

Charles R Lane

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

5,332
citations

101496

36
h-index

106281

65
g-index

76
all docs

76
docs citations

76
times ranked

3557
citing authors

#	ARTICLE	IF	CITATIONS
1	Noncommutative Field Theory and Lorentz Violation. <i>Physical Review Letters</i> , 2001, 87, 141601.	2.9	764
2	Constraints on Lorentz violation from clock-comparison experiments. <i>Physical Review D</i> , 1999, 60, .	1.6	324
3	Do geographically isolated wetlands influence landscape functions?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1978-1986.	3.3	297
4	Limit on Lorentz and CPT Violation of the Neutron Using a Two-Species Noble-Gas Maser. <i>Physical Review Letters</i> , 2000, 85, 5038-5041.	2.9	261
5	One-loop renormalization of Lorentz-violating electrodynamics. <i>Physical Review D</i> , 2002, 65, .	1.6	211
6	CPT and Lorentz Tests with Muons. <i>Physical Review Letters</i> , 2000, 84, 1098-1101.	2.9	206
7	Clock-Comparison Tests of Lorentz and CPT Symmetry in Space. <i>Physical Review Letters</i> , 2002, 88, 090801.	2.9	206
8	Nonrelativistic quantum Hamiltonian for Lorentz violation. <i>Journal of Mathematical Physics</i> , 1999, 40, 6245-6253.	0.5	193
9	Geographically Isolated Wetlands are Important Biogeochemical Reactors on the Landscape. <i>BioScience</i> , 2015, 65, 408-418.	2.2	163
10	Probing Lorentz and CPT violation with space-based experiments. <i>Physical Review D</i> , 2003, 68, .	1.6	154
11	Decision-Tree, Rule-Based, and Random Forest Classification of High-Resolution Multispectral Imagery for Wetland Mapping and Inventory. <i>Remote Sensing</i> , 2018, 10, 580.	1.8	149
12	Enhancing protection for vulnerable waters. <i>Nature Geoscience</i> , 2017, 10, 809-815.	5.4	141
13	Hydrologic connectivity between geographically isolated wetlands and surface water systems: A review of select modeling methods. <i>Environmental Modelling and Software</i> , 2014, 53, 190-206.	1.9	137
14	Integrating LiDAR data and multi-temporal aerial imagery to map wetland inundation dynamics using Google Earth Engine. <i>Remote Sensing of Environment</i> , 2019, 228, 1-13.	4.6	108
15	FLORISTIC QUALITY INDICES FOR BIOTIC ASSESSMENT OF DEPRESSIONAL MARSH CONDITION IN FLORIDA. , 2004, 14, 784-794.		104
16	Integrating geographically isolated wetlands into land management decisions. <i>Frontiers in Ecology and the Environment</i> , 2017, 15, 319-327.	1.9	92
17	Depressional wetlands affect watershed hydrological, biogeochemical, and ecological functions. <i>Ecological Applications</i> , 2018, 28, 953-966.	1.8	91
18	Geographically Isolated Wetlands: Rethinking a Misnomer. <i>Wetlands</i> , 2015, 35, 423-431.	0.7	87

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19	Hydrological, Physical, and Chemical Functions and Connectivity of Non-Floodplain Wetlands to Downstream Waters: A Review. <i>Journal of the American Water Resources Association</i> , 2018, 54, 346-371.	1.0	86
20	Satellite remote sensing of isolated wetlands using object-oriented classification of Landsat-7 data. <i>Wetlands</i> , 2009, 29, 931-941.	0.7	84
21	Geographically isolated wetlands and watershed hydrology: A modified model analysis. <i>Journal of Hydrology</i> , 2015, 529, 240-256.	2.3	82
22	Calculating the Ecosystem Service of Water Storage in Isolated Wetlands using LiDAR in North Central Florida, USA. <i>Wetlands</i> , 2010, 30, 967-977.	0.7	80
23	An improved representation of geographically isolated wetlands in a watershed-scale hydrologic model. <i>Hydrological Processes</i> , 2016, 30, 4168-4184.	1.1	80
24	Relative effects of geographically isolated wetlands on streamflow: a watershed-scale analysis. <i>Ecohydrology</i> , 2016, 9, 21-38.	1.1	72
25	Delineating wetland catchments and modeling hydrologic connectivity using lidar data and aerial imagery. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 3579-3595.	1.9	70
26	Diatoms as indicators of isolated herbaceous wetland condition in Florida, USA. <i>Ecological Indicators</i> , 2007, 7, 521-540.	2.6	65
27	Improved Wetland Classification Using Eight-Band High Resolution Satellite Imagery and a Hybrid Approach. <i>Remote Sensing</i> , 2014, 6, 12187-12216.	1.8	65
28	Probing Lorentz violation with Doppler-shift experiments. <i>Physical Review D</i> , 2005, 72, .	1.6	58
29	Delineation and Quantification of Wetland Depressions in the Prairie Pothole Region of North Dakota. <i>Wetlands</i> , 2016, 36, 215-227.	0.7	58
30	Physical and Chemical Connectivity of Streams and Riparian Wetlands to Downstream Waters: A Synthesis. <i>Journal of the American Water Resources Association</i> , 2018, 54, 323-345.	1.0	53
31	Identification of Putative Geographically Isolated Wetlands of the Conterminous United States. <i>Journal of the American Water Resources Association</i> , 2016, 52, 705-722.	1.0	47
32	Biota Connect Aquatic Habitats throughout Freshwater Ecosystem Mosaics. <i>Journal of the American Water Resources Association</i> , 2018, 54, 372-399.	1.0	45
33	Non-floodplain Wetlands Affect Watershed Nutrient Dynamics: A Critical Review. <i>Environmental Science & Technology</i> , 2019, 53, 7203-7214.	4.6	45
34	Surface Depression and Wetland Water Storage Improves Major River Basin Hydrologic Predictions. <i>Water Resources Research</i> , 2020, 56, e2019WR026561.	1.7	45
35	Estimating restorable wetland water storage at landscape scales. <i>Hydrological Processes</i> , 2018, 32, 305-313.	1.1	44
36	An Effective Method for Detecting Potential Woodland Vernal Pools Using High-Resolution LiDAR Data and Aerial Imagery. <i>Remote Sensing</i> , 2014, 6, 11444-11467.	1.8	42

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37	Multi-temporal Sub-pixel Landsat ETM+ Classification of Isolated Wetlands in Cuyahoga County, Ohio, USA. <i>Wetlands</i> , 2012, 32, 289-299.	0.7	39
38	Comparing Pixel- and Object-Based Approaches in Effectively Classifying Wetland-Dominated Landscapes. <i>Remote Sensing</i> , 2018, 10, 46.	1.8	38
39	Mapping Isolated Wetlands in a Karst Landscape: GIS and Remote Sensing Methods. <i>GIScience and Remote Sensing</i> , 2009, 46, 187-211.	2.4	34
40	Featured Collection Introduction: Connectivity of Streams and Wetlands to Downstream Waters. <i>Journal of the American Water Resources Association</i> , 2018, 54, 287-297.	1.0	30
41	Watershed Modeling with Remotely Sensed Big Data: MODIS Leaf Area Index Improves Hydrology and Water Quality Predictions. <i>Remote Sensing</i> , 2020, 12, 2148.	1.8	29
42	Modeling Connectivity of Non-floodplain Wetlands: Insights, Approaches, and Recommendations. <i>Journal of the American Water Resources Association</i> , 2019, 55, 559-577.	1.0	26
43	Vegetation based classification trees for rapid assessment of isolated wetland condition. <i>Ecological Indicators</i> , 2005, 5, 189-206.	2.6	25
44	Boosted Regression Tree Models to Explain Watershed Nutrient Concentrations and Biological Condition. <i>Journal of the American Water Resources Association</i> , 2016, 52, 1251-1274.	1.0	23
45	The Significant Surface-Water Connectivity of Geographically Isolated Wetlands. <i>Wetlands</i> , 2017, 37, 801-806.	0.7	23
46	Vulnerable Waters are Essential to Watershed Resilience. <i>Ecosystems</i> , 2023, 26, 1-28.	1.6	21
47	A Hydrologic Landscapes Perspective on Groundwater Connectivity of Depressional Wetlands. <i>Water (Switzerland)</i> , 2020, 12, 50.	1.2	20
48	Characteristic community structure of Florida's subtropical wetlands: the Florida wetland condition index for depressional marshes, depressional forested, and flowing water forested wetlands. <i>Wetlands Ecology and Management</i> , 2010, 18, 543-556.	0.7	19
49	Assessment of Isolated Wetland Condition in Florida Using Epiphytic Diatoms at Genus, Species, and Subspecies Taxonomic Resolution. <i>EcoHealth</i> , 2007, 4, 219-230.	0.9	17
50	The potential role of very high-resolution imagery to characterise lake, wetland and stream systems across the Prairie Pothole Region, United States. <i>International Journal of Remote Sensing</i> , 2019, 40, 5768-5798.	1.3	17
51	Wetlands inform how climate extremes influence surface water expansion and contraction. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1851-1873.	1.9	16
52	Improving global flood and drought predictions: integrating non-floodplain wetlands into watershed hydrologic models. <i>Environmental Research Letters</i> , 2021, 16, 091002.	2.2	15
53	Denitrification Potential in Geographically Isolated Wetlands of North Carolina and Florida, USA. <i>Wetlands</i> , 2015, 35, 459-471.	0.7	14
54	Classification and inventory of freshwater wetlands and aquatic habitats in the Selenga River Delta of Lake Baikal, Russia, using high-resolution satellite imagery. <i>Wetlands Ecology and Management</i> , 2015, 23, 195-214.	0.7	13

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55	Land-Cover Changes to Surface-Water Buffers in the Midwestern USA: 25 Years of Landsat Data Analyses (1993–2017). <i>Remote Sensing</i> , 2020, 12, 754.	1.8	13
56	Wetland restoration yields dynamic nitrate responses across the Upper Mississippi river basin. <i>Environmental Research Communications</i> , 2021, 3, 095002.	0.9	13
57	Relating Noncommutative $SO(2,3)$ Gravity to the Lorentz-Violating Standard-Model Extension. <i>Symmetry</i> , 2018, 10, 480.	1.1	12
58	Energy-Based Land Use Predictors of Proximal Factors and Benthic Diatom Composition in Florida Freshwater Marshes. <i>Environmental Monitoring and Assessment</i> , 2006, 117, 433-450.	1.3	11
59	Effect of sampling method on diatom composition for use in monitoring and assessing large river condition. <i>River Research and Applications</i> , 2007, 23, 1126-1146.	0.7	11
60	Benthic diatom composition in isolated forested wetlands subject to drying: Implications for monitoring and assessment. <i>Ecological Indicators</i> , 2009, 9, 1121-1128.	2.6	11
61	Spacetime variation of Lorentz-violation coefficients at a nonrelativistic scale. <i>Physical Review D</i> , 2016, 94, .	1.6	10
62	Wetland Flowpaths Mediate Nitrogen and Phosphorus Concentrations across the Upper Mississippi River Basin. <i>Journal of the American Water Resources Association</i> , 2023, 59, 1162-1179.	1.0	9
63	Using Comparisons of Clock Frequencies and Sidereal Variation to Probe Lorentz Violation. <i>Symmetry</i> , 2017, 9, 245.	1.1	4
64	Lorentz Violation at the Level of Undergraduate Classical Mechanics. <i>Symmetry</i> , 2020, 12, 1734.	1.1	4
65	SenseCube—a novel inexpensive wireless multisensor for physics lab experimentations. <i>Physics Education</i> , 2018, 53, 045016.	0.3	2
66	Crossroad Blues: An Intersection of Rivers, Wetlands, and Public Policy. <i>Fisheries</i> , 2011, 36, 337-339.	0.6	1
67	Noncommutative Gravity and the Standard-Model Extension. , 2020, , .		1
68	AN SME ANALYSIS OF DOPPLER-EFFECT EXPERIMENTS. , 2005, , .		0
69	DOPPLER-EFFECT EXPERIMENTS AND LORENTZ VIOLATION. , 2008, , .		0
70	Spacetime Variation of Lorentz-Violation Coefficients at Nonrelativistic Scale. , 2017, , .		0