Seth J Wenger

List of Publications by Year
in descending order

73	4,828	186265 28	98798 67
papers	citations	h-index	g-index

81	81	81	6038
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Flow regime, temperature, and biotic interactions drive differential declines of trout species under climate change. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14175-14180.	7.1	484
2	Impediments and Solutions to Sustainable, Watershed-Scale Urban Stormwater Management: Lessons from Australia and the United States. Environmental Management, 2008, 42, 344-359.	2.7	463
3	Assessing transferability of ecological models: an underappreciated aspect of statistical validation. Methods in Ecology and Evolution, 2012, 3, 260-267.	5.2	439
4	Outstanding Challenges in the Transferability of Ecological Models. Trends in Ecology and Evolution, 2018, 33, 790-802.	8.7	403
5	Twenty-six key research questions in urban stream ecology: an assessment of the state of the science. Journal of the North American Benthological Society, 2009, 28, 1080-1098.	3.1	312
6	ESTIMATING SPECIES OCCURRENCE, ABUNDANCE, AND DETECTION PROBABILITY USING ZERO-INFLATED DISTRIBUTIONS. Ecology, 2008, 89, 2953-2959.	3.2	197
7	The NorWeST Summer Stream Temperature Model and Scenarios for the Western U.S.: A Crowdâ€Sourced Database and New Geospatial Tools Foster a User Community and Predict Broad Climate Warming of Rivers and Streams. Water Resources Research, 2017, 53, 9181-9205.	4.2	187
8	Slow climate velocities of mountain streams portend their role as refugia for cold-water biodiversity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4374-4379.	7.1	182
9	Modelling dendritic ecological networks in space: an integrated network perspective. Ecology Letters, 2013, 16, 707-719.	6.4	180
10	Investigating hydrologic alteration as a mechanism of fish assemblage shifts in urbanizing streams. Journal of the North American Benthological Society, 2005, 24, 656-678.	3.1	157
11	Applications of spatial statistical network models to stream data. Wiley Interdisciplinary Reviews: Water, 2014, 1, 277-294.	6.5	139
12	Macroscale hydrologic modeling of ecologically relevant flow metrics. Water Resources Research, 2010, 46, .	4.2	118
13	Sensitivity of summer stream temperatures to climate variability in the Pacific Northwest. Water Resources Research, 2014, 50, 3428-3443.	4.2	106
14	Stream fish occurrence in response to impervious cover, historic land use, and hydrogeomorphic factors. Canadian Journal of Fisheries and Aquatic Sciences, 2008, 65, 1250-1264.	1.4	90
15	Role of climate and invasive species in structuring trout distributions in the interior Columbia River Basin, USA. Canadian Journal of Fisheries and Aquatic Sciences, 2011, 68, 988-1008.	1.4	87
16	Big biology meets microclimatology: defining thermal niches of ectotherms at landscape scales for conservation planning. Ecological Applications, 2017, 27, 977-990.	3.8	80
17	Trends and sensitivities of low streamflow extremes to discharge timing and magnitude in Pacific Northwest mountain streams. Water Resources Research, 2016, 52, 4990-5007.	4.2	75
18	Probabilistic accounting of uncertainty in forecasts of species distributions under climate change. Global Change Biology, 2013, 19, 3343-3354.	9.5	73

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19	Potential effects of climate change on streambed scour and risks to salmonid survival in snowâ€dominated mountain basins. Hydrological Processes, 2013, 27, 750-765.	2.6	70
20	Metabolic theory and taxonomic identity predict nutrient recycling in a diverse food web. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2640-7.	7.1	68
21	Classification of Vegetable Oils by FT-IR. Applied Spectroscopy, 1997, 51, 1118-1124.	2.2	62
22	Importance of Riparian Forests in Urban Catchments Contingent on Sediment and Hydrologic Regimes. Environmental Management, 2006, 37, 523-539.	2.7	48
23	Estimation of daily stream water temperatures with a Bayesian regression approach. Hydrological Processes, 2017, 31, 1719-1733.	2.6	40
24	Climate Change Adaptation and Restoration of Western Trout Streams: Opportunities and Strategies. Fisheries, 2015, 40, 304-317.	0.8	37
25	States and rates: Complementary approaches to developing flowâ€ecology relationships. Freshwater Biology, 2018, 63, 906-916.	2.4	37
26	Linking Climate Change and Fish Conservation Efforts Using Spatially Explicit Decision Support Tools. Fisheries, 2013, 38, 112-127.	0.8	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. Ecological Indicators, 2018, 85, 1181-1191.	6.3	34
28	Urbanization and stream ecology: diverse mechanisms of change. Freshwater Science, 2016, 35, 272-277.	1.8	30
29	Watershed urbanization affects macroinvertebrate community structure and reduces biomass through similar pathways in Piedmont streams, Georgia, USA. Freshwater Science, 2016, 35, 676-688.	1.8	30
30	Do characteristics of pollinatorâ€friendly gardens predict the diversity, abundance, and reproduction of butterflies?. Insect Conservation and Diversity, 2018, 11, 370-382.	3.0	29
31	Spatial and temporal variability in the effects of wildfire and drought on thermal habitat for a desert trout. Journal of Arid Environments, 2017, 145, 60-68.	2.4	28
32	Satellite and Airborne Remote Sensing Applications for Freshwater Fisheries. Fisheries, 2017, 42, 526-537.	0.8	27
33	The missing dead: The lost role of animal remains in nutrient cycling in North American Rivers. Food Webs, 2019, 18, e00106.	1.2	27
34	Urbanization and stream ecology: five years later. Journal of the North American Benthological Society, 2009, 28, 908-910.	3.1	26
35	Illuminating hotspots of imperiled aquatic biodiversity in the southeastern US. Global Ecology and Conservation, 2019, 19, e00654.	2.1	26
36	Influence of forest cover on in-stream large wood in an agricultural landscape of southeastern Brazil: a multi-scale analysis. Landscape Ecology, 2013, 28, 13-27.	4.2	23

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37	Use of Surrogates to Predict the Stressor Response of Imperiled Species. Conservation Biology, 2008, 22, 1564-1571.	4.7	22
38	Governance of Payments for Ecosystem Ecosystem services influences social and environmental outcomes in Costa Rica. Ecological Economics, 2020, 174, 106659.	5.7	22
39	Characterizing the Thermal Suitability of Instream Habitat for Salmonids: A Cautionary Example from the Rocky Mountains. Transactions of the American Fisheries Society, 2013, 142, 793-801.	1.4	21
40	Conservation planning for imperiled aquatic species in an urbanizing environment. Landscape and Urban Planning, 2010, 97, 11-21.	7.5	20
41	Toward Improved Understanding of Streamflow Effects on Freshwater Fishes. Fisheries, 2022, 47, 290-298.	0.8	18
42	Large portion of USA streams lose protection with new interpretation of Clean Water Act. Freshwater Science, 2021, 40, 252-258.	1.8	17
43	Taxonomic identity best explains variation in body nutrient stoichiometry in a diverse marine animal community. Scientific Reports, 2020, 10, 13718.	3.3	16
44	The Role of Complexity in Habitat Use and Selection by Stream Fishes in a Snake River Basin Tributary. Transactions of the American Fisheries Society, 2014, 143, 1177-1187.	1.4	15
45	Hierarchical multiâ€population viability analysis. Ecology, 2019, 100, e02538.	3.2	15
46	Predation of loggerhead sea turtle eggs across Georgiaâ€™s barrier islands. Global Ecology and Conservation, 2020, 23, e01139.	2.1	14
47	Not just trash birds: Quantifying avian diversity at landfills using community science data. PLoS ONE, 2021, 16, e0255391.	2.5	14
48	Land Use Associations with Distributions of Declining Native Fishes in the Upper Colorado River Basin. Transactions of the American Fisheries Society, 2011, 140, 646-658.	1.4	13
49	Rethinking foundation species in a changing world: The case for Rhododendron maximum as an emerging foundation species in shifting ecosystems of the southern Appalachians. Forest Ecology and Management, 2020, 472, 118240.	3.2	12
50	Viability analysis for multiple populations. Biological Conservation, 2017, 216, 69-77.	4.1	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). Canadian Journal of Fisheries and Aquatic Sciences, 2011, 68, 739-748.	1.4	10
52	Better Model Transfers Require Knowledge of Mechanisms. Trends in Ecology and Evolution, 2019, 34, 489-490.	8.7	10
53	Phylogenetic conservatism drives nutrient dynamics of coral reef fishes. Nature Communications, 2021, 12, 5432.	12.8	10
54	Climate, Fire Regime, Geomorphology, and Conspecifics Influence the Spatial Distribution of Chinook Salmon Redds. Transactions of the American Fisheries Society, 2021, 150, 8-23.	1.4	9

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55	A strategic monitoring approach for learning to improve natural infrastructure. Science of the Total Environment, 2022, 832, 155078.	8.0	9
56	The influence of land cover on the sensitivity of streams to metal pollution. Water Research, 2018, 144, 55-63.	11.3	8
57	Ignoring temperature variation leads to underestimation of the temperature sensitivity of plant litter decomposition. Ecosphere, 2020, 11, e03050.	2.2	8
58	Streamwater nutrients stimulate respiration and breakdown of standardized detrital substrates across a landscape gradient: Effects of nitrogen, phosphorus, and carbon quality. Freshwater Science, 2020, 39, 101-114.	1.8	8
59	Freshwater crabs (Decapoda: Pseudothelphusidae) increase rates of leaf breakdown in a neotropical headwater stream. Freshwater Biology, 2020, 65, 1673-1684.	2.4	8
60	Application of multipleâ€population viability analysis to evaluate species recovery alternatives. Conservation Biology, 2020, 34, 482-493.	4.7	6
61	Incorporating spatial synchrony in the status assessment of a threatened species with multivariate analysis. Biological Conservation, 2020, 248, 108612.	4.1	6
62	Mixed evidence for biotic homogenization of Southern Appalachian fish communities. Canadian Journal of Fisheries and Aquatic Sciences, 2021, 78, 1397-1406.	1.4	5
63	Do crayfish affect stream ecosystem response to riparian vegetation removal?. Freshwater Biology, 2021, 66, 1423-1435.	2.4	5
64	Distinctive Connectivities of Near-Stream and Watershed-Wide Land Uses Differentially Degrade Rural Aquatic Ecosystems. BioScience, 2022, 72, 144-159.	4.9	5
65	Long-Term Monitoring Data Provide Evidence of Declining Species Richness in a River Valued for Biodiversity Conservation. Journal of Fish and Wildlife Management, 2017, 8, 418-434.	0.9	5
66	Neotropical freshwater crabs (Decapoda: Pseudothelphusidae) shred leaves. Nauplius, 0, 28, .	0.3	4
67	Stream fish colonization but not persistence varies regionally across a large North American river basin. Biological Conservation, 2018, 223, 1-10.	4.1	3
68	Age truncation of alewife in Lake Michigan. Journal of Great Lakes Research, 2019, 45, 958-968.	1.9	3
69	Slow Recovery of Headwater-Stream Fishes Following a Catastrophic Poisoning Event. Journal of Fish and Wildlife Management, 2021, 12, 362-372.	0.9	3
70	Trade-offs Between the Value of Ecosystem Services and Connectivity Among Protected Areas in the Upper Chattahoochee Watershed. Environmental Management, 2022, 69, 937-951.	2.7	3
71	Urban Stream Ecology. Agronomy, 2015, , 341-352.	0.2	0
72	Prioritization of Vulnerable Species Under Scenarios of Anthropogenic-Driven Change in Georgia's Coastal Plain. Journal of Fish and Wildlife Management, 2021, , .	0.9	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?. Freshwater Science, 0, , .	1.8	0