Daniel E Schindler

List of Publications by Year in Descending Order

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	Assessing the potential for demographic restoration and assisted evolution to build climate resilience in coral reefs.. *Ecological Applications*, **2022**, e2650	4.9	1
135	Depth-specific benthic specialization of Arctic char in an oligotrophic subarctic lake. *Aquatic Sciences*, **2021**, 83, 1	2.5	1
134	Watershed Alnus cover alters N:P stoichiometry and intensifies P limitation in subarctic streams. *Biogeochemistry*, **2021**, 153, 155-176	3.8	0
133	Effects of variability and synchrony in assessing contributions of individual streams to habitat portfolios of river basins. *Ecological Indicators*, **2021**, 124, 107427	5.8	0
132	Evolution reverses the effect of network structure on metapopulation persistence. *Ecology*, **2021**, 102, e03381	4.6	5
131	Evolution and connectivity influence the persistence and recovery of coral reefs under climate change in the Caribbean, Southwest Pacific, and Coral Triangle. *Global Change Biology*, **2021**, 27, 4307-4321	11.4	5
130	Ecological dynamics of a peri-urban lake: a multi-proxy paleolimnological study of Cultus Lake (British Columbia) over the past ~ 200 years. *Journal of Paleolimnology*, **2021**, 65, 33-51	2.1	2
129	Global data set of long-term summertime vertical temperature profiles in 153 lakes. *Scientific Data*, **2021**, 8, 200	8.2	1
128	Improving short-term recruitment forecasts for coho salmon using a spatiotemporal integrated population model. *Fisheries Research*, **2021**, 242, 106014	2.3	3
127	Glacier retreat creating new Pacific salmon habitat in western North America. *Nature Communications*, **2021**, 12, 6816	17.4	0
126	Interaction between watershed features and climate forcing affects habitat profitability for juvenile salmon. *Ecosphere*, **2020**, 11, e03266	3.1	0
125	The reproductive value of large females: consequences of shifts in demographic structure for population reproductive potential in Chinook salmon. *Canadian Journal of Fisheries and Aquatic Sciences*, **2020**, 77, 1292-1301	2.4	8
124	Glacier Retreat and Pacific Salmon. *BioScience*, **2020**, 70, 220-236	5.7	15
123	Low snowpack reduces thermal response diversity among streams across a landscape. *Limnology and Oceanography Letters*, **2020**, 5, 254-263	7.9	8
122	Watershed complexity increases the capacity for salmon–wildlife interactions in coastal ecosystems. *Conservation Letters*, **2020**, 13, e12689	6.9	5
121	Individual behavior drives ecosystem function and the impacts of harvest. *Science Advances*, **2020**, 6, eaax8329	14.3	15
120	Headwater Catchments Govern Biogeochemistry in America's Largest Free-Flowing River Network. *Journal of Geophysical Research G: Biogeosciences*, **2020**, 125, e2020JG005851	3.7	4

119	Deeper waters are changing less consistently than surface waters in a global analysis of 102 lakes. *Scientific Reports*, **2020**, 10, 20514	4.9	19
118	The phenology of migration in an unpredictable world. *Journal of Animal Ecology*, **2019**, 88, 8-10	4.7	3
117	Effects of warming climate and competition in the ocean for life-histories of Pacific salmon. *Nature Ecology and Evolution*, **2019**, 3, 935-942	12.3	30
116	Shifting habitat mosaics and fish production across river basins. *Science*, **2019**, 364, 783-786	33.3	61
115	Isotopes in teeth and a cryptic population of coastal freshwater seals. *Conservation Biology*, **2019**, 33, 1415-1425	6	0
114	Quantifying habitat use of migratory fish across riverscapes using space-time isotope models. *Methods in Ecology and Evolution*, **2019**, 10, 1036-1047	7.7	8
113	Management for network diversity speeds evolutionary adaptation to climate change. *Nature Climate Change*, **2019**, 9, 632-636	21.4	34
112	Does lipid-correction introduce biases into isotopic mixing models? Implications for diet reconstruction studies. *Oecologia*, **2019**, 191, 745-755	2.9	15
111	Resurgence of an apex marine predator and the decline in prey body size. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**,	11.5	17
110	Influences of spawning timing, water temperature, and climatic warming on early life history phenology in western Alaska sockeye salmon. *Canadian Journal of Fisheries and Aquatic Sciences*, **2019**, 76, 123-135	2.4	9
109	Demographic changes in Chinook salmon across the Northeast Pacific Ocean. *Fish and Fisheries*, **2018**, 19, 533-546	6	43
108	Landcover and geomorphology influence streamwater temperature sensitivity in salmon bearing watersheds in Southeast Alaska. *Environmental Research Letters*, **2018**, 13, 064034	6.2	5
107	Spatial heterogeneity contributes more to portfolio effects than species variability in bottom-associated marine fishes. *Proceedings of the Royal Society B: Biological Sciences*, **2018**, 285,	4.4	17
106	An assessment of assumptions and uncertainty in deuterium-based estimates of terrestrial subsidies to aquatic consumers. *Ecology*, **2018**, 99, 1073-1088	4.6	14
105	Who Should Pick the Winners of Climate Change?. *Trends in Ecology and Evolution*, **2017**, 32, 167-173	10.9	62
104	Constrained by markets: processing costs limit potential for managing predator–prey interactions in a commercial fishery. *Journal of Applied Ecology*, **2017**, 54, 1946-1956	5.8	2
103	Warmer climate squeezes aquatic predators out of their preferred habitat. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 9764-9765	11.5	7
102	Fisheries portfolio diversification and turnover buffer Alaskan fishing communities from abrupt resource and market changes. *Nature Communications*, **2017**, 8, 14042	17.4	69

101	Two-stage metabolism inferred from diel oxygen dynamics in aquatic ecosystems. *Ecosphere*, **2017**, 8, e01867	3.1	13
100	Genomic islands of divergence linked to ecotypic variation in sockeye salmon. *Molecular Ecology*, **2017**, 26, 554-570	5.7	43
99	Subsidies of Aquatic Resources in Terrestrial Ecosystems. *Ecosystems*, **2017**, 20, 78-93	3.9	59
98	Linking otolith microchemistry and dendritic isoscapes to map heterogeneous production of fish across river basins **2017**, 27, 363-377		21
97	Watershed geomorphology interacts with precipitation to influence the magnitude and source of CO2 emissions from Alaskan streams. *Journal of Geophysical Research G: Biogeosciences*, **2017**, 122, 1903-1921	3.7	15
96	Long time horizon for adaptive management to reveal predation effects in a salmon fishery. *Ecological Applications*, **2016**, 26, 2693-2705	4.9	4
95	Evaluating early-warning indicators of critical transitions in natural aquatic ecosystems. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E8089-E8095	11.5	69
94	Thermal constraints on stream consumer responses to a marine resource subsidy. *Canadian Journal of Fisheries and Aquatic Sciences*, **2016**, 73, 1661-1671	2.4	4
93	Adaptive capacity at the northern front: sockeye salmon behaviourally thermoregulate during novel exposure to warm temperatures **2016**, 4, cow039		13
92	Resource waves: phenological diversity enhances foraging opportunities for mobile consumers **2016**, 97, 1099		1
91	Population coherence and environmental impacts across spatial scales: a case study of Chinook salmon. *Ecosphere*, **2016**, 7, e01333	3.1	30
90	Juvenile coho salmon track a seasonally shifting thermal mosaic across a river floodplain. *Freshwater Biology*, **2016**, 61, 1454-1465	3.1	23
89	Comment on Demars et al. 2015, Stream metabolism and the open diel oxygen method: Principles, practice, and perspectives *Limnology and Oceanography: Methods*, **2016**, 14, 110-113	2.6	13
88	Resource waves: phenological diversity enhances foraging opportunities for mobile consumers. *Ecology*, **2016**, 97, 1099-112	4.6	86
87	Dendritic network models: Improving isoscapes and quantifying influence of landscape and in-stream processes on strontium isotopes in rivers. *Geophysical Research Letters*, **2016**, 43, 5043-5051	4.9	36
86	Sustainability. Prediction, precaution, and policy under global change. *Science*, **2015**, 347, 953-4	33.3	182
85	Wind-driven upwelling in lakes destabilizes thermal regimes of downstream rivers. *Limnology and Oceanography*, **2015**, 60, 169-180	4.8	10
84	Migration Timing of Adult Chinook Salmon into the Togiak River, Alaska, Watershed: Is There Evidence for Stock Structure?. *Transactions of the American Fisheries Society*, **2015**, 144, 829-836	1.7	7

83	Response of chinook salmon to climate change. *Nature Climate Change*, **2015**, 5, 613-615	21.4	14
82	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	11.5	52
81	Diverse juvenile life-history behaviours contribute to the spawning stock of an anadromous fish population. *Ecology of Freshwater Fish*, **2015**, 24, 204-213	2.1	11
80	Geomorphology controls the trophic base of stream food webs in a boreal watershed. *Ecology*, **2015**, 96, 1775-82	4.6	16
79	Rapid and highly variable warming of lake surface waters around the globe. *Geophysical Research Letters*, **2015**, 42, 10,773	4.9	549
78	A global database of lake surface temperatures collected by in situ and satellite methods from 1985-2009. *Scientific Data*, **2015**, 2, 150008	8.2	116
77	Watershed geomorphology and snowmelt control stream thermal sensitivity to air temperature. *Geophysical Research Letters*, **2015**, 42, 3380-3388	4.9	65
76	The portfolio concept in ecology and evolution. *Frontiers in Ecology and the Environment*, **2015**, 13, 257-263	9.3	228
75	Inter-Tributary Movements by Resident Salmonids across a Boreal Riverscape. *PLoS ONE*, **2015**, 10, e0136985	3.7	7
74	Animating the Carbon Cycle. *Ecosystems*, **2014**, 17, 344-359	3.9	123
73	Episodic predation of mammals by stream fishes in a boreal river basin. *Ecology of Freshwater Fish*, **2014**, 23, 622-630	2.1	9
72	Climate variation is filtered differently among lakes to influence growth of juvenile sockeye salmon in an Alaskan watershed. *Oikos*, **2014**, 123, 687-698	4	7
71	Predator avoidance during reproduction: diel movements by spawning sockeye salmon between stream and lake habitats. *Journal of Animal Ecology*, **2014**, 83, 1478-89	4.7	12
70	Freshwater habitat associations between pink (Oncorhynchus gorbuscha), chum (O. keta) and Chinook salmon (O. tshawytscha) in a watershed dominated by sockeye salmon (O. nerka) abundance. *Ecology of Freshwater Fish*, **2014**, 23, 360-372	2.1	14
69	Performance of salmon fishery portfolios across western North America. *Journal of Applied Ecology*, **2014**, 51, 1554-1563	5.8	45
68	Species- and community-level responses combine to drive phenology of lake phytoplankton. *Ecology*, **2013**, 94, 2188-94	4.6	17
67	Going with the Flow: Spatial Distributions of Juvenile Coho Salmon Track an Annually Shifting Mosaic of Water Temperature. *Ecosystems*, **2013**, 16, 1429-1441	3.9	54
66	Diel horizontal migration in streams: juvenile fish exploit spatial heterogeneity in thermal and trophic resources. *Ecology*, **2013**, 94, 2066-75	4.6	101

65	Depth variation in isotopic composition of benthic resources and assessment of sculpin feeding patterns in an oligotrophic Alaskan lake. *Aquatic Ecology*, **2013**, 47, 403-414	1.9	8
64	Association between geomorphic attributes of watersheds, water temperature, and salmon spawn timing in Alaskan streams. *Geomorphology*, **2013**, 185, 78-86	4.3	78
63	Body Condition Correlates with Instantaneous Growth in Stream-Dwelling Rainbow Trout and Arctic Grayling. *Transactions of the American Fisheries Society*, **2013**, 142, 747-755	1.7	13
62	Riding the crimson tide: mobile terrestrial consumers track phenological variation in spawning of an anadromous fish. *Biology Letters*, **2013**, 9, 20130048	3.6	91
61	Centennial-scale fluctuations and regional complexity characterize Pacific salmon population dynamics over the past five centuries. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 1750-5	11.5	43
60	Responses of Zooplankton Populations to Four Decades of Climate Warming in Lakes of Southwestern Alaska. *Ecosystems*, **2012**, 15, 1010-1026	3.9	37
59	A multi-proxy record of the Last Glacial Maximum and last 14,500 years of paleoenvironmental change at Lone Spruce Pond, southwestern Alaska. *Journal of Paleolimnology*, **2012**, 48, 9-26	2.1	24
58	Mysis in the Okanagan Lake food web: a time-series analysis of interaction strengths in an invaded plankton community. *Aquatic Ecology*, **2012**, 46, 215-227	1.9	8
57	Consequences of changing climate and geomorphology for bioenergetics of juvenile sockeye salmon in a shallow Alaskan lake. *Ecology of Freshwater Fish*, **2012**, 21, 349-362	2.1	13
56	Foraging and growth responses of stream-dwelling fishes to inter-annual variation in a pulsed resource subsidy. *Ecosphere*, **2012**, 3, art113	3.1	26
55	Temperature-associated population diversity in salmon confers benefits to mobile consumers. *Ecology*, **2011**, 92, 2073-84	4.6	54
54	Effects of simultaneous climate change and geomorphic evolution on thermal characteristics of a shallow Alaskan lake. *Limnology and Oceanography*, **2011**, 56, 193-205	4.8	12
53	Habitat structure determines resource use by zooplankton in temperate lakes. *Ecology Letters*, **2011**, 14, 364-72	10	75
52	Salmon-derived nutrients drive diatom beta-diversity patterns. *Freshwater Biology*, **2011**, 56, 292-301	3.1	8
51	Scale and the detection of climatic influences on the productivity of salmon populations. *Global Change Biology*, **2011**, 17, 2546-2558	11.4	32
50	Selection due to nonretention mortality in gillnet fisheries for salmon. *Evolutionary Applications*, **2011**, 4, 429-43	4.8	12
49	Spawning Habitat and Geography Influence Population Structure and Juvenile Migration Timing of Sockeye Salmon in the Wood River Lakes, Alaska. *Transactions of the American Fisheries Society*, **2011**, 140, 763-782	1.7	41
48	Spatial variation in timing of marine subsidies influences riparian phenology through a plant-pollinator mutualism. *Ecosphere*, **2011**, 2, art101	3.1	16

47	Marine-derived nutrients, bioturbation, and ecosystem metabolism: reconsidering the role of salmon in streams. *Ecology*, **2011**, 92, 373-85	4.6	76
46	Stream geomorphology regulates the effects on periphyton of ecosystem engineering and nutrient enrichment by Pacific salmon. *Freshwater Biology*, **2010**, 55, 2598-2611	3.1	31
45	Population diversity and the portfolio effect in an exploited species. *Nature*, **2010**, 465, 609-12	50.4	945
44	Spawning salmon and the phenology of emergence in stream insects. *Proceedings of the Royal Society B: Biological Sciences*, **2010**, 277, 1695-703	4.4	40
43	Synchronization and portfolio performance of threatened salmon. *Conservation Letters*, **2010**, 3, 340-348	6.9	116
42	Simultaneous quantification of aquatic ecosystem metabolism and reaeration using a Bayesian statistical model of oxygen dynamics. *Limnology and Oceanography*, **2010**, 55, 1047-1063	4.8	123
41	Disrupted seasonal clockwork in the population dynamics of a freshwater copepod by climate warming. *Limnology and Oceanography*, **2009**, 54, 2493-2505	4.8	37
40	Trophic ecology of Pacific salmon (Oncorhynchus spp.) in the ocean: a synthesis of stable isotope research. *Ecological Research*, **2009**, 24, 855-863	1.9	58
39	Large predators and biogeochemical hotspots: brown bear (Ursus arctos) predation on salmon alters nitrogen cycling in riparian soils. *Ecological Research*, **2009**, 24, 1125-1135	1.9	47
38	Unaccounted mortality in salmon fisheries: non-retention in gillnets and effects on estimates of spawners. *Journal of Applied Ecology*, **2009**, 46, 752-761	5.8	50
37	Ecological, landscape, and climatic regulation of sediment geochemistry in North American sockeye salmon nursery lakes: Insights for paleoecological salmon investigations. *Limnology and Oceanography*, **2009**, 54, 1733-1745	4.8	14
36	Biotic disturbance and benthic community dynamics in salmon-bearing streams. *Journal of Animal Ecology*, **2008**, 77, 275-84	4.7	68
35	Climate Change, Ecosystem Impacts, and Management for Pacific Salmon. *Fisheries*, **2008**, 33, 502-506	1.1	69
34	Asynchrony in population dynamics of sockeye salmon in southwest Alaska. *Oikos*, **2008**, 117, 1578-1586	4	62
33	Varying effects of anadromous sockeye salmon on the trophic ecology of two species of resident salmonids in southwest Alaska. *Freshwater Biology*, **2007**, 52, 1944-1956	3.1	76
32	Effects of Urbanization on the Dynamics of Organic Sediments in Temperate Lakes. *Ecosystems*, **2007**, 10, 1057-1068	3.9	30
31	Fish extinctions and ecosystem functioning in tropical ecosystems. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 5707-8	11.5	15
30	Aquatic insects play a minor role in dispersing salmon-derived nutrients into riparian forests in southwestern Alaska. *Canadian Journal of Fisheries and Aquatic Sciences*, **2006**, 63, 2543-2552	2.4	22

29	Empirical evaluation of observation scale effects in community time series. *Oikos*, **2006**, 113, 424-439	4	27
28	Coalescence in the Lake Washington story: Interaction strengths in a planktonic food web. *Limnology and Oceanography*, **2006**, 51, 2042-2051	4.8	50
27	EFFECTS OF CHANGING CLIMATE ON ZOOPLANKTON AND JUVENILE SOCKEYE SALMON GROWTH IN SOUTHWESTERN ALASKA. *Ecology*, **2005**, 86, 198-209	4.6	120
26	QUANTIFYING SPATIAL PATTERN WITH EVENNESS INDICES **2005**, 15, 507-520		29
25	Variation in spatial and temporal gradients in zooplankton spring development: the effect of climatic factors. *Freshwater Biology*, **2005**, 50, 1007-1021	3.1	28
24	MARINE-DERIVED NUTRIENTS, COMMERCIAL FISHERIES, AND PRODUCTION OF SALMON AND LAKE ALGAE IN ALASKA. *Ecology*, **2005**, 86, 3225-3231	4.6	80
23	Climatic effects on the phenology of lake processes. *Global Change Biology*, **2004**, 10, 1844-1856	11.4	290
22	Changes in the Spatial Distribution of Fishes in Lakes Along a Residential Development Gradient. *Ecosystems*, **2004**, 7, 98-106	3.9	81
21	CLIMATE CHANGE UNCOUPLES TROPHIC INTERACTIONS IN AN AQUATIC ECOSYSTEM. *Ecology*, **2004**, 85, 2100-2106	4.6	547
20	OPTICAL CHARACTERISTICS OF NATURAL WATERS PROTECT AMPHIBIANS FROM UV-B IN THE U.S. PACIFIC NORTHWEST: REPLY. *Ecology*, **2004**, 85, 1754-1759	4.6	2
19	Effects of climatic variability on the thermal properties of Lake Washington. *Limnology and Oceanography*, **2004**, 49, 256-270	4.8	75
18	Biocomplexity and fisheries sustainability. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 6564-8	11.5	649
17	DIEL VERTICAL MIGRATION BY JUVENILE SOCKEYE SALMON: EMPIRICAL EVIDENCE FOR THE ANTIPREDATION WINDOW. *Ecology*, **2003**, 84, 1713-1720	4.6	128
16	Pacific salmon and the ecology of coastal ecosystems. *Frontiers in Ecology and the Environment*, **2003**, 1, 31-37	5.5	224
15	The Role of Sharks and Longline Fisheries in a Pelagic Ecosystem of the Central Pacific. *Ecosystems*, **2002**, 5, 202-216	3.9	126
14	Pacific Salmon, Nutrients, and the Dynamics of Freshwater and Riparian Ecosystems. *Ecosystems*, **2002**, 5, 399-417	3.9	414
13	Habitat coupling in lake ecosystems. *Oikos*, **2002**, 98, 177-189	4	478
12	OPTICAL CHARACTERISTICS OF NATURAL WATERS PROTECT AMPHIBIANS FROM UV-B IN THE U.S. PACIFIC NORTHWEST. *Ecology*, **2002**, 83, 2951-2957	4.6	42

11	ALTERNATIVE FISHERIES AND THE PREDATION RATE OF YELLOWFIN TUNA IN THE EASTERN PACIFIC OCEAN **2002**, 12, 724-734		50
10	Environmental and algal forcing of Daphnia production dynamics. *Limnology and Oceanography*, **2002**, 47, 1477-1485	4.8	18
9	SHARKS AND TUNAS: FISHERIES IMPACTS ON PREDATORS WITH CONTRASTING LIFE HISTORIES **2002**, 12, 735-748		89
8	The Introduction of Nonnative Fish into Wilderness Lakes: Good Intentions, Conflicting Mandates, and Unintended Consequences. *Ecosystems*, **2001**, 4, 275-278	3.9	56
7	Alteration of Nutrient Cycles and Algal Production Resulting from Fish Introductions intoMountain Lakes. *Ecosystems*, **2001**, 4, 308-321	3.9	120
6	Association of amphibians with attenuation of ultraviolet-b radiation in montane ponds. *Oecologia*, **2001**, 128, 519-525	2.9	24
5	TROPHIC CASCADES, NUTRIENTS, AND LAKE PRODUCTIVITY: WHOLE-LAKE EXPERIMENTS. *Ecological Monographs*, **2001**, 71, 163-186	9	348
4	TROPHIC CASCADES, NUTRIENTS, AND LAKE PRODUCTIVITY: WHOLE-LAKE EXPERIMENTS **2001**, 71, 163		18
3	EFFECTS OF GRAZER COMMUNITY STRUCTURE ON PHYTOPLANKTON RESPONSE TO NUTRIENT PULSES. *Ecology*, **2000**, 81, 183-200	4.6	39
2	STOICHIOMETRY OF FISHES AND THEIR PREY: IMPLICATIONS FOR NUTRIENT RECYCLING. *Ecology*, **1997**, 78, 1816-1831	4.6	150
1	Evolution and connectivity influence the persistence and recovery of coral reefs under climate change in the Caribbean, Southwest Pacific, and Coral Triangle		1