

Seth J Wenger

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

4,828
citations

186209

28
h-index

98753

67
g-index

81
all docs

81
docs citations

81
times ranked

6038
citing authors

#	ARTICLE	IF	CITATIONS
1	Flow regime, temperature, and biotic interactions drive differential declines of trout species under climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14175-14180.	3.3	484
2	Impediments and Solutions to Sustainable, Watershed-Scale Urban Stormwater Management: Lessons from Australia and the United States. <i>Environmental Management</i> , 2008, 42, 344-359.	1.2	463
3	Assessing transferability of ecological models: an underappreciated aspect of statistical validation. <i>Methods in Ecology and Evolution</i> , 2012, 3, 260-267.	2.2	439
4	Outstanding Challenges in the Transferability of Ecological Models. <i>Trends in Ecology and Evolution</i> , 2018, 33, 790-802.	4.2	403
5	Twenty-six key research questions in urban stream ecology: an assessment of the state of the science. <i>Journal of the North American Benthological Society</i> , 2009, 28, 1080-1098.	3.0	312
6	ESTIMATING SPECIES OCCURRENCE, ABUNDANCE, AND DETECTION PROBABILITY USING ZERO-INFLATED DISTRIBUTIONS. <i>Ecology</i> , 2008, 89, 2953-2959.	1.5	197
7	The NorWeST Summer Stream Temperature Model and Scenarios for the Western U.S.: A Crowd-Sourced Database and New Geospatial Tools Foster a User Community and Predict Broad Climate Warming of Rivers and Streams. <i>Water Resources Research</i> , 2017, 53, 9181-9205.	1.7	187
8	Slow climate velocities of mountain streams portend their role as refugia for cold-water biodiversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4374-4379.	3.3	182
9	Modelling dendritic ecological networks in space: an integrated network perspective. <i>Ecology Letters</i> , 2013, 16, 707-719.	3.0	180
10	Investigating hydrologic alteration as a mechanism of fish assemblage shifts in urbanizing streams. <i>Journal of the North American Benthological Society</i> , 2005, 24, 656-678.	3.0	157
11	Applications of spatial statistical network models to stream data. <i>Wiley Interdisciplinary Reviews: Water</i> , 2014, 1, 277-294.	2.8	139
12	Macroscale hydrologic modeling of ecologically relevant flow metrics. <i>Water Resources Research</i> , 2010, 46, .	1.7	118
13	Sensitivity of summer stream temperatures to climate variability in the Pacific Northwest. <i>Water Resources Research</i> , 2014, 50, 3428-3443.	1.7	106
14	Stream fish occurrence in response to impervious cover, historic land use, and hydrogeomorphic factors. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2008, 65, 1250-1264.	0.7	90
15	Role of climate and invasive species in structuring trout distributions in the interior Columbia River Basin, USA. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2011, 68, 988-1008.	0.7	87
16	Big biology meets microclimatology: defining thermal niches of ectotherms at landscape scales for conservation planning. <i>Ecological Applications</i> , 2017, 27, 977-990.	1.8	80
17	Trends and sensitivities of low streamflow extremes to discharge timing and magnitude in Pacific Northwest mountain streams. <i>Water Resources Research</i> , 2016, 52, 4990-5007.	1.7	75
18	Probabilistic accounting of uncertainty in forecasts of species distributions under climate change. <i>Global Change Biology</i> , 2013, 19, 3343-3354.	4.2	73

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19	Potential effects of climate change on streambed scour and risks to salmonid survival in snow-dominated mountain basins. <i>Hydrological Processes</i> , 2013, 27, 750-765.	1.1	70
20	Metabolic theory and taxonomic identity predict nutrient recycling in a diverse food web. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2640-7.	3.3	68
21	Classification of Vegetable Oils by FT-IR. <i>Applied Spectroscopy</i> , 1997, 51, 1118-1124.	1.2	62
22	Importance of Riparian Forests in Urban Catchments Contingent on Sediment and Hydrologic Regimes. <i>Environmental Management</i> , 2006, 37, 523-539.	1.2	48
23	Estimation of daily stream water temperatures with a Bayesian regression approach. <i>Hydrological Processes</i> , 2017, 31, 1719-1733.	1.1	40
24	Climate Change Adaptation and Restoration of Western Trout Streams: Opportunities and Strategies. <i>Fisheries</i> , 2015, 40, 304-317.	0.6	37
25	States and rates: Complementary approaches to developing flow-ecology relationships. <i>Freshwater Biology</i> , 2018, 63, 906-916.	1.2	37
26	Linking Climate Change and Fish Conservation Efforts Using Spatially Explicit Decision Support Tools. <i>Fisheries</i> , 2013, 38, 112-127.	0.6	34
27	Multi-scale assessment of forest cover in an agricultural landscape of Southeastern Brazil: Implications for management and conservation of stream habitat and water quality. <i>Ecological Indicators</i> , 2018, 85, 1181-1191.	2.6	34
28	Urbanization and stream ecology: diverse mechanisms of change. <i>Freshwater Science</i> , 2016, 35, 272-277.	0.9	30
29	Watershed urbanization affects macroinvertebrate community structure and reduces biomass through similar pathways in Piedmont streams, Georgia, USA. <i>Freshwater Science</i> , 2016, 35, 676-688.	0.9	30
30	Do characteristics of pollinator-friendly gardens predict the diversity, abundance, and reproduction of butterflies?. <i>Insect Conservation and Diversity</i> , 2018, 11, 370-382.	1.4	29
31	Spatial and temporal variability in the effects of wildfire and drought on thermal habitat for a desert trout. <i>Journal of Arid Environments</i> , 2017, 145, 60-68.	1.2	28
32	Satellite and Airborne Remote Sensing Applications for Freshwater Fisheries. <i>Fisheries</i> , 2017, 42, 526-537.	0.6	27
33	The missing dead: The lost role of animal remains in nutrient cycling in North American Rivers. <i>Food Webs</i> , 2019, 18, e00106.	0.5	27
34	Urbanization and stream ecology: five years later. <i>Journal of the North American Benthological Society</i> , 2009, 28, 908-910.	3.0	26
35	Illuminating hotspots of imperiled aquatic biodiversity in the southeastern US. <i>Global Ecology and Conservation</i> , 2019, 19, e00654.	1.0	26
36	Influence of forest cover on in-stream large wood in an agricultural landscape of southeastern Brazil: a multi-scale analysis. <i>Landscape Ecology</i> , 2013, 28, 13-27.	1.9	23

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37	Use of Surrogates to Predict the Stressor Response of Imperiled Species. <i>Conservation Biology</i> , 2008, 22, 1564-1571.	2.4	22
38	Governance of Payments for Ecosystem Ecosystem services influences social and environmental outcomes in Costa Rica. <i>Ecological Economics</i> , 2020, 174, 106659.	2.9	22
39	Characterizing the Thermal Suitability of Instream Habitat for Salmonids: A Cautionary Example from the Rocky Mountains. <i>Transactions of the American Fisheries Society</i> , 2013, 142, 793-801.	0.6	21
40	Conservation planning for imperiled aquatic species in an urbanizing environment. <i>Landscape and Urban Planning</i> , 2010, 97, 11-21.	3.4	20
41	Toward Improved Understanding of Streamflow Effects on Freshwater Fishes. <i>Fisheries</i> , 2022, 47, 290-298.	0.6	18
42	Large portion of USA streams lose protection with new interpretation of Clean Water Act. <i>Freshwater Science</i> , 2021, 40, 252-258.	0.9	17
43	Taxonomic identity best explains variation in body nutrient stoichiometry in a diverse marine animal community. <i>Scientific Reports</i> , 2020, 10, 13718.	1.6	16
44	The Role of Complexity in Habitat Use and Selection by Stream Fishes in a Snake River Basin Tributary. <i>Transactions of the American Fisheries Society</i> , 2014, 143, 1177-1187.	0.6	15
45	Hierarchical multi-population viability analysis. <i>Ecology</i> , 2019, 100, e02538.	1.5	15
46	Predation of loggerhead sea turtle eggs across Georgia's barrier islands. <i>Global Ecology and Conservation</i> , 2020, 23, e01139.	1.0	14
47	Not just trash birds: Quantifying avian diversity at landfills using community science data. <i>PLoS ONE</i> , 2021, 16, e0255391.	1.1	14
48	Land Use Associations with Distributions of Declining Native Fishes in the Upper Colorado River Basin. <i>Transactions of the American Fisheries Society</i> , 2011, 140, 646-658.	0.6	13
49	Rethinking foundation species in a changing world: The case for <i>Rhododendron maximum</i> as an emerging foundation species in shifting ecosystems of the southern Appalachians. <i>Forest Ecology and Management</i> , 2020, 472, 118240.	1.4	12
50	Viability analysis for multiple populations. <i>Biological Conservation</i> , 2017, 216, 69-77.	1.9	11
51	Use of recent and historical records to estimate status and trends of a rare and imperiled stream fish, <i>Percina jenkinsi</i> (Percidae). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2011, 68, 739-748.	0.7	10
52	Better Model Transfers Require Knowledge of Mechanisms. <i>Trends in Ecology and Evolution</i> , 2019, 34, 489-490.	4.2	10
53	Phylogenetic conservatism drives nutrient dynamics of coral reef fishes. <i>Nature Communications</i> , 2021, 12, 5432.	5.8	10
54	Climate, Fire Regime, Geomorphology, and Conspecifics Influence the Spatial Distribution of Chinook Salmon Redds. <i>Transactions of the American Fisheries Society</i> , 2021, 150, 8-23.	0.6	9

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55	A strategic monitoring approach for learning to improve natural infrastructure. <i>Science of the Total Environment</i> , 2022, 832, 155078.	3.9	9
56	The influence of land cover on the sensitivity of streams to metal pollution. <i>Water Research</i> , 2018, 144, 55-63.	5.3	8
57	Ignoring temperature variation leads to underestimation of the temperature sensitivity of plant litter decomposition. <i>Ecosphere</i> , 2020, 11, e03050.	1.0	8
58	Streamwater nutrients stimulate respiration and breakdown of standardized detrital substrates across a landscape gradient: Effects of nitrogen, phosphorus, and carbon quality. <i>Freshwater Science</i> , 2020, 39, 101-114.	0.9	8
59	Freshwater crabs (Decapoda: Pseudothelphusidae) increase rates of leaf breakdown in a neotropical headwater stream. <i>Freshwater Biology</i> , 2020, 65, 1673-1684.	1.2	8
60	Application of multiple population viability analysis to evaluate species recovery alternatives. <i>Conservation Biology</i> , 2020, 34, 482-493.	2.4	6
61	Incorporating spatial synchrony in the status assessment of a threatened species with multivariate analysis. <i>Biological Conservation</i> , 2020, 248, 108612.	1.9	6
62	Mixed evidence for biotic homogenization of Southern Appalachian fish communities. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2021, 78, 1397-1406.	0.7	5
63	Do crayfish affect stream ecosystem response to riparian vegetation removal?. <i>Freshwater Biology</i> , 2021, 66, 1423-1435.	1.2	5
64	Distinctive Connectivities of Near-Stream and Watershed-Wide Land Uses Differentially Degrade Rural Aquatic Ecosystems. <i>BioScience</i> , 2022, 72, 144-159.	2.2	5
65	Long-Term Monitoring Data Provide Evidence of Declining Species Richness in a River Valued for Biodiversity Conservation. <i>Journal of Fish and Wildlife Management</i> , 2017, 8, 418-434.	0.4	5
66	Neotropical freshwater crabs (Decapoda: Pseudothelphusidae) shred leaves. <i>Nauplius</i> , 0, 28, .	0.3	4
67	Stream fish colonization but not persistence varies regionally across a large North American river basin. <i>Biological Conservation</i> , 2018, 223, 1-10.	1.9	3
68	Age truncation of alewife in Lake Michigan. <i>Journal of Great Lakes Research</i> , 2019, 45, 958-968.	0.8	3
69	Slow Recovery of Headwater-Stream Fishes Following a Catastrophic Poisoning Event. <i>Journal of Fish and Wildlife Management</i> , 2021, 12, 362-372.	0.4	3
70	Trade-offs Between the Value of Ecosystem Services and Connectivity Among Protected Areas in the Upper Chattahoochee Watershed. <i>Environmental Management</i> , 2022, 69, 937-951.	1.2	3
71	Urban Stream Ecology. <i>Agronomy</i> , 2015, , 341-352.	0.2	0
72	Prioritization of Vulnerable Species Under Scenarios of Anthropogenic-Driven Change in Georgia's Coastal Plain. <i>Journal of Fish and Wildlife Management</i> , 2021, , .	0.4	0

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73	Have stream diatom assemblages changed a decade after the loss of a foundation riparian tree species in a headwater Appalachian watershed?. <i>Freshwater Science</i> , 0, , .	0.9	0