Alan T Herlihy

List of Publications by Year
in descending order

128 papers	7,308 citations	46918 47 h-index	64668 79 g-index
131 all docs	131 docs citations	131 times ranked	4711 citing authors

#	Article	IF	Citations
1	<scp>Longitudinal patterns</scp> in riverine ecology within and among seven Pacific Northwest rivers: Implications for river research, monitoring and management. River Research and Applications, 2022, 38, 548-560.	0.7	2
2	Genus-level, trait-based multimetric diatom indices for assessing the ecological condition of rivers and streams across the conterminous United States. Ecological Indicators, 2022, 141, 109131.	2.6	9
3	Sampling efforts for estimating fish species richness in western USA river sites. Limnologica, 2021, 87, 125859.	0.7	17
4	National framework for ranking lakes by potential for anthropogenic hydro-alteration. Ecological Indicators, 2021, 122, 107241.	2.6	6
5	Context is Everything: Interacting Inputs and Landscape Characteristics Control Stream Nitrogen. Environmental Science & Technology, 2021, 55, 7890-7899.	4.6	22
6	Î´15N of Chironomidae: An index of nitrogen sources and processing within watersheds for national aquatic monitoring programs. Science of the Total Environment, 2021, 813, 151867.	3.9	2
7	A Complete Fisheries Inventory of the Chulitna River Basin, Lake Clark National Park and Preserve, Alaska: Example of a Minimally Disturbed Basin. Transactions of the American Fisheries Society, 2020, 149, 14-26.	0.6	4
8	The relation of lotic fish and benthic macroinvertebrate condition indices to environmental factors across the conterminous USA. Ecological Indicators, 2020, 112, 105958.	2.6	57
9	Lake Water Levels and Associated Hydrologic Characteristics in the Conterminous U.S.. Journal of the American Water Resources Association, 2020, 56, 450-471.	1.0	11
10	Assessing the relative and attributable risk of stressors to wetland condition across the conterminous United States. Environmental Monitoring and Assessment, 2019, 191, 320.	1.3	14
11	The response of wetland quality indicators to human disturbance indicators across the United States. Environmental Monitoring and Assessment, 2019, 191, 296.	1.3	11
12	Quantifying the extent of human disturbance activities and anthropogenic stressors in wetlands across the conterminous United States: results from the National Wetland Condition Assessment. Environmental Monitoring and Assessment, 2019, 191, 324.	1.3	29
13	Characterizing nonnative plants in wetlands across the conterminous United States. Environmental Monitoring and Assessment, 2019, 191, 344.	1.3	10
14	USA-scale patterns in wetland water quality as determined from the 2011 National Wetland Condition Assessment. Environmental Monitoring and Assessment, 2019, 191, 266.	1.3	10
15	Striving for consistency in the National Wetland Condition Assessment: developing a reference condition approach for assessing wetlands at a continental scale. Environmental Monitoring and Assessment, 2019, 191, 327.	1.3	20
16	Use of national-scale data to examine human-mediated additions of heavy metals to wetland soils of the US. Environmental Monitoring and Assessment, 2019, 191, 336.	1.3	21
17	Transition Plan. Brain & Life, 2019, 15, 32-35.	0.0	0
18	Assessing the extent and relative risk of aquatic stressors on stream macroinvertebrate assemblages in the neotropical savanna. Science of the Total Environment, 2018, 633, 179-188.	3.9	40

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19	Microbial ecoenzyme stoichiometry, nutrient limitation, and organic matter decomposition in wetlands of the conterminous United States. Wetlands Ecology and Management, 2018, 26, 425-439.	0.7	26
20	An improved macroinvertebrate multimetric index for the assessment of wadeable streams in the neotropical savanna. Ecological Indicators, 2017, 81, 514-525.	2.6	72
21	A synoptic survey of microbial respiration, organic matter decomposition, and carbon efflux in U.S. streams and rivers. Limnology and Oceanography, 2017, 62, S147-S159.	1.6	11
22	Seasonal and spatial fluctuations in Oncorhynchus trout diet in a temperate mixed-forest watershed. Canadian Journal of Fisheries and Aquatic Sciences, 2016, 73, 1642-1649.	0.7	21
23	Continental-Scale Increase in Lake and Stream Phosphorus: Are Oligotrophic Systems Disappearing in the United States?. Environmental Science & Technology, 2016, 50, 3409-3415.	4.6	187
24	Predicting aquatic vertebrate assemblages from environmental variables at three multistate geographic extents of the western USA. Ecological Indicators, 2015, 57, 546-556.	2.6	11
25	Comment on Bachmann et al. (2013): A nonrepresentative sample cannot describe the extent of cultural eutrophication of natural lakes in the United States. Limnology and Oceanography, 2014, 59, 2226-2230.	1.6	11
26	Valuing tradeoffs between agricultural production and wetland condition in the U.S. Mid-Atlantic region. Ecological Economics, 2014, 105, 284-291.	2.9	23
27	Effects of Grass Seed Agriculture on Aquatic Invertebrate Communities Inhabiting Seasonal Wetlands of the Southern Willamette Valley, Oregon. Wetlands, 2013, 33, 921-937.	0.7	7
28	Using multiple approaches to develop nutrient criteria for lakes in the conterminous USA. Freshwater Science, 2013, 32, 367-384.	0.9	31
29	An a priori process for selecting candidate reference lakes for a national survey. Freshwater Science, 2013, 32, 385-396.	0.9	17
30	Large-scale macroinvertebrate assemblage patterns from least-disturbed wadeable stream sites across the 48 contiguous US states. Knowledge and Management of Aquatic Ecosystems, 2013, , 02.	0.5	3
31	Patterns in Catch Per Unit Effort of Native Prey Fish and Alien Piscivorous Fish in 7 Pacific Northwest USA Rivers. Fisheries, 2012, 37, 201-211.	0.6	31
32	Target loads of atmospheric sulfur and nitrogen deposition for protection of acid sensitive aquatic resources in the Adirondack Mountains, New York. Water Resources Research, 2012, 48, .	1.7	18
33	Ecological effects of nitrogen and sulfur air pollution in the US: what do we know?. Frontiers in Ecology and the Environment, 2012, 10, 365-372.	1.9	157
34	Estimating vertebrate, benthic macroinvertebrate, and diatom taxa richness in raftable Pacific Northwest rivers for bioassessment purposes. Environmental Monitoring and Assessment, 2012, 184, 3185-3198.	1.3	25
35	Non-wadeable river bioassessment: spatial variation of benthic diatom assemblages in Pacific Northwest rivers, USA. Hydrobiologia, 2012, 684, 241-260.	1.0	11
36	Laboratory Analyses. , 2012, , 694-699.		0

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37	A Synoptic Survey of Nitrogen and Phosphorus in Tributary Streams and Great Rivers of the Upper Mississippi, Missouri, and Ohio River Basins. Water, Air, and Soil Pollution, 2011, 216, 605-619.	1.1	16
38	Acidification and Prognosis for Future Recovery of Acid-Sensitive Streams in the Southern Blue Ridge Province. Water, Air, and Soil Pollution, 2011, 219, 11-26.	1.1	14
39	Calibration of the Delaware Rapid Assessment Protocol to a Comprehensive Measure of Wetland Condition. Wetlands, 2010, 30, 1011-1022.	0.7	19
40	Performance-based environmental index weights: Are all metrics created equal?. Ecological Economics, 2010, 69, 1043-1050.	2.9	23
41	An Evaluation of Qualitative Indexes of Physical Habitat Applied to Agricultural Streams in Ten U.S. States¹. Journal of the American Water Resources Association, 2010, 46, 792-806.	1.0	36
42	Developing an index of wetland condition from ecological data: An example using HGM functional variables from the Nanticoke watershed, USA. Ecological Indicators, 2010, 10, 703-712.	2.6	21
43	An economic approach to environmental indices. Ecological Economics, 2009, 68, 2216-2223.	2.9	33
44	The relative influence of geographic location and reach-scale habitat on benthic invertebrate assemblages in six ecoregions. Environmental Monitoring and Assessment, 2009, 154, 1-14.	1.3	22
45	An Approach for Evaluating the Repeatability of Rapid Wetland Assessment Methods: The Effects of Training and Experience. Environmental Management, 2009, 44, 369-377.	1.2	7
46	Influence of Rare Species on Electrofishing Distance When Estimating Species Richness of Stream and River Reaches. Transactions of the American Fisheries Society, 2009, 138, 1240-1251.	0.6	43
47	Downstream variation in bankfull width of wadeable streams across the conterminous United States. Geomorphology, 2009, 108, 292-311.	1.1	56
48	Assessing Stream Ecosystem Condition in the United States. Eos, 2009, 90, 309-310.	0.1	7
49	A calcium-based invasion risk assessment for zebra and quagga mussels (Dreissena spp). Frontiers in Ecology and the Environment, 2008, 6, 180-184.	1.9	79
50	A process for creating multimetric indices for large-scale aquatic surveys. Journal of the North American Benthological Society, 2008, 27, 878-891.	3.0	337
51	Algaeâ€“P relationships, thresholds, and frequency distributions guide nutrient criterion development. Journal of the North American Benthological Society, 2008, 27, 783-799.	3.0	96
52	Bioassessments to Detect Changes in Pacific Northwest River Fish Assemblages: A Malheur River Case Study. Northwest Science, 2008, 82, 251-258.	0.1	9
53	Developing nutrient criteria and classification schemes for wadeable streams in the conterminous US. Journal of the North American Benthological Society, 2008, 27, 932-948.	3.0	56
54	Summer Distribution and Species Richness of Non-native Fishes in the Mainstem Willamette River, Oregon, 1944â€“2006. Northwest Science, 2008, 82, 83-93.	0.1	18

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55	Development of diatom indicators of ecological conditions for streams of the western US. Journal of the North American Benthological Society, 2008, 27, 1000-1016.	3.0	87
56	Condition of stream ecosystems in the US: an overview of the first national assessment. Journal of the North American Benthological Society, 2008, 27, 812-821.	3.0	164
57	Striving for consistency in a national assessment: the challenges of applying a reference-condition approach at a continental scale. Journal of the North American Benthological Society, 2008, 27, 860-877.	3.0	184
58	Electrofishing Distance Needed to Estimate Consistent Index of Biotic Integrity (IBI) Scores in Raftable Oregon Rivers. Transactions of the American Fisheries Society, 2007, 136, 135-141.	0.6	33
59	Selecting reference sites for stream biological assessments: best professional judgment or objective criteria. Journal of the North American Benthological Society, 2007, 26, 349-360.	3.0	109
60	Influence of clearcut logging, flow duration, and season on emergent aquatic insects in headwater streams of the Central Oregon Coast Range. Journal of the North American Benthological Society, 2007, 26, 620-632.	3.0	33
61	Electrofishing Effort Required to Estimate Biotic Condition in Southern Idaho Rivers. North American Journal of Fisheries Management, 2007, 27, 1041-1052.	0.5	16
62	Anthropogenically Driven Changes in Chloride Complicate Interpretation of Base Cation Trends in Lakes Recovering from Acidic Deposition. Environmental Science & Technology, 2007, 41, 7688-7693.	4.6	30
63	Mercury Concentration in Fish from Streams and Rivers Throughout the Western United States. Environmental Science & Technology, 2007, 41, 58-65.	4.6	107
64	A Structured Approach for Developing Indices of Biotic Integrity: Three Examples from Streams and Rivers in the Western USA. Transactions of the American Fisheries Society, 2007, 136, 718-735.	0.6	143
65	Spatial Distribution of Acid-sensitive and Acid-impacted Streams in Relation to Watershed Features in the Southern Appalachian Mountains. Water, Air, and Soil Pollution, 2007, 182, 57-71.	1.1	43
66	Assessment of the Extent to Which Intensively-studied Lakes are Representative of the Adirondack Region and Response to Future Changes in Acidic Deposition. Water, Air, and Soil Pollution, 2007, 185, 279-291.	1.1	12
67	Isomorphic chain graphs for modeling spatial dependence in ecological data. Environmental and Ecological Statistics, 2007, 14, 27-40.	1.9	5
68	Effect of sampling different habitat types in regional macroinvertebrate bioassessment surveys. Journal of the North American Benthological Society, 2006, 25, 501-512.	3.0	63
69	Acid-base Characteristics of Soils in the Adirondack Mountains, New York. Soil Science Society of America Journal, 2006, 70, 141-152.	1.2	57
70	Macroinvertebrate community response to natural and forest harvest gradients in western Oregon headwater streams. Freshwater Biology, 2005, 50, 905-919.	1.2	50
71	Comparative application of indices of biotic integrity based on periphyton, macroinvertebrates, and fish to southern Rocky Mountain streams. Ecological Indicators, 2005, 5, 117-136.	2.6	116
72	A null model for the expected macroinvertebrate assemblage in streams. Journal of the North American Benthological Society, 2005, 24, 178-191.	3.0	79

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73	The effects of macroinvertebrate taxonomic resolution in large landscape bioassessments: an example from the Mid-Atlantic Highlands, U.S.A.. Freshwater Biology, 2004, 49, 474-489.	1.2	97
74	Linkages among land-use, water quality, physical habitat conditions and lotic diatom assemblages: A multi-spatial scale assessment. Hydrobiologia, 2004, 515, 59-73.	1.0	80
75	RELATIONSHIPS AMONG EXCEEDENCES OF METALS CRITERIA, THE RESULTS OF AMBIENT BIOASSAYS, AND COMMUNITY METRICS IN MINING-IMPACTED STREAMS. Environmental Toxicology and Chemistry, 2004, 23, 1786.	2.2	20
76	Regionalization of disturbance-induced nitrogen leakage from mid-Appalachian forests using a linear systems model. Hydrological Processes, 2004, 18, 2713-2725.	1.1	12
77	Peer Reviewed: Have U.S. Surface Waters Responded to the 1990 Clean Air Act Amendments?. Environmental Science & Technology, 2004, 38, 484A-490A.	4.6	95
78	Regional model projections of future effects of sulfur and nitrogen deposition on streams in the southern Appalachian Mountains. Water Resources Research, 2004, 40, .	1.7	41
79	PROJECTING THE BIOLOGICAL CONDITION OF STREAMS UNDER ALTERNATIVE SCENARIOS OF HUMAN LAND USE. , 2004, 14, 368-380.		106
80	Development and Evaluation of a Macroinvertebrate Biotic Integrity Index (MBII) for Regionally Assessing Mid-Atlantic Highlands Streams. Environmental Management, 2003, 31, 656-669.	1.2	176
81	Contamination of fish in streams of the Midâ€Atlantic Region: An approach to regional indicator selection and wildlife assessment. Environmental Toxicology and Chemistry, 2003, 22, 545-553.	2.2	47
82	Assessment of streams of the eastern United States using a periphyton index of biotic integrity. Ecological Indicators, 2003, 2, 325-338.	2.6	95
83	Electrofishing Effort Requirements for Assessing Species Richness and Biotic Integrity in Western Oregon Streams. North American Journal of Fisheries Management, 2003, 23, 450-461.	0.5	94
84	Contamination of fish in streams of the Mid-Atlantic Region: An approach to regional indicator selection and wildlife assessment. , 2003, 22, 545.		2
85	Indicators of Ecological Stress and Their Extent in the Population of Northeastern Lakes: A Regional-Scale Assessment. BioScience, 2002, 52, 235.	2.2	51
86	Electrofishing Distance Needed to Estimate Fish Species Richness in Raftable Oregon Rivers. North American Journal of Fisheries Management, 2002, 22, 1229-1240.	0.5	75
87	Level and extent of mercury contamination in Oregon, USA, lotic fish. Environmental Toxicology and Chemistry, 2002, 21, 2157-2164.	2.2	19
88	MULTIVARIATE ANALYSIS OF PERIPHYTON ASSEMBLAGES IN RELATION TO ENVIRONMENTAL GRADIENTS IN COLORADO ROCKY MOUNTAIN STREAMS1. Journal of Phycology, 2002, 38, 83-95.	1.0	48
89	Benthic microbial respiration in Appalachian Mountain, Piedmont, and Coastal Plains streams of the eastern U.S.A.. Freshwater Biology, 2002, 47, 185-194.	1.2	37
90	Methods development and use of macroinvertebrates as indicators of ecological conditions for streams in the Mid-Atlantic Highlands Region. Environmental Monitoring and Assessment, 2002, 78, 169-212.	1.3	63

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91	Level and extent of mercury contamination in Oregon, USA, lotic fish. , 2002, 21, 2157.		6
92	ANALYSIS OF MACROINVERTEBRATE ASSEMBLAGES IN RELATION TO ENVIRONMENTAL GRADIENTS IN ROCKY MOUNTAIN STREAMS. , 2001, 11, 489-505.		48
93	Variability in stream macroinvertebrates at multiple spatial scales. Freshwater Biology, 2001, 46, 87-97.	1.2	111
94	Comparison of correlations between environmental characteristics and stream diatom assemblages characterized at genus and species levels. Journal of the North American Benthological Society, 2001, 20, 299-310.	3.0	95
95	Development of an Index of Biotic Integrity for the Mid-Atlantic Highlands Region. Transactions of the American Fisheries Society, 2001, 130, 857-877.	0.6	165
96	Variability in stream macroinvertebrates at multiple spatial scales. , 2001, 46, 87.		86
97	Interregional comparisons of sediment microbial respiration in streams. Freshwater Biology, 2000, 44, 213-222.	1.2	55
98	Effects of Disturbance on Nitrogen Export from Forested Lands of the Chesapeake Bay Watershed. Environmental Monitoring and Assessment, 2000, 63, 187-197.	1.3	10
99	Title is missing!. Environmental Monitoring and Assessment, 2000, 63, 95-113.	1.3	133
100	Use of periphyton assemblage data as an index of biotic integrity. Journal of the North American Benthological Society, 2000, 19, 50-67.	3.0	232
101	Comparing strengths of geographic and nongeographic classifications of stream benthic macroinvertebrates in the Mid-Atlantic Highlands, USA. Journal of the North American Benthological Society, 2000, 19, 429-441.	3.0	94
102	Ecoregions and benthic diatom assemblages in Mid-Atlantic Highlands streams, USA. Journal of the North American Benthological Society, 2000, 19, 518-540.	3.0	92
103	SPATIAL PATTERNS AND ECOLOGICAL DETERMINANTS OF BENTHIC ALGAL ASSEMBLAGES IN MID-ATLANTIC STREAMS, USA. Journal of Phycology, 1999, 35, 460-468.	1.0	132
104	Concordance of taxonomic composition patterns across multiple lake assemblages: effects of scale, body size, and land use. Canadian Journal of Fisheries and Aquatic Sciences, 1999, 56, 2029-2040.	0.7	128
105	Concordance of taxonomic richness patterns across multiple assemblages in lakes of the northeastern United States. Canadian Journal of Fisheries and Aquatic Sciences, 1999, 56, 739-747.	0.7	95
106	Title is missing!. Water, Air, and Soil Pollution, 1998, 105, 377-386.	1.1	159
107	A process for developing and evaluating indices of fish assemblage integrity. Canadian Journal of Fisheries and Aquatic Sciences, 1998, 55, 1618-1631.	0.7	268
108	The Dilemma of Sampling Streams for Macroinvertebrate Richness. Journal of the North American Benthological Society, 1998, 17, 359-366.	3.0	35

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109	The Relationship between Stream Chemistry and Watershed Land Cover Data in the Mid-Atlantic Region, U.S.. , 1998, , 377-386.		33
110	Using Diatoms as Indicators of Ecological Conditions in Lotic Systems: A Regional Assessment. Journal of the North American Benthological Society, 1996, 15, 481-495.	3.0	236
111	Climatic forcing on zooplankton richness in lakes of the northeastern United States. Limnology and Oceanography, 1996, 41, 1093-1101.	1.6	38
112	Regional Susceptibility of Northeast Lakes to Zebra Mussel Invasion. Fisheries, 1995, 20, 20-27.	0.6	14
113	The effects of acidic deposition on streams in the Appalachian Mountain and Piedmont Region of the Mid-Atlantic United States. Water Resources Research, 1993, 29, 2687-2703.	1.7	74
114	Sources of acidity in lakes and streams of the United States. Environmental Pollution, 1992, 77, 115-122.	3.7	22
115	Stream chemistry in the eastern United States: 1. Synoptic survey design, acid-base status, and regional patterns. Water Resources Research, 1991, 27, 611-627.	1.7	62
116	Stream chemistry in the eastern United States: 2. Current sources of acidity in acidic and low acid-neutralizing capacity streams. Water Resources Research, 1991, 27, 629-642.	1.7	42
117	Acidic Lakes and Streams in the United States: The Role of Acidic Deposition. Science, 1991, 252, 1151-1154.	6.0	111
118	Establishment of anaerobic, reducing conditions in lake sediment after deposition of acidic, aerobic sediment by a major storm. Biogeochemistry, 1990, 9, 99-116.	1.7	9
119	Factors controlling the removal of sulfate and acidity from the waters of an acidified lake. Water, Air, and Soil Pollution, 1989, 45, 135-155.	1.1	12
120	Modeling fate and transport of sulfate and alkalinity in an acidified lake. Water, Air, and Soil Pollution, 1988, 37, 157.	1.1	1
121	Ion-chromatographic analysis of mixtures of ferrous and ferric iron. Talanta, 1988, 35, 15-22.	2.9	45
122	Distribution of reduced inorganic sulfur compounds in lake sediments receiving acid mine drainage. Applied Geochemistry, 1988, 3, 333-344.	1.4	23
123	The importance of sediment sulfate reduction to the sulfate budget of an impoundment receiving acid mine drainage. Water Resources Research, 1987, 23, 287-292.	1.7	42
124	The pH regime of sediments underlying acidified waters. Biogeochemistry, 1986, 2, 95-99.	1.7	24
125	Microbial ecology and acidic pollution of impoundments. , 1985, , 169-189.		9
126	Sulfate Reduction in Freshwater Sediments Receiving Acid Mine Drainage. Applied and Environmental Microbiology, 1985, 49, 179-186.	1.4	134

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127	Rivers and Streams: Upgrading Monitoring of the Nationâ€™s Freshwater Resources - Meeting the Spirit of the Clean Water Act. , 0, , .		2
128	Jewels across the Landscape: Monitoring and Assessing the Quality of Lakes and Reservoirs in the United States. , 0, , .		2