water Resources Research, 2019, 55, 1737-1772.	4.2	281
28	Development of a participatory Green Infrastructure design, visualization and evaluation system in a cloud supported jupyter notebook computing environment. Environmental Modelling and Software, 2019, 111, 121-133.	4.5	25
29	Leveraging Big Data Towards Functionally-Based, Catchment Scale Restoration Prioritization. Environmental Management, 2018, 62, 1007-1024.	2.7	7
30	Nonstationary Hydrologic Behavior in Forested Watersheds Is Mediated by Climateâ€Induced Changes in Growing Season Length and Subsequent Vegetation Growth. Water Resources Research, 2018, 54, 5359-5375.	4.2	52
31	Reanalysis of global terrestrial vegetation trends from MODIS products: Browning or greening?. Remote Sensing of Environment, 2017, 191, 145-155.	11.0	258
32	Variable nitrate concentration–discharge relationships in a forested watershed. Hydrological Processes, 2017, 31, 1817-1824.	2.6	47
33	A photosynthesisâ€based twoâ€leaf canopy stomatal conductance model for meteorology and air quality modeling with WRF/CMAQ PX LSM. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1930-1952.	3.3	39
34	Regional Soil Mapping Using Multi-Grade Representative Sampling and a Fuzzy Membership-Based Mapping Approach. Pedosphere, 2017, 27, 344-357.	4.0	29
35	Watershed impacts of climate and land use changes depend on magnitude and land use context. Ecohydrology, 2017, 10, e1870.	2.4	49
36	Nonstationarity in threshold response of stormflow in southern <scp>A</scp> ppalachian headwater catchments. Water Resources Research, 2017, 53, 6579-6596.	4.2	47

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37	Projected hydrological changes in the North Carolina piedmont using bias-corrected North American Regional Climate Change Assessment Program (NARCCAP) data. Journal of Hydrology: Regional Studies, 2017, 12, 273-288.	2.4	3
38	On the non-stationarity of hydrological response in anthropogenically unaffected catchments: an Australian perspective. Hydrology and Earth System Sciences, 2017, 21, 281-294.	4.9	30
39	Dynamics of nitrate concentrationâ€discharge patterns in an urban watershed. Water Resources Research, 2017, 53, 7349-7365.	4.2	74
40	Hypospadias and maternal exposure to atrazine via drinking water in the National Birth Defects Prevention study. Environmental Health, 2016, 15, 76.	4.0	27
41	Development of a coupled carbon and water model for estimating global gross primary productivity and evapotranspiration based on eddy flux and remote sensing data. Agricultural and Forest Meteorology, 2016, 223, 116-131.	4.8	85
42	Improved meteorology from an updated WRF/CMAQ modeling system with MODIS vegetation and albedo. Journal of Geophysical Research D: Atmospheres, 2016, 121, 2393-2415.	3.3	32
43	Key ecological responses to nitrogen are altered by climate change. Nature Climate Change, 2016, 6, 836-843.	18.8	261
44	Severe Flooding and Malaria Transmission in the Western Ugandan Highlands: Implications for Disease Control in an Era of Global Climate Change. Journal of Infectious Diseases, 2016, 214, 1403-1410.	4.0	53
45	Sensitivity of the Weather Research and Forecast/Community Multiscale Air Quality modeling system to MODIS LAI, FPAR, and albedo. Journal of Geophysical Research D: Atmospheres, 2015, 120, 8491-8511.	3.3	22
46	Mechanisms driving the seasonality of catchment scale nitrate export: Evidence for riparian ecohydrologic controls. Water Resources Research, 2015, 51, 3982-3997.	4.2	54
47	Climate Variation Overwhelms Efforts to Reduce Nitrogen Delivery to Coastal Waters. Ecosystems, 2015, 18, 1319-1331.	3.4	29
48	Understanding moisture stress on light use efficiency across terrestrial ecosystems based on global flux and remoteâ€sensing data. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 2053-2066.	3.0	45
49	Simulating vegetation controls on hurricaneâ€induced shallow landslides with a distributed ecohydrological model. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 361-378.	3.0	36
50	Green infrastructure stormwater management at the watershed scale: urban variable source area and watershed capacitance. Hydrological Processes, 2015, 29, 2268-2274.	2.6	65
51	In Memory of William H. Glaze (November 21, 1934–December 17, 2014). Environmental Science & Technology, 2015, 49, 687-688.	10.0	0
52	Soil property variation mapping through data mining of soil category maps. Hydrological Processes, 2015, 29, 2491-2503.	2.6	7
53	Statistical downscaling of precipitation on a spatially dependent network using a regional climate model. Stochastic Environmental Research and Risk Assessment, 2015, 29, 1835-1849.	4.0	5
54	Increasing detail of distributed runoff modeling using fuzzy logic in curve number. Environmental Earth Sciences, 2015, 73, 3197-3205.	2.7	5

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55	Effects of lateral nitrate flux and instream processes on dissolved inorganic nitrogen export in a forested catchment: A model sensitivity analysis. Water Resources Research, 2015, 51, 2680-2695.	4.2	18
56	Ecohydrology Models without Borders?. IFIP Advances in Information and Communication Technology, 2015, , 311-320.	0.7	1
57	The Influence of Forest Regrowth on the Stream Discharge in the North Carolina Piedmont Watersheds. Journal of the American Water Resources Association, 2014, 50, 57-73.	2.4	18
58	Effects of land use/land cover and climate changes on terrestrial net primary productivity in the Yangtze River Basin, China, from 2001 to 2010. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1092-1109.	3.0	87
59	Divergent phenological response to hydroclimate variability in forested mountain watersheds. Global Change Biology, 2014, 20, 2580-2595.	9.5	71
60	Water Science Software Institute: Agile and Open Source Scientific Software Development. Computing in Science and Engineering, 2014, 16, 18-26.	1.2	15
61	Forest Processes. Advances in Global Change Research, 2014, , 25-54.	1.6	3
62	Disturbance Regimes and Stressors. Advances in Global Change Research, 2014, , 55-92.	1.6	12
63	Covenants, cohesion, and community: The effects of neighborhood governance on lawn fertilization. Landscape and Urban Planning, 2013, 115, 30-38.	7.5	61
64	Local comprehensive plan quality and regional ecosystem protection: The case of the Jordan Lake watershed, North Carolina, U.S.A Land Use Policy, 2013, 31, 450-459.	5.6	43
65	Towards closing the watershed nitrogen budget: Spatial and temporal scaling of denitrification. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1105-1119.	3.0	62
66	Ecosystem processes at the watershed scale: Mapping and modeling ecohydrological controls of landslides. Geomorphology, 2012, 137, 159-167.	2.6	40
67	Phosphorus export across an urban to rural gradient in the Chesapeake Bay watershed. Journal of Geophysical Research, 2012, 117, .	3.3	116
68	Ecosystem processes at the watershed scale: Hydrologic vegetation gradient as an indicator for lateral hydrologic connectivity of headwater catchments. Water Resources Research, 2012, 48, .	4.2	82
69	Distributed Hydrologic Modeling in the Suburban Landscape: Assessing Parameter Transferability from Gauged Reference Catchments ¹ . Journal of the American Water Resources Association, 2012, 48, 546-557.	2.4	12
70	Tracking Nonpoint Source Nitrogen Pollution in Human-Impacted Watersheds. Environmental Science & Technology, 2011, 45, 8225-8232.	10.0	437
71	Topography-mediated controls on local vegetation phenology estimated from MODIS vegetation index. Landscape Ecology, 2011, 26, 541-556.	4.2	119
72	Downscaling real-time vegetation dynamics by fusing multi-temporal MODIS and Landsat NDVI in topographically complex terrain. Remote Sensing of Environment, 2011, 115, 2499-2512.	11.0	119

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73	Evaluation of the National Land Cover Database for Hydrologic Applications in Urban and Suburban Baltimore, Maryland ¹ . Journal of the American Water Resources Association, 2010, 46, 429-442.	2.4	32
74	Land Use and Climate Variability Amplify Contaminant Pulses. Eos, 2010, 91, 221-222.	0.1	43
75	Integrated Ecohydrologic Research and Hydroâ€Informatics. Journal of Contemporary Water Research and Education, 2009, 142, 16-24.	0.7	0
76	Energy, water, and carbon fluxes in a loblolly pine stand: Results from uniform and gappy canopy models with comparisons to eddy flux data. Journal of Geophysical Research, 2009, 114, .	3.3	22
77	Hydroâ€ecological linkages in urbanizing watersheds: An empirical assessment of inâ€stream nitrate loss and evidence of saturation kinetics. Journal of Geophysical Research, 2009, 114, .	3.3	12
78	Ecosystem processes at the watershed scale: Extending optimality theory from plot to catchment. Water Resources Research, 2009, 45, .	4.2	78
79	Nitrate Leaching and Nitrous Oxide Flux in Urban Forests and Grasslands. Journal of Environmental Quality, 2009, 38, 1848-1860.	2.0	146
80	Exchanges across Landâ€Waterâ€Scape Boundaries in Urban Systems. Annals of the New York Academy of Sciences, 2008, 1134, 213-232.	3.8	52
81	Understanding, Managing, and Minimizing Urban Impacts on Surface Water Nitrogen Loading. Annals of the New York Academy of Sciences, 2008, 1134, 61-96.	3.8	147
82	Evaluating drought effect on MODIS Gross Primary Production (GPP) with an ecoâ€hydrological model in the mountainous forest, East Asia. Global Change Biology, 2008, 14, 1037-1056.	9.5	69
83	Interaction between Urbanization and Climate Variability Amplifies Watershed Nitrate Export in Maryland. Environmental Science & Technology, 2008, 42, 5872-5878.	10.0	229
84	Beyond Urban Legends: An Emerging Framework of Urban Ecology, as Illustrated by the Baltimore Ecosystem Study. BioScience, 2008, 58, 139-150.	4.9	288
85	Streamflow distribution of non–point source nitrogen export from urbanâ€rural catchments in the Chesapeake Bay watershed. Water Resources Research, 2008, 44, .	4.2	133
86	Climatological Perspectives on the Rainfall Characteristics Associated with Landslides in Western North Carolina. Physical Geography, 2008, 29, 289-305.	1.4	26
87	Effects of Urban Land-Use Change on Biogeochemical Cycles. , 2007, , 45-58.		55
88	Using Transects to Sample Digital Orthophotography of Urbanizing Catchments to Provide Landscape Position Descriptions. GlScience and Remote Sensing, 2006, 43, 323-351.	5.9	4
89	Land use context and natural soil controls on plant community composition and soil nitrogen and carbon dynamics in urban and rural forests. Forest Ecology and Management, 2006, 236, 177-192.	3.2	115
90	From The Cover: Increased salinization of fresh water in the northeastern United States. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13517-13520.	7.1	731

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91	MVP: a model to simulate the spatial patterns of photosynthetically active radiation under discrete forest canopies. Canadian Journal of Forest Research, 2004, 34, 1192-1203.	1.7	20
92	Nitrogen input from residential lawn care practices in suburban watersheds in Baltimore county, MD. Journal of Environmental Planning and Management, 2004, 47, 737-755.	4.5	181
93	Nitrogen Fluxes and Retention in Urban Watershed Ecosystems. Ecosystems, 2004, 7, 393.	3.4	374
94	Down by the riverside: urban riparian ecology. Frontiers in Ecology and the Environment, 2003, 1, 315-321.	4.0	423
95	Multi-objective parameter estimation for simulating canopy transpiration in forested watersheds. Journal of Hydrology, 2003, 277, 230-247.	5.4	28
96	Soil Nitrogen Cycle Processes in Urban Riparian Zones. Environmental Science & Technology, 2002, 36, 4547-4552.	10.0	260
97	The potential impact of flooding on confined animal feeding operations in eastern North Carolina Environmental Health Perspectives, 2002, 110, 387-391.	6.0	83
98	Evaluating explicit and implicit routing for watershed hydro-ecological models of forest hydrology at the small catchment scale. Hydrological Processes, 2001, 15, 1415-1439.	2.6	62
99	Forest ecosystem processes at the watershed scale: hydrological and ecological controls of nitrogen export. Hydrological Processes, 2001, 15, 2013-2028.	2.6	129
100	Simulating runoff behavior in an urbanizing watershed. Computers, Environment and Urban Systems, 2000, 24, 5-22.	7.1	229
101	Modelling Watersheds as Spatial Object Hierarchies: Structure and Dynamics. Transactions in GIS, 2000, 4, 181-196.	2.3	57
102	Sensitivity of a high-elevation rocky mountain watershed to altered climate and CO2. Water Resources Research, 2000, 36, 89-99.	4.2	65
103	Continuous modeling of intermittent stormflows on a semi-arid agricultural catchment. Journal of Hydrology, 1999, 226, 11-29.	5.4	13
104	Simulations of snow distribution and hydrology in a mountain basin. Water Resources Research, 1999, 35, 1587-1603.	4.2	106
105	Extraction and representation of nested catchment areas from digital elevation models in lake-dominated topography. Water Resources Research, 1998, 34, 897-901.	4.2	47
106	Export of nitrogen from catchments within a temperate forest: Evidence for a unifying mechanism regulated by variable source area dynamics. Water Resources Research, 1998, 34, 3105-3120.	4.2	261
107	Exploring functional similarity in the export of Nitrate-N from forested catchments: A mechanistic modeling approach. Water Resources Research, 1998, 34, 3079-3093.	4.2	94
108	Derivation of Soil Properties Using a Soil Land Inference Model (SoLIM). Soil Science Society of America Journal, 1997, 61, 523-533.	2.2	170

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109	Variability of water fluxes through the black spruce (Picea mariana) canopy and feather moss (Pleurozium schreberi) carpet in the boreal forest of Northern Manitoba. Journal of Hydrology, 1997, 196, 310-323.	5.4	73
110	Forest ecosystem processes at the watershed scale: dynamic coupling of distributed hydrology and canopy growth. Hydrological Processes, 1997, 11, 1197-1217.	2.6	73
111	Regulation of Nitrate-N Release from Temperate Forests: A Test of the N Flushing Hypothesis. Water Resources Research, 1996, 32, 3337-3354.	4.2	268
112	Automated soil inference under fuzzy logic. Ecological Modelling, 1996, 90, 123-145.	2.5	133
113	Ecosystem processes at the watershed scale: Sensitivity to potential climate change. Limnology and Oceanography, 1996, 41, 928-938.	3.1	53
114	A strategic framework to eco-regionalize Ontario. Environmental Monitoring and Assessment, 1996, 39, 85-96.	2.7	8
115	Modelling temporal variability in the carbon balance of a spruce/moss boreal forest. Global Change Biology, 1996, 2, 343-366.	9.5	138
116	A Strategic Framework to Eco-Regionalize Ontario. , 1996, , 85-96.		5
117	A Knowledge-Based Approach to Data Integration for Soil Mapping. Canadian Journal of Remote Sensing, 1994, 20, 408-418.	2.4	94
118	Effect of land surface representation on forest water and carbon budgets. Journal of Hydrology, 1993, 150, 749-772.	5.4	76
119	Alpine Treeline Growth Variability: Simulation Using an Ecosystem Process Model. Arctic and Alpine Research, 1993, 25, 175.	1.3	13
120	Forest ecosystem processes at the watershed scale: incorporating hillslope hydrology. Agricultural and Forest Meteorology, 1993, 63, 93-126.	4.8	306
121	Classification of higher order topographic objects on digital terrain data. Computers, Environment and Urban Systems, 1992, 16, 473-496.	7.1	9
122	Forest ecosystem processes at the watershed scale: basis for distributed simulation. Ecological Modelling, 1991, 56, 171-196.	2.5	162
123	Distributed parameterization of complex terrain. Surveys in Geophysics, 1991, 12, 249-270.	4.6	4
124	Distributed Parameterization of Complex Terrain. , 1991, , 249-270.		4
125	Automating object representation of drainage basins. Computers and Geosciences, 1990, 16, 787-810.	4.2	33
126	A terrain-based watershed information system. Hydrological Processes, 1989, 3, 151-162.	2.6	81

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127	Spatial Aggregation of Complex Terrain. Geographical Analysis, 1989, 21, 279-293.	3.5	42
128	Strategies for large-scale, distributed hydrologic simulation. Applied Mathematics and Computation, 1988, 27, 23-37.	2.2	28
129	Effects of spatial variability and scale with implications to hydrologic modeling. Journal of Hydrology, 1988, 102, 29-47.	5.4	558
130	Topographic Partition of Watersheds with Digital Elevation Models. Water Resources Research, 1986, 22, 15-24.	4.2	564
131	Field parameterization of an empirical sheetwash transport equation. Catena, 1985, 12, 281-290.	5.0	15
132	Application of a photosynthesis model to an agricultural region of varied climates: California. Agricultural Meteorology, 1981, 24, 201-217.	0.6	10
133	Mapping Regional Forest Evapotranspiration And Photosynthesis By Coupling Satellite Data With Ecosystem Simulation. , 0, , .		1
134	Comparison of linear least squares unmixing methods and Gaussian maximum likelihood classification. , 0, , .		0
135	Sensitivity of Remotely Sensed Vegetation to Hydrologic Predictors across the Colorado River Basin, 2001–2019. Journal of the American Water Resources Association, 0, , .	2.4	1