

Daniel E Schindler

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136
papers

9,332
citations

48
h-index

95
g-index

138
ext. papers

10,682
ext. citations

6.3
avg, IF

6.36
L-index

#	Paper	IF	Citations
136	Population diversity and the portfolio effect in an exploited species. <i>Nature</i> , 2010 , 465, 609-12	50.4	945
135	Biocomplexity and fisheries sustainability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 6564-8	11.5	649
134	Rapid and highly variable warming of lake surface waters around the globe. <i>Geophysical Research Letters</i> , 2015 , 42, 10,773	4.9	549
133	CLIMATE CHANGE UNCOUPLES TROPHIC INTERACTIONS IN AN AQUATIC ECOSYSTEM. <i>Ecology</i> , 2004 , 85, 2100-2106	4.6	547
132	Habitat coupling in lake ecosystems. <i>Oikos</i> , 2002 , 98, 177-189	4	478
131	Pacific Salmon, Nutrients, and the Dynamics of Freshwater and Riparian Ecosystems. <i>Ecosystems</i> , 2002 , 5, 399-417	3.9	414
130	TROPHIC CASCADES, NUTRIENTS, AND LAKE PRODUCTIVITY: WHOLE-LAKE EXPERIMENTS. <i>Ecological Monographs</i> , 2001 , 71, 163-186	9	348
129	Climatic effects on the phenology of lake processes. <i>Global Change Biology</i> , 2004 , 10, 1844-1856	11.4	290
128	The portfolio concept in ecology and evolution. <i>Frontiers in Ecology and the Environment</i> , 2015 , 13, 257-263	3.3	228
127	Pacific salmon and the ecology of coastal ecosystems. <i>Frontiers in Ecology and the Environment</i> , 2003 , 1, 31-37	5.5	224
126	Sustainability. Prediction, precaution, and policy under global change. <i>Science</i> , 2015 , 347, 953-4	33.3	182
125	STOICHIOMETRY OF FISHES AND THEIR PREY: IMPLICATIONS FOR NUTRIENT RECYCLING. <i>Ecology</i> , 1997 , 78, 1816-1831	4.6	150
124	DIEL VERTICAL MIGRATION BY JUVENILE SOCKEYE SALMON: EMPIRICAL EVIDENCE FOR THE ANTIPREDATION WINDOW. <i>Ecology</i> , 2003 , 84, 1713-1720	4.6	128
123	The Role of Sharks and Longline Fisheries in a Pelagic Ecosystem of the Central Pacific. <i>Ecosystems</i> , 2002 , 5, 202-216	3.9	126
122	Animating the Carbon Cycle. <i>Ecosystems</i> , 2014 , 17, 344-359	3.9	123
121	Simultaneous quantification of aquatic ecosystem metabolism and reaeration using a Bayesian statistical model of oxygen dynamics. <i>Limnology and Oceanography</i> , 2010 , 55, 1047-1063	4.8	123
120	EFFECTS OF CHANGING CLIMATE ON ZOOPLANKTON AND JUVENILE SOCKEYE SALMON GROWTH IN SOUTHWESTERN ALASKA. <i>Ecology</i> , 2005 , 86, 198-209	4.6	120

119	Alteration of Nutrient Cycles and Algal Production Resulting from Fish Introductions into Mountain Lakes. <i>Ecosystems</i> , 2001 , 4, 308-321	3.9	120
118	A global database of lake surface temperatures collected by in situ and satellite methods from 1985-2009. <i>Scientific Data</i> , 2015 , 2, 150008	8.2	116
117	Synchronization and portfolio performance of threatened salmon. <i>Conservation Letters</i> , 2010 , 3, 340-348.	3.9	116
116	Diel horizontal migration in streams: juvenile fish exploit spatial heterogeneity in thermal and trophic resources. <i>Ecology</i> , 2013 , 94, 2066-75	4.6	101
115	Riding the crimson tide: mobile terrestrial consumers track phenological variation in spawning of an anadromous fish. <i>Biology Letters</i> , 2013 , 9, 20130048	3.6	91
114	SHARKS AND TUNAS: FISHERIES IMPACTS ON PREDATORS WITH CONTRASTING LIFE HISTORIES 2002 , 12, 735-748		89
113	Resource waves: phenological diversity enhances foraging opportunities for mobile consumers. <i>Ecology</i> , 2016 , 97, 1099-112	4.6	86
112	Changes in the Spatial Distribution of Fishes in Lakes Along a Residential Development Gradient. <i>Ecosystems</i> , 2004 , 7, 98-106	3.9	81
111	MARINE-DERIVED NUTRIENTS, COMMERCIAL FISHERIES, AND PRODUCTION OF SALMON AND LAKE ALGAE IN ALASKA. <i>Ecology</i> , 2005 , 86, 3225-3231	4.6	80
110	Association between geomorphic attributes of watersheds, water temperature, and salmon spawn timing in Alaskan streams. <i>Geomorphology</i> , 2013 , 185, 78-86	4.3	78
109	Marine-derived nutrients, bioturbation, and ecosystem metabolism: reconsidering the role of salmon in streams. <i>Ecology</i> , 2011 , 92, 373-85	4.6	76
108	Varying effects of anadromous sockeye salmon on the trophic ecology of two species of resident salmonids in southwest Alaska. <i>Freshwater Biology</i> , 2007 , 52, 1944-1956	3.1	76
107	Habitat structure determines resource use by zooplankton in temperate lakes. <i>Ecology Letters</i> , 2011 , 14, 364-72	10	75
106	Effects of climatic variability on the thermal properties of Lake Washington. <i>Limnology and Oceanography</i> , 2004 , 49, 256-270	4.8	75
105	Evaluating early-warning indicators of critical transitions in natural aquatic ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E8089-E8095	11.5	69
104	Fisheries portfolio diversification and turnover buffer Alaskan fishing communities from abrupt resource and market changes. <i>Nature Communications</i> , 2017 , 8, 14042	17.4	69
103	Climate Change, Ecosystem Impacts, and Management for Pacific Salmon. <i>Fisheries</i> , 2008 , 33, 502-506	1.1	69
102	Biotic disturbance and benthic community dynamics in salmon-bearing streams. <i>Journal of Animal Ecology</i> , 2008 , 77, 275-84	4.7	68

101	Watershed geomorphology and snowmelt control stream thermal sensitivity to air temperature. <i>Geophysical Research Letters</i> , 2015 , 42, 3380-3388	4.9	65
100	Who Should Pick the Winners of Climate Change?. <i>Trends in Ecology and Evolution</i> , 2017 , 32, 167-173	10.9	62
99	Asynchrony in population dynamics of sockeye salmon in southwest Alaska. <i>Oikos</i> , 2008 , 117, 1578-15864		62
98	Shifting habitat mosaics and fish production across river basins. <i>Science</i> , 2019 , 364, 783-786	33.3	61
97	Subsidies of Aquatic Resources in Terrestrial Ecosystems. <i>Ecosystems</i> , 2017 , 20, 78-93	3.9	59
96	Trophic ecology of Pacific salmon (<i>Oncorhynchus</i> spp.) in the ocean: a synthesis of stable isotope research. <i>Ecological Research</i> , 2009 , 24, 855-863	1.9	58
95	The Introduction of Nonnative Fish into Wilderness Lakes: Good Intentions, Conflicting Mandates, and Unintended Consequences. <i>Ecosystems</i> , 2001 , 4, 275-278	3.9	56
94	Going with the Flow: Spatial Distributions of Juvenile Coho Salmon Track an Annually Shifting Mosaic of Water Temperature. <i>Ecosystems</i> , 2013 , 16, 1429-1441	3.9	54
93	Temperature-associated population diversity in salmon confers benefits to mobile consumers. <i>Ecology</i> , 2011 , 92, 2073-84	4.6	54
92	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	11.5	52
91	Unaccounted mortality in salmon fisheries: non-retention in gillnets and effects on estimates of spawners. <i>Journal of Applied Ecology</i> , 2009 , 46, 752-761	5.8	50
90	Coalescence in the Lake Washington story: Interaction strengths in a planktonic food web. <i>Limnology and Oceanography</i> , 2006 , 51, 2042-2051	4.8	50
89	ALTERNATIVE FISHERIES AND THE PREDATION RATE OF YELLOWFIN TUNA IN THE EASTERN PACIFIC OCEAN 2002 , 12, 724-734		50
88	Large predators and biogeochemical hotspots: brown bear (<i>Ursus arctos</i>) predation on salmon alters nitrogen cycling in riparian soils. <i>Ecological Research</i> , 2009 , 24, 1125-1135	1.9	47
87	Performance of salmon fishery portfolios across western North America. <i>Journal of Applied Ecology</i> , 2014 , 51, 1554-1563	5.8	45
86	Demographic changes in Chinook salmon across the Northeast Pacific Ocean. <i>Fish and Fisheries</i> , 2018 , 19, 533-546	6	43
85	Genomic islands of divergence linked to ecotypic variation in sockeye salmon. <i>Molecular Ecology</i> , 2017 , 26, 554-570	5.7	43
84	Centennial-scale fluctuations and regional complexity characterize Pacific salmon population dynamics over the past five centuries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 1750-5	11.5	43

83	OPTICAL CHARACTERISTICS OF NATURAL WATERS PROTECT AMPHIBIANS FROM UV-B IN THE U.S. PACIFIC NORTHWEST. <i>Ecology</i> , 2002 , 83, 2951-2957	4.6	42
82	Spawning Habitat and Geography Influence Population Structure and Juvenile Migration Timing of Sockeye Salmon in the Wood River Lakes, Alaska. <i>Transactions of the American Fisheries Society</i> , 2011 , 140, 763-782	1.7	41
81	Spawning salmon and the phenology of emergence in stream insects. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010 , 277, 1695-703	4.4	40
80	EFFECTS OF GRAZER COMMUNITY STRUCTURE ON PHYTOPLANKTON RESPONSE TO NUTRIENT PULSES. <i>Ecology</i> , 2000 , 81, 183-200	4.6	39
79	Responses of Zooplankton Populations to Four Decades of Climate Warming in Lakes of Southwestern Alaska. <i>Ecosystems</i> , 2012 , 15, 1010-1026	3.9	37
78	Disrupted seasonal clockwork in the population dynamics of a freshwater copepod by climate warming. <i>Limnology and Oceanography</i> , 2009 , 54, 2493-2505	4.8	37
77	Dendritic network models: Improving isoscapes and quantifying influence of landscape and in-stream processes on strontium isotopes in rivers. <i>Geophysical Research Letters</i> , 2016 , 43, 5043-5051	4.9	36
76	Management for network diversity speeds evolutionary adaptation to climate change. <i>Nature Climate Change</i> , 2019 , 9, 632-636	21.4	34
75	Scale and the detection of climatic influences on the productivity of salmon populations. <i>Global Change Biology</i> , 2011 , 17, 2546-2558	11.4	32
74	Stream geomorphology regulates the effects on periphyton of ecosystem engineering and nutrient enrichment by Pacific salmon. <i>Freshwater Biology</i> , 2010 , 55, 2598-2611	3.1	31
73	Effects of warming climate and competition in the ocean for life-histories of Pacific salmon. <i>Nature Ecology and Evolution</i> , 2019 , 3, 935-942	12.3	30
72	Effects of Urbanization on the Dynamics of Organic Sediments in Temperate Lakes. <i>Ecosystems</i> , 2007 , 10, 1057-1068	3.9	30
71	Population coherence and environmental impacts across spatial scales: a case study of Chinook salmon. <i>Ecosphere</i> , 2016 , 7, e01333	3.1	30
70	QUANTIFYING SPATIAL PATTERN WITH EVENNESS INDICES 2005 , 15, 507-520		29
69	Variation in spatial and temporal gradients in zooplankton spring development: the effect of climatic factors. <i>Freshwater Biology</i> , 2005 , 50, 1007-1021	3.1	28
68	Empirical evaluation of observation scale effects in community time series. <i>Oikos</i> , 2006 , 113, 424-439	4	27
67	Foraging and growth responses of stream-dwelling fishes to inter-annual variation in a pulsed resource subsidy. <i>Ecosphere</i> , 2012 , 3, art113	3.1	26
66	A multi-proxy record of the Last Glacial Maximum and last 14,500 years of paleoenvironmental change at Lone Spruce Pond, southwestern Alaska. <i>Journal of Paleolimnology</i> , 2012 , 48, 9-26	2.1	24

65	Association of amphibians with attenuation of ultraviolet-b radiation in montane ponds. <i>Oecologia</i> , 2001 , 128, 519-525	2.9	24
64	Juvenile coho salmon track a seasonally shifting thermal mosaic across a river floodplain. <i>Freshwater Biology</i> , 2016 , 61, 1454-1465	3.1	23
63	Aquatic insects play a minor role in dispersing salmon-derived nutrients into riparian forests in southwestern Alaska. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2006 , 63, 2543-2552	2.4	22
62	Linking otolith microchemistry and dendritic isoscapes to map heterogeneous production of fish across river basins 2017 , 27, 363-377		21
61	Deeper waters are changing less consistently than surface waters in a global analysis of 102 lakes. <i>Scientific Reports</i> , 2020 , 10, 20514	4.9	19
60	Environmental and algal forcing of Daphnia production dynamics. <i>Limnology and Oceanography</i> , 2002 , 47, 1477-1485	4.8	18
59	TROPHIC CASCADES, NUTRIENTS, AND LAKE PRODUCTIVITY: WHOLE-LAKE EXPERIMENTS 2001 , 71, 163		18
58	Species- and community-level responses combine to drive phenology of lake phytoplankton. <i>Ecology</i> , 2013 , 94, 2188-94	4.6	17
57	Resurgence of an apex marine predator and the decline in prey body size. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 ,	11.5	17
56	Spatial heterogeneity contributes more to portfolio effects than species variability in bottom-associated marine fishes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018 , 285,	4.4	17
55	Geomorphology controls the trophic base of stream food webs in a boreal watershed. <i>Ecology</i> , 2015 , 96, 1775-82	4.6	16
54	Spatial variation in timing of marine subsidies influences riparian phenology through a plant-pollinator mutualism. <i>Ecosphere</i> , 2011 , 2, art101	3.1	16
53	Glacier Retreat and Pacific Salmon. <i>BioScience</i> , 2020 , 70, 220-236	5.7	15
52	Individual behavior drives ecosystem function and the impacts of harvest. <i>Science Advances</i> , 2020 , 6, eaax8329	14.3	15
51	Does lipid-correction introduce biases into isotopic mixing models? Implications for diet reconstruction studies. <i>Oecologia</i> , 2019 , 191, 745-755	2.9	15
50	Watershed geomorphology interacts with precipitation to influence the magnitude and source of CO2 emissions from Alaskan streams. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 1903-1921	3.7	15
49	Fish extinctions and ecosystem functioning in tropical ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 5707-8	11.5	15
48	Response of chinook salmon to climate change. <i>Nature Climate Change</i> , 2015 , 5, 613-615	21.4	14

47	Freshwater habitat associations between pink (<i>Oncorhynchus gorbuscha</i>), chum (<i>O. tshawytscha</i>) and Chinook salmon (<i>O. tshawytscha</i>) in a watershed dominated by sockeye salmon (<i>O. nerka</i>) abundance. <i>Ecology of Freshwater Fish</i> , 2014 , 23, 360-372	2.1	14
46	Ecological, landscape, and climatic regulation of sediment geochemistry in North American sockeye salmon nursery lakes: Insights for paleoecological salmon investigations. <i>Limnology and Oceanography</i> , 2009 , 54, 1733-1745	4.8	14
45	An assessment of assumptions and uncertainty in deuterium-based estimates of terrestrial subsidies to aquatic consumers. <i>Ecology</i> , 2018 , 99, 1073-1088	4.6	14
44	Adaptive capacity at the northern front: sockeye salmon behaviourally thermoregulate during novel exposure to warm temperatures 2016 , 4, cow039		13
43	Two-stage metabolism inferred from diel oxygen dynamics in aquatic ecosystems. <i>Ecosphere</i> , 2017 , 8, e01867	3.1	13
42	Consequences of changing climate and geomorphology for bioenergetics of juvenile sockeye salmon in a shallow Alaskan lake. <i>Ecology of Freshwater Fish</i> , 2012 , 21, 349-362	2.1	13
41	Body Condition Correlates with Instantaneous Growth in Stream-Dwelling Rainbow Trout and Arctic Grayling. <i>Transactions of the American Fisheries Society</i> , 2013 , 142, 747-755	1.7	13
40	Comment on Demars et al. 2015, Stream metabolism and the open diel oxygen method: Principles, practice, and perspectives <i>Limnology and Oceanography: Methods</i> , 2016 , 14, 110-113	2.6	13
39	Predator avoidance during reproduction: diel movements by spawning sockeye salmon between stream and lake habitats. <i>Journal of Animal Ecology</i> , 2014 , 83, 1478-89	4.7	12
38	Effects of simultaneous climate change and geomorphic evolution on thermal characteristics of a shallow Alaskan lake. <i>Limnology and Oceanography</i> , 2011 , 56, 193-205	4.8	12
37	Selection due to nonretention mortality in gillnet fisheries for salmon. <i>Evolutionary Applications</i> , 2011 , 4, 429-43	4.8	12
36	Diverse juvenile life-history behaviours contribute to the spawning stock of an anadromous fish population. <i>Ecology of Freshwater Fish</i> , 2015 , 24, 204-213	2.1	11
35	Wind-driven upwelling in lakes destabilizes thermal regimes of downstream rivers. <i>Limnology and Oceanography</i> , 2015 , 60, 169-180	4.8	10
34	Episodic predation of mammals by stream fishes in a boreal river basin. <i>Ecology of Freshwater Fish</i> , 2014 , 23, 622-630	2.1	9
33	Influences of spawning timing, water temperature, and climatic warming on early life history phenology in western Alaska sockeye salmon. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2019 , 76, 123-135	2.4	9
32	Quantifying habitat use of migratory fish across riverscapes using space-time isotope models. <i>Methods in Ecology and Evolution</i> , 2019 , 10, 1036-1047	7.7	8
31	The reproductive value of large females: consequences of shifts in demographic structure for population reproductive potential in Chinook salmon. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2020 , 77, 1292-1301	2.4	8
30	Low snowpack reduces thermal response diversity among streams across a landscape. <i>Limnology and Oceanography Letters</i> , 2020 , 5, 254-263	7.9	8

29	Depth variation in isotopic composition of benthic resources and assessment of sculpin feeding patterns in an oligotrophic Alaskan lake. <i>Aquatic Ecology</i> , 2013 , 47, 403-414	1.9	8
28	Mysis in the Okanagan Lake food web: a time-series analysis of interaction strengths in an invaded plankton community. <i>Aquatic Ecology</i> , 2012 , 46, 215-227	1.9	8
27	Salmon-derived nutrients drive diatom beta-diversity patterns. <i>Freshwater Biology</i> , 2011 , 56, 292-301	3.1	8
26	Migration Timing of Adult Chinook Salmon into the Togiak River, Alaska, Watershed: Is There Evidence for Stock Structure?. <i>Transactions of the American Fisheries Society</i> , 2015 , 144, 829-836	1.7	7
25	Climate variation is filtered differently among lakes to influence growth of juvenile sockeye salmon in an Alaskan watershed. <i>Oikos</i> , 2014 , 123, 687-698	4	7
24	Warmer climate squeezes aquatic predators out of their preferred habitat. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 9764-9765	11.5	7
23	Inter-Tributary Movements by Resident Salmonids across a Boreal Riverscape. <i>PLoS ONE</i> , 2015 , 10, e0136985	3.9	7
22	Watershed complexity increases the capacity for salmon-wildlife interactions in coastal ecosystems. <i>Conservation Letters</i> , 2020 , 13, e12689	6.9	5
21	Evolution reverses the effect of network structure on metapopulation persistence. <i>Ecology</i> , 2021 , 102, e03381	4.6	5
20	Evolution and connectivity influence the persistence and recovery of coral reefs under climate change in the Caribbean, Southwest Pacific, and Coral Triangle. <i>Global Change Biology</i> , 2021 , 27, 4307-4321	11.4	5
19	Landcover and geomorphology influence streamwater temperature sensitivity in salmon bearing watersheds in Southeast Alaska. <i>Environmental Research Letters</i> , 2018 , 13, 064034	6.2	5
18	Long time horizon for adaptive management to reveal predation effects in a salmon fishery. <i>Ecological Applications</i> , 2016 , 26, 2693-2705	4.9	4
17	Thermal constraints on stream consumer responses to a marine resource subsidy. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2016 , 73, 1661-1671	2.4	4
16	Headwater Catchments Govern Biogeochemistry in America's Largest Free-Flowing River Network. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2020JG005851	3.7	4
15	The phenology of migration in an unpredictable world. <i>Journal of Animal Ecology</i> , 2019 , 88, 8-10	4.7	3
14	Improving short-term recruitment forecasts for coho salmon using a spatiotemporal integrated population model. <i>Fisheries Research</i> , 2021 , 242, 106014	2.3	3
13	Constrained by markets: processing costs limit potential for managing predator-prey interactions in a commercial fishery. <i>Journal of Applied Ecology</i> , 2017 , 54, 1946-1956	5.8	2
12	OPTICAL CHARACTERISTICS OF NATURAL WATERS PROTECT AMPHIBIANS FROM UV-B IN THE U.S. PACIFIC NORTHWEST: REPLY. <i>Ecology</i> , 2004 , 85, 1754-1759	4.6	2

11	Ecological dynamics of a peri-urban lake: a multi-proxy paleolimnological study of Cultus Lake (British Columbia) over the past ~ 200 years. <i>Journal of Paleolimnology</i> , 2021 , 65, 33-51	2.1	2
10	Resource waves: phenological diversity enhances foraging opportunities for mobile consumers 2016 , 97, 1099		1
9	Depth-specific benthic specialization of Arctic char in an oligotrophic subarctic lake. <i>Aquatic Sciences</i> , 2021 , 83, 1	2.5	1
8	Evolution and connectivity influence the persistence and recovery of coral reefs under climate change in the Caribbean, Southwest Pacific, and Coral Triangle		1
7	Global data set of long-term summertime vertical temperature profiles in 153 lakes. <i>Scientific Data</i> , 2021 , 8, 200	8.2	1
6	Assessing the potential for demographic restoration and assisted evolution to build climate resilience in coral reefs.. <i>Ecological Applications</i> , 2022 , e2650	4.9	1
5	Isotopes in teeth and a cryptic population of coastal freshwater seals. <i>Conservation Biology</i> , 2019 , 33, 1415-1425	6	0
4	Interaction between watershed features and climate forcing affects habitat profitability for juvenile salmon. <i>Ecosphere</i> , 2020 , 11, e03266	3.1	0
3	Watershed Alnus cover alters N:P stoichiometry and intensifies P limitation in subarctic streams. <i>Biogeochemistry</i> , 2021 , 153, 155-176	3.8	0
2	Effects of variability and synchrony in assessing contributions of individual streams to habitat portfolios of river basins. <i>Ecological Indicators</i> , 2021 , 124, 107427	5.8	0
1	Glacier retreat creating new Pacific salmon habitat in western North America. <i>Nature Communications</i> , 2021 , 12, 6816	17.4	0