

Jacques C Finlay

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124
papers

6,544
citations

48
h-index

78
g-index

129
ext. papers

7,552
ext. citations

7.4
avg, IF

6.1
L-index

#	Paper	IF	Citations
124	Linking water quality and well-being for improved assessment and valuation of ecosystem services. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 18619-24	11.5	291
123	Dams and Downstream Aquatic Biodiversity: Potential Food Web Consequences of Hydrologic and Geomorphic Change. <i>Environmental Management</i> , 1996 , 20, 887-95	3.1	241
122	Human influences on nitrogen removal in lakes. <i>Science</i> , 2013 , 342, 247-50	33.3	217
121	Stable-Carbon-Isotope Ratios of River Biota: Implications for Energy Flow in Lotic Food Webs. <i>Ecology</i> , 2001 , 82, 1052	4.6	211
120	A shift of thermokarst lakes from carbon sources to sinks during the Holocene epoch. <i>Nature</i> , 2014 , 511, 452-6	50.4	194
119	Effects of water velocity on algal carbon isotope ratios: Implications for river food web studies. <i>Limnology and Oceanography</i> , 1999 , 44, 1198-1203	4.8	194
118	Seasonal changes in the age and structure of dissolved organic carbon in Siberian rivers and streams. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	182
117	Contrasting nitrogen and phosphorus budgets in urban watersheds and implications for managing urban water pollution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 4177-4182	11.5	172
116	Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. <i>Environmental Research Letters</i> , 2016 , 11, 034014	6.2	165
115	The role of discharge variation in scaling of drainage area and food chain length in rivers. <i>Science</i> , 2010 , 330, 965-7	33.3	164
114	Social-ecological and technological factors moderate the value of urban nature. <i>Nature Sustainability</i> , 2019 , 2, 29-38	22.1	163
113	Controls of streamwater dissolved inorganic carbon dynamics in a forested watershed. <i>Biogeochemistry</i> , 2003 , 62, 231-252	3.8	155
112	Patterns and controls of lotic algal stable carbon isotope ratios. <i>Limnology and Oceanography</i> , 2004 , 49, 850-861	4.8	153
111	SPATIAL SCALES OF CARBON FLOW IN A RIVER FOOD WEB. <i>Ecology</i> , 2002 , 83, 1845-1859	4.6	148
110	Factors affecting the measurement of CDOM by remote sensing of optically complex inland waters. <i>Remote Sensing of Environment</i> , 2015 , 157, 199-215	13.2	147
109	Stable Isotope Tracing of Temporal and Spatial Variability in Organic Matter Sources to Freshwater Ecosystems. <i>Limnology and Oceanography</i> , 2013 , 58, 323-333	4.6	146
108	Comparison of Landsat 8 and Landsat 7 for regional measurements of CDOM and water clarity in lakes. <i>Remote Sensing of Environment</i> , 2016 , 185, 119-128	13.2	119

107	The interactive effects of excess reactive nitrogen and climate change on aquatic ecosystems and water resources of the United States. <i>Biogeochemistry</i> , 2013 , 114, 71-92	3.8	118
106	Snowmelt dominance of dissolved organic carbon in high-latitude watersheds: Implications for characterization and flux of river DOC. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a	4.9	114
105	Roles of Bryophytes in Stream Ecosystems. <i>Journal of the North American Benthological Society</i> , 1999 , 18, 151-184		114
104	Influence of stream size on ammonium and suspended particulate nitrogen processing. <i>Limnology and Oceanography</i> , 2001 , 46, 1-13	4.8	110
103	Contribution of wetlands to nitrate removal at the watershed scale. <i>Nature Geoscience</i> , 2018 , 11, 127-132	3.3	101
102	The problem of boundaries in defining ecosystems: A potential landmine for uniting geomorphology and ecology. <i>Geomorphology</i> , 2007 , 89, 111-126	4.3	90
101	CO ₂ and CH ₄ emissions from streams in a lake-rich landscape: Patterns, controls, and regional significance. <i>Global Biogeochemical Cycles</i> , 2014 , 28, 197-210	5.9	82
100	Stream size and human influences on ecosystem production in river networks. <i>Ecosphere</i> , 2011 , 2, art87	3.1	77
99	Introduced trout sever trophic connections in watersheds: consequences for a declining amphibian. <i>Ecology</i> , 2007 , 88, 2187-98	4.6	75
98	Sources and transfers of methylmercury in adjacent river and forest food webs. <i>Environmental Science & Technology</i> , 2012 , 46, 10957-64	10.3	72
97	Nitrogen loss from watersheds of interior Alaska underlain with discontinuous permafrost. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	69
96	A basal aquatic-terrestrial trophic link in rivers: algal subsidies via shore-dwelling grasshoppers. <i>Oecologia</i> , 2002 , 131, 261-268	2.9	69
95	Light-mediated thresholds in stream-water nutrient composition in a river network. <i>Ecology</i> , 2011 , 92, 140-50	4.6	68
94	STABLE-CARBON-ISOTOPE RATIOS OF RIVER BIOTA:IMPLICATIONS FOR ENERGY FLOW IN LOTIC FOOD WEBS. <i>Ecology</i> , 2001 , 82, 1052-1064	4.6	66
93	Increasing stoichiometric imbalance in North America's largest lake: Nitrification in Lake Superior. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	65
92	Grazer traits, competition, and carbon sources to a headwater-stream food web. <i>Ecology</i> , 2007 , 88, 391-401	4.1	64
91	Contrasting influences of stormflow and baseflow pathways on nitrogen and phosphorus export from an urban watershed. <i>Biogeochemistry</i> , 2014 , 121, 209-228	3.8	60
90	Isotopic evidence for in-lake production of accumulating nitrate in Lake Superior 2007 , 17, 2323-32		60

89	Factors influencing wood mobilization in streams. <i>Water Resources Research</i> , 2010 , 46,	5.4	59
88	Arctic shrub growth trajectories differ across soil moisture levels. <i>Global Change Biology</i> , 2017 , 23, 4294-4302	13.2	57
87	Effects of restoration and reflooding on soil denitrification in a leveed Midwestern floodplain 2007 , 17, 2365-76	3.1	56
86	Influence of dissolved organic carbon on methylmercury bioavailability across Minnesota stream ecosystems. <i>Environmental Science & Technology</i> , 2011 , 45, 5981-7	10.3	55
85	The stoichiometry of nitrogen and phosphorus spiralling in heterotrophic and autotrophic streams. <i>Freshwater Biology</i> , 2011 , 56, 424-436	3.1	54
84	Tracing energy flow in stream food webs using stable isotopes of hydrogen. <i>Freshwater Biology</i> , 2010 , 55, 941-951	3.1	54
83	Mercury bioaccumulation in a stream network. <i>Environmental Science & Technology</i> , 2009 , 43, 7016-20.3	2.3	53
82	Ebullitive methane emissions from oxygenated wetland streams. <i>Global Change Biology</i> , 2014 , 20, 3408-22.4	2.4	52
81	Subcanopy Solar Radiation model: Predicting solar radiation across a heavily vegetated landscape using LiDAR and GIS solar radiation models. <i>Remote Sensing of Environment</i> , 2014 , 154, 387-397	13.2	52
80	Carbon stable isotopes suggest that hippopotamus-vecored nutrients subsidize aquatic consumers in an East African river. <i>Ecosphere</i> , 2015 , 6, 1-11	3.1	50
79	Global meta-analysis for controlling factors on carbon stable isotope ratios of lotic periphyton. <i>Oecologia</i> , 2012 , 170, 541-9	2.9	50
78	Nitrogen transformations at the sediment-water interface across redox gradients in the Laurentian Great Lakes. <i>Hydrobiologia</i> , 2014 , 731, 95-108	2.4	49
77	Rates and controls of nitrification in a large oligotrophic lake. <i>Limnology and Oceanography</i> , 2013 , 58, 276-286	4.8	48
76	Metapopulation stability in branching river networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E5963-E5969	11.5	45
75	Long-term effects of PO ₄ fertilization on the distribution of bryophytes in an arctic river. <i>Freshwater Biology</i> , 1994 , 32, 445-454	3.1	44
74	Trees and Streets as Drivers of Urban Stormwater Nutrient Pollution. <i>Environmental Science & Technology</i> , 2017 , 51, 9569-9579	10.3	43
73	Variation in terrestrial and aquatic sources of methylmercury in stream predators as revealed by stable mercury isotopes. <i>Environmental Science & Technology</i> , 2014 , 48, 10128-35	10.3	42
72	Food chains in freshwaters. <i>Annals of the New York Academy of Sciences</i> , 2009 , 1162, 187-220	6.5	42

71	Influence of subsurface drainage on quantity and quality of dissolved organic matter export from agricultural landscapes. <i>Journal of Geophysical Research</i> , 2011 , 116,		39
70	Patterns of hydrologic control over stream water total nitrogen to total phosphorus ratios. <i>Biogeochemistry</i> , 2010 , 99, 15-30	3.8	37
69	ERADICATION OF INVASIVE TAMARIX RAMOSISSIMA ALONG A DESERT STREAM INCREASES NATIVE FISH DENSITY 2005 , 15, 2072-2083		35
68	Contribution of Leaf Litter to Nutrient Export during Winter Months in an Urban Residential Watershed. <i>Environmental Science & Technology</i> , 2017 , 51, 3138-3147	10.3	34
67	Color, chlorophyll a, and suspended solids effects on Secchi depth in lakes: implications for trophic state assessment. <i>Ecological Applications</i> , 2019 , 29, e01871	4.9	32
66	Decomposition of tree leaf litter on pavement: implications for urban water quality. <i>Urban Ecosystems</i> , 2014 , 17, 369-385	2.8	32
65	A high-resolution time series of oxygen isotopes from the Kolyma River: Implications for the seasonal dynamics of discharge and basin-scale water use. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	32
64	Biological Responses to Fertilization of Oksrukuyik Creek, a Tundra Stream. <i>Journal of the North American Benthological Society</i> , 1998 , 17, 190-209		32
63	In situ production of methylmercury within a stream channel in northern California. <i>Environmental Science & Technology</i> , 2010 , 44, 6998-7004	10.3	31
62	Effects of the hippopotamus on the chemistry and ecology of a changing watershed. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E5028-E5037	11.5	31
61	Relative importance of breakage and decay as processes depleting large wood from streams. <i>Geomorphology</i> , 2013 , 190, 40-47	4.3	29
60	Selective feeding determines patterns of nutrient release by stream invertebrates. <i>Freshwater Science</i> , 2014 , 33, 1093-1107	2	29
59	Controls on production of bryophytes in an arctic tundra stream. <i>Freshwater Biology</i> , 1994 , 32, 455-466	3.1	29
58	Large eddy simulation of turbulence and solute transport in a forested headwater stream. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016 , 121, 146-167	3.8	28
57	Large differences in potential denitrification and sediment microbial communities across the Laurentian great lakes. <i>Biogeochemistry</i> , 2016 , 128, 353-368	3.8	27
56	Photodegradation of methylmercury in stream ecosystems. <i>Limnology and Oceanography</i> , 2013 , 58, 13-22	2.8	27
55	Epilithic chlorophyll a, photosynthesis, and respiration in control and fertilized reaches of a tundra stream. <i>Hydrobiologia</i> , 1992 , 240, 121-131	2.4	26
54	It Is Not Easy Being Green: Recognizing Unintended Consequences of Green Stormwater Infrastructure. <i>Water (Switzerland)</i> , 2020 , 12, 522	3	26

53	Contextualizing Wetlands Within a River Network to Assess Nitrate Removal and Inform Watershed Management. <i>Water Resources Research</i> , 2018 , 54, 1312-1337	5.4	24
52	Limitations on using CDOM as a proxy for DOC in temperate lakes. <i>Water Research</i> , 2018 , 144, 719-727	12.5	24
51	Do wetlands enhance downstream denitrification in agricultural landscapes?. <i>Ecosphere</i> , 2016 , 7, e015163.1		23
50	Comparison of Epilithic Algal and Bryophyte Metabolism in an Arctic Tundra Stream, Alaska. <i>Journal of the North American Benthological Society</i> , 1998 , 17, 210-227		23
49	An Ecological Network Analysis of nitrogen cycling in the Laurentian Great Lakes. <i>Ecological Modelling</i> , 2014 , 293, 150-160	3	20
48	Uniform shrub growth response to June temperature across the North Slope of Alaska. <i>Environmental Research Letters</i> , 2018 , 13, 044013	6.2	20
47	Unprocessed Atmospheric Nitrate in Waters of the Northern Forest Region in the U.S. and Canada. <i>Environmental Science & Technology</i> , 2019 , 53, 3620-3633	10.3	19
46	Nitrogen cycling in a freshwater estuary. <i>Biogeochemistry</i> , 2016 , 127, 199-216	3.8	19
45	Quantity-activity relationship of denitrifying bacteria and environmental scaling in streams of a forested watershed. <i>Journal of Geophysical Research</i> , 2006 , 111,		19
44	Prediction of Photochemically Produced Reactive Intermediates in Surface Waters via Satellite Remote Sensing. <i>Environmental Science & Technology</i> , 2020 , 54, 6671-6681	10.3	18
43	Effects of stream water chemistry and tree species on release and methylation of mercury during litter decomposition. <i>Environmental Science & Technology</i> , 2008 , 42, 8692-7	10.3	18
42	Phosphorus Transport in Intensively Managed Watersheds. <i>Water Resources Research</i> , 2019 , 55, 9148-9174	3.4	17
41	Comparison of morphological and biological control of exchange with transient storage zones in a field-scale flume. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		17
40	Effects of desiccation and temperature/irradiance on the metabolism of 2 arctic stream bryophyte taxa. <i>Journal of the North American Benthological Society</i> , 2000 , 19, 263-273		17
39	Biogeochemical processes in high-latitude lakes and rivers 2008 , 137-156		17
38	Regional measurements and spatial/temporal analysis of CDOM in 10,000+ optically variable Minnesota lakes using Landsat 8 imagery. <i>Science of the Total Environment</i> , 2020 , 724, 138141	10.2	16
37	Controls of Methylmercury Bioaccumulation in Forest Floor Food Webs. <i>Environmental Science & Technology</i> , 2019 , 53, 2434-2440	10.3	15
36	Winter feeding, growth and condition of brown trout <i>Salmo trutta</i> in a groundwater-dominated stream. <i>Journal of Freshwater Ecology</i> , 2014 , 29, 187-200	1.4	15

35	Organic Matter Dynamics in the Kuparuk River, a Tundra River in Alaska, USA. <i>Journal of the North American Benthological Society</i> , 1997 , 16, 18-23		15
34	Spatial and Temporal Variation of Ammonium in Lake Superior. <i>Journal of Great Lakes Research</i> , 2007 , 33, 581	3	15
33	Estimating and scaling stream ecosystem metabolism along channels with heterogeneous substrate. <i>Ecohydrology</i> , 2013 , 6, 679-688	2.5	14
32	Nitrogen and carbon uptake dynamics in Lake Superior. <i>Journal of Geophysical Research</i> , 2008 , 113,		14
31	Flow-related dynamics in suspended algal biomass and its contribution to suspended particulate matter in an agricultural river network of the Minnesota River Basin, USA. <i>Hydrobiologia</i> , 2017 , 785, 127-147	3.4	13
30	Predator-driven nutrient recycling in California stream ecosystems. <i>PLoS ONE</i> , 2013 , 8, e58542	3.7	13
29	Isotopic composition of nitrogen in suspended particulate matter of Lake Superior: implications for nutrient cycling and organic matter transformation. <i>Biogeochemistry</i> , 2011 , 103, 1-14	3.8	11
28	Internal loading in stormwater ponds as a phosphorus source to downstream waters. <i>Limnology and Oceanography Letters</i> , 2020 , 5, 322-330	7.9	10
27	Environmental controls of wood entrapment in upper Midwestern streams. <i>Hydrological Processes</i> , 2011 , 25, 593-602	3.3	10
26	Fertilizer, landscape features and climate regulate phosphorus retention and river export in diverse Midwestern watersheds. <i>Biogeochemistry</i> , 2019 , 146, 293-309	3.8	10
25	Comment on Climate and agricultural land use change impacts on streamflow in the upper midwestern United States by Satish C. Gupta et al.. <i>Water Resources Research</i> , 2016 , 52, 7536-7539	5.4	9
24	Measurement and Modeling of Denitrification in Sand-Bed Streams under Various Land Uses. <i>Journal of Environmental Quality</i> , 2014 , 43, 1013-23	3.4	8
23	Iron influence on dissolved color in lakes of the Upper Great Lakes States. <i>PLoS ONE</i> , 2019 , 14, e0211979	3.7	7
22	Bioavailability of dissolved organic carbon across a hillslope chronosequence in the Kuparuk River region, Alaska. <i>Soil Biology and Biochemistry</i> , 2014 , 79, 25-33	7.5	7
21	Brown trout (<i>Salmo trutta</i>) growth and condition along a winter thermal gradient in temperate streams. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2017 , 74, 56-64	2.4	6
20	Road dust biases NDVI and alters edaphic properties in Alaskan arctic tundra. <i>Scientific Reports</i> , 2019 , 9, 214	4.9	6
19	Partial migration alters population ecology and food chain length: evidence from a salmonid fish. <i>Ecosphere</i> , 2020 , 11, e03044	3.1	6
18	Integrated assessment modeling reveals near-channel management as cost-effective to improve water quality in agricultural watersheds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	6

17	Stable Isotopes in Stream Food Webs 2017 , 3-20		5
16	The Power of Environmental Observatories for Advancing Multidisciplinary Research, Outreach, and Decision Support: The Case of the Minnesota River Basin. <i>Water Resources Research</i> , 2019 , 55, 3576-3592	5.4	5
15	Winter diet of brown trout <i>Salmo trutta</i> in groundwater-dominated streams: influence of environmental factors on spatial and temporal variation. <i>Journal of Fish Biology</i> , 2016 , 89, 2449-2464	1.9	4
14	The effects of infiltration-based stormwater best management practices on the hydrology and phosphorus budget of a eutrophic urban lake. <i>Lake and Reservoir Management</i> , 2019 , 35, 38-50	1.3	4
13	Combined use of radiocarbon and stable carbon isotopes for the source mixing model in a stream food web. <i>Limnology and Oceanography</i> , 2020 , 65, 2688-2696	4.8	3
12	Quantifying cryptic function loss during community disassembly. <i>Journal of Applied Ecology</i> , 2019 , 56, 2710-2722	5.8	3
11	Detecting characteristic hydrological and biogeochemical signals through nonparametric scatter plot analysis of normalized data. <i>Water Resources Research</i> , 2008 , 44,	5.4	2
10	Co-limitation by N and P Characterizes Phytoplankton Communities Across Nutrient Availability and Land Use. <i>Ecosystems</i> , 2020 , 23, 1121-1137	3.9	2
9	Vegetation trajectories of restored agricultural wetlands following sediment removal. <i>Restoration Ecology</i> , 2020 , 28, 612-622	3.1	2
8	Global dataset for carbon and nitrogen stable isotope ratios of lotic periphyton. <i>Ecological Research</i> , 2018 , 33, 1089-1089	1.9	2
7	STABLE-CARBON-ISOTOPE RATIOS OF RIVER BIOTA:IMPLICATIONS FOR ENERGY FLOW IN LOTIC FOOD WEBS 2001 , 82, 1052		1
6	Longitudinal patterns and linkages in benthic fine particulate organic matter composition, respiration, and nutrient uptake. <i>Limnology and Oceanography</i> , 2021 , 66, 2684-2696	4.8	1
5	Superlinear scaling of riverine biogeochemical function with watershed size.. <i>Nature Communications</i> , 2022 , 13, 1230	17.4	1
4	Hydrologic processes regulate nutrient retention in stormwater detention ponds.. <i>Science of the Total Environment</i> , 2022 , 153722	10.2	0
3	Measurement and Modeling of Denitrification in Sand-Bed Streams under Various Land Uses 2014 , 43, 1013		0
2	Long-term water color and flow trends in the Mississippi River Headwaters, 1944-2010. <i>Limnology and Oceanography</i> , 2021 , 66, 3552-3567	4.8	0
1	Do wetlands enhance downstream denitrification in agricultural landscapes? 2016 , 7, e01516		0