Charles R Lane

List of Publications by Year
in descending order

58 papers	3,109 citations	147566 31 h-index	161609 54 g-index
58 all docs	58 docs citations	58 times ranked	2620 citing authors

#	Article	IF	Citations
1	Wetland Flowpaths Mediate Nitrogen and Phosphorus Concentrations across the Upper Mississippi River Basin. Journal of the American Water Resources Association, 2023, 59, 1162-1179.	1.0	9
2	Vulnerable Waters are Essential to Watershed Resilience. Ecosystems, 2023, 26, 1-28.	1.6	21
3	Seasonality of inundation in geographically isolated wetlands across the United States. Environmental Research Letters, 2022, 17, 054005.	2.2	5
4	Wetland restoration yields dynamic nitrate responses across the Upper Mississippi river basin. Environmental Research Communications, 2021, 3, 095002.	0.9	13
5	Improving global flood and drought predictions: integrating non-floodplain wetlands into watershed hydrologic models. Environmental Research Letters, 2021, 16, 091002.	2.2	15
6	Drivers and extent of surface water occurrence in the Selenga River Delta, Russia. Journal of Hydrology: Regional Studies, 2021, 38, 100945.	1.0	5
7	Watershed Modeling with Remotely Sensed Big Data: MODIS Leaf Area Index Improves Hydrology and Water Quality Predictions. Remote Sensing, 2020, 12, 2148.	1.8	29
8	Surface Depression and Wetland Water Storage Improves Major River Basin Hydrologic Predictions. Water Resources Research, 2020, 56, e2019WR026561.	1.7	45
9	Land-Cover Changes to Surface-Water Buffers in the Midwestern USA: 25 Years of Landsat Data Analyses (1993â€"2017). Remote Sensing, 2020, 12, 754.	1.8	13
10	A Hydrologic Landscapes Perspective on Groundwater Connectivity of Depressional Wetlands. Water (Switzerland), 2020, 12, 50.	1.2	20
11	Non-floodplain Wetlands Affect Watershed Nutrient Dynamics: A Critical Review. Environmental Science & Technology, 2019, 53, 7203-7214.	4.6	45
12	Integrating LiDAR data and multi-temporal aerial imagery to map wetland inundation dynamics using Google Earth Engine. Remote Sensing of Environment, 2019, 228, 1-13.	4.6	108
13	The Influence of Region of Interest Heterogeneity on Classification Accuracy in Wetland Systems. Remote Sensing, 2019, 11, 551.	1.8	11
14	Modeling Connectivity of Nonâ€floodplain Wetlands: Insights, Approaches, and Recommendations. Journal of the American Water Resources Association, 2019, 55, 559-577.	1.0	26
15	The potential role of very high-resolution imagery to characterise lake, wetland and stream systems across the Prairie Pothole Region, United States. International Journal of Remote Sensing, 2019, 40, 5768-5798.	1.3	17
16	Efficient Delineation of Nested Depression Hierarchy in Digital Elevation Models for Hydrological Analysis Using Levelâ€Set Method. Journal of the American Water Resources Association, 2019, 55, 354-368.	1.0	44
17	Relative Importance of Landscape Versus Local Wetland Characteristics for Estimating Wetland Denitrification Potential. Wetlands, 2019, 39, 127-137.	0.7	8
18	Featured Collection Introduction: Connectivity of Streams and Wetlands to Downstream Waters. Journal of the American Water Resources Association, 2018, 54, 287-297.	1.0	30

#	ARTICLE	IF	CITATIONS
19	Physical and Chemical Connectivity of Streams and Riparian Wetlands to Downstream Waters: A Synthesis. Journal of the American Water Resources Association, 2018, 54, 323-345.	1.0	53
20	Hydrological, Physical, and Chemical Functions and Connectivity of Nonâ€Floodplain Wetlands to Downstream Waters: A Review. Journal of the American Water Resources Association, 2018, 54, 346-371.	1.0	86
21	Biota Connect Aquatic Habitats throughout Freshwater Ecosystem Mosaics. Journal of the American Water Resources Association, 2018, 54, 372-399.	1.0	45
22	Depressional wetlands affect watershed hydrological, biogeochemical, and ecological functions. Ecological Applications, 2018, 28, 953-966.	1.8	91
23	Estimating restorable wetland water storage at landscape scales. Hydrological Processes, 2018, 32, 305-313.	1.1	44
24	A watershed-scale model for depressional wetland-rich landscapes. Journal of Hydrology X, 2018, 1, 100002.	0.8	31
25	Hydrologic model predictability improves with spatially explicit calibration using remotely sensed evapotranspiration and biophysical parameters. Journal of Hydrology, 2018, 567, 668-683.	2.3	86
26	Wetlands inform how climate extremes influence surface water expansion and contraction. Hydrology and Earth System Sciences, 2018, 22, 1851-1873.	1.9	16
27	Decision-Tree, Rule-Based, and Random Forest Classification of High-Resolution Multispectral Imagery for Wetland Mapping and Inventory. Remote Sensing, 2018, 10, 580.	1.8	149
28	Comparing Pixel- and Object-Based Approaches in Effectively Classifying Wetland-Dominated Landscapes. Remote Sensing, 2018, 10, 46.	1.8	38
29	The Significant Surface-Water Connectivity of â€œGeographically Isolated Wetlandsâ€. Wetlands, 2017, 37, 801-806.	0.7	23
30	Enhancing protection for vulnerable waters. Nature Geoscience, 2017, 10, 809-815.	5.4	141
31	Integrating geographically isolated wetlands into land management decisions. Frontiers in Ecology and the Environment, 2017, 15, 319-327.	1.9	92
32	Delineating wetland catchments and modeling hydrologic connectivity using lidar data and aerial imagery. Hydrology and Earth System Sciences, 2017, 21, 3579-3595.	1.9	70
33	An improved representation of geographically isolated wetlands in a watershedâ€scale hydrologic model. Hydrological Processes, 2016, 30, 4168-4184.	1.1	80
34	Relative effects of geographically isolated wetlands on streamflow: a watershedâ€scale analysis. Ecohydrology, 2016, 9, 21-38.	1.1	72
35	Boosted Regression Tree Models to Explain Watershed Nutrient Concentrations and Biological Condition. Journal of the American Water Resources Association, 2016, 52, 1251-1274.	1.0	23
36	Identification of Putative Geographically Isolated Wetlands of the Conterminous United States. Journal of the American Water Resources Association, 2016, 52, 705-722.	1.0	47

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37	Delineation and Quantification of Wetland Depressions in the Prairie Pothole Region of North Dakota. Wetlands, 2016, 36, 215-227.	0.7	58
38	Do geographically isolated wetlands influence landscape functions?. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1978-1986.	3.3	297
39	Classification and inventory of freshwater wetlands and aquatic habitats in the Selenga River Delta of Lake Baikal, Russia, using high-resolution satellite imagery. Wetlands Ecology and Management, 2015, 23, 195-214.	0.7	13
40	Denitrification Potential in Geographically Isolated Wetlands of North Carolina and Florida, USA. Wetlands, 2015, 35, 459-471.	0.7	14
41	Geographically Isolated Wetlands are Important Biogeochemical Reactors on the Landscape. BioScience, 2015, 65, 408-418.	2.2	163
42	Geographically isolated wetlands and watershed hydrology: A modified model analysis. Journal of Hydrology, 2015, 529, 240-256.	2.3	82
43	Geographically Isolated Wetlands: Rethinking a Misnomer. Wetlands, 2015, 35, 423-431.	0.7	87
44	Improved Wetland Classification Using Eight-Band High Resolution Satellite Imagery and a Hybrid Approach. Remote Sensing, 2014, 6, 12187-12216.	1.8	65
45	An Effective Method for Detecting Potential Woodland Vernal Pools Using High-Resolution LiDAR Data and Aerial Imagery. Remote Sensing, 2014, 6, 11444-11467.	1.8	42
46	Hydrologic connectivity between geographically isolated wetlands and surface water systems: A review of select modeling methods. Environmental Modelling and Software, 2014, 53, 190-206.	1.9	137
47	Multi-temporal Sub-pixel Landsat ETM+ Classification of Isolated Wetlands in Cuyahoga County, Ohio, USA. Wetlands, 2012, 32, 289-299.	0.7	39
48	Calculating the Ecosystem Service of Water Storage in Isolated Wetlands using LiDAR in North Central Florida, USA. Wetlands, 2010, 30, 967-977.	0.7	80
49	Characteristic community structure of Florida's subtropical wetlands: the Florida wetland condition index for depressional marshes, depressional forested, and flowing water forested wetlands. Wetlands Ecology and Management, 2010, 18, 543-556.	0.7	19
50	Satellite remote sensing of isolated wetlands using object-oriented classification of Landsat-7 data. Wetlands, 2009, 29, 931-941.	0.7	84
51	Benthic diatom composition in isolated forested wetlands subject to drying: Implications for monitoring and assessment. Ecological Indicators, 2009, 9, 1121-1128.	2.6	11
52	Mapping Isolated Wetlands in a Karst Landscape: GIS and Remote Sensing Methods. GIScience and Remote Sensing, 2009, 46, 187-211.	2.4	34
53	Diatoms as indicators of isolated herbaceous wetland condition in Florida, USA. Ecological Indicators, 2007, 7, 521-540.	2.6	65
54	Effect of sampling method on diatom composition for use in monitoring and assessing large river condition. River Research and Applications, 2007, 23, 1126-1146.	0.7	11

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55	Assessment of Isolated Wetland Condition in Florida Using Epiphytic Diatoms at Genus, Species, and Subspecies Taxonomic Resolution. EcoHealth, 2007, 4, 219-230.	0.9	17
56	Energy-Based Land Use Predictors of Proximal Factors and Benthic Diatom Composition in Florida Freshwater Marshes. Environmental Monitoring and Assessment, 2006, 117, 433-450.	1.3	11
57	Vegetation based classification trees for rapid assessment of isolated wetland condition. Ecological Indicators, 2005, 5, 189-206.	2.6	25
58	FLORISTIC QUALITY INDICES FOR BIOTIC ASSESSMENT OF DEPRESSIONAL MARSH CONDITION IN FLORIDA. , 2004, 14, 784-794.		104