

# Nelson G Hairston Jr

## List of Publications by Citations

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96  
papers

10,554  
citations

41  
h-index

102  
g-index

110  
ext. papers

11,655  
ext. citations

7.1  
avg, IF

6.04  
L-index

#	Paper	IF	Citations
96	Community Structure, Population Control, and Competition. <i>American Naturalist</i> , <b>1960</b> , 94, 421-425	3.7	2408
95	Rapid evolution drives ecological dynamics in a predator-prey system. <i>Nature</i> , <b>2003</b> , 424, 303-6	50.4	748
94	Rapid evolution and the convergence of ecological and evolutionary time. <i>Ecology Letters</i> , <b>2005</b> , 8, 1114-1127	11.27	651
93	Ecosystem size determines food-chain length in lakes. <i>Nature</i> , <b>2000</b> , 405, 1047-9	50.4	499
92	Cause-Effect Relationships in Energy Flow, Trophic Structure, and Interspecific Interactions. <i>American Naturalist</i> , <b>1993</b> , 142, 379-411	3.7	408
91	MEETING ECOLOGICAL AND SOCIETAL NEEDS FOR FRESHWATER <b>2002</b> , 12, 1247-1260		360
90	Role of Overlapping Generations in Maintaining Genetic Variation in a Fluctuating Environment. <i>American Naturalist</i> , <b>1994</b> , 143, 403-417	3.7	311
89	Rapid evolution revealed by dormant eggs. <i>Nature</i> , <b>1999</b> , 401, 446-446	50.4	290
88	Crossing the hopf bifurcation in a live predator-prey system. <i>Science</i> , <b>2000</b> , 290, 1358-60	33.3	289
87	Eco-evolutionary conservation biology: contemporary evolution and the dynamics of persistence. <i>Functional Ecology</i> , <b>2007</b> , 21, 444-454	5.6	276
86	Zooplankton egg banks as biotic reservoirs in changing environments. <i>Limnology and Oceanography</i> , <b>1996</b> , 41, 1087-1092	4.8	269
85	Age and Survivorship of Diapausing Eggs in a Sediment Egg Bank. <i>Ecology</i> , <b>1995</b> , 76, 1706-1711	4.6	255
84	Linking genes to communities and ecosystems: Daphnia as an ecogenomic model. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2012</b> , 279, 1873-82	4.4	197
83	Rate of evolution slowed by a dormant propagule pool. <i>Nature</i> , <b>1988</b> , 336, 239-242	50.4	197
82	Does rapid evolution matter? Measuring the rate of contemporary evolution and its impacts on ecological dynamics. <i>Ecology Letters</i> , <b>2011</b> , 14, 603-14	10	184
81	Cryptic population dynamics: rapid evolution masks trophic interactions. <i>PLoS Biology</i> , <b>2007</b> , 5, e235	9.7	169
80	Reduction of adaptive genetic diversity radically alters eco-evolutionary community dynamics. <i>Ecology Letters</i> , <b>2010</b> , 13, 989-97	10	162

79	The Timing of Copepod Diapause as an Evolutionarily Stable Strategy. <i>American Naturalist</i> , <b>1984</b> , 123, 733-751	3.7	150
78	Evolutionary trade-off between defence against grazing and competitive ability in a simple unicellular alga, <i>Chlorella vulgaris</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2004</b> , 271, 1947-1953	4.4	141
77	FLUCTUATING SELECTION AND RESPONSE IN A POPULATION OF FRESHWATER COPEPODS. <i>Evolution; International Journal of Organic Evolution</i> , <b>1990</b> , 44, 1796-1805	3.8	129
76	Highly unsaturated fatty acids in nature: what we know and what we need to learn. <i>Oikos</i> , <b>2016</b> , 125, 749-760	4	124
75	The functional genomics of an eco-evolutionary feedback loop: linking gene expression, trait evolution, and community dynamics. <i>Ecology Letters</i> , <b>2012</b> , 15, 492-501	10	120
74	Can Population Genetics Adapt to Rapid Evolution?. <i>Trends in Genetics</i> , <b>2016</b> , 32, 408-418	8.5	108
73	Evolution as a critical component of plankton dynamics. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2003</b> , 270, 1015-22	4.4	107
72	Population differences in the timing of diapause: adaptation in a spatially heterogeneous environment. <i>Oecologia</i> , <b>1984</b> , 61, 42-48	2.9	99
71	The effect of diapause emergence on the seasonal dynamics of a zooplankton assemblage. <i>Freshwater Biology</i> , <b>2000</b> , 45, 133-145	3.1	97
70	The adaptive significance of color polymorphism in two species of <i>Diatomus</i> (Copepoda)1. <i>Limnology and Oceanography</i> , <b>1979</b> , 24, 15-37	4.8	95
69	Prey evolution on the time scale of predator-prey dynamics revealed by allele-specific quantitative PCR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 10690-5	11.5	84
68	Rapid contemporary evolution and clonal food web dynamics. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 1579-91	5.8	83
67	Experimental evidence for changes in submersed macrophyte species composition caused by the herbivore <i>Acentria ephemerella</i> (Lepidoptera). <i>Oecologia</i> , <b>2001</b> , 127, 105-114	2.9	80
66	Temporal dispersal: ecological and evolutionary aspects of zooplankton egg banks and the role of sediment mixing. <i>Integrative and Comparative Biology</i> , <b>2002</b> , 42, 481-91	2.8	79
65	Fish Size, Visual Resolution, and Prey Selectivity. <i>Ecology</i> , <b>1985</b> , 66, 1729-1735	4.6	73
64	Predator-prey cycles in an aquatic microcosm: testing hypotheses of mechanism. <i>Journal of Animal Ecology</i> , <b>2002</b> , 71, 802-815	4.7	71
63	Distribution of crustacean diapause: micro- and macroevolutionary pattern and process. <i>Hydrobiologia</i> , <b>1996</b> , 320, 27-44	2.4	69
62	A newly discovered role of evolution in previously published consumer-resource dynamics. <i>Ecology Letters</i> , <b>2014</b> , 17, 915-23	10	67

61	The causes and consequences of sex-specific mortality in a freshwater copepod1. <i>Limnology and Oceanography</i> , <b>1983</b> , 28, 935-947	4.8	66
60	Population biology of a failed invasion: Paleolimnology of <i>Daphnia exilis</i> in upstate New York. <i>Limnology and Oceanography</i> , <b>1999</b> , 44, 477-486	4.8	52
59	Cryptic eco-evolutionary dynamics. <i>Annals of the New York Academy of Sciences</i> , <b>2015</b> , 1360, 120-44	6.5	50
58	Phenotypic Variation in a Zooplankton Egg Bank. <i>Ecology</i> , <b>1996</b> , 77, 2382-2392	4.6	43
57	What genomic data can reveal about eco-evolutionary dynamics. <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 9-15	12.3	43
56	Copepod reproductive strategies: life-history theory, phylogenetic pattern and invasion of inland waters. <i>Journal of Marine Systems</i> , <b>1998</b> , 15, 23-34	2.7	42
55	A Field Test for the Cues of Disapause in a Freshwater Copepod. <i>Ecology</i> , <b>1990</b> , 71, 2218-2223	4.6	37
54	Paleogenetic evidence for a past invasion of Onondaga Lake, New York, by exotic <i>Daphnia curvirostris</i> using mtDNA from dormant eggs. <i>Limnology and Oceanography</i> , <b>2000</b> , 45, 1409-1414	4.8	35
53	Growth-Related Constraints on Diet Selection by Sunfish. <i>Ecology</i> , <b>1992</b> , 73, 429-437	4.6	35
52	Diapause dynamics of two diaptomid copepod species in a large lake. <i>Hydrobiologia</i> , <b>1994</b> , 292-293, 209-218	3.3	33
51	The relationship between pigmentation and reproduction in two species of <i>Diaptomus</i> (Copepoda)1. <i>Limnology and Oceanography</i> , <b>1979</b> , 24, 38-44	4.8	32
50	THE ROLES OF FLUCTUATING SELECTION AND LONG-TERM DIAPAUSE IN MICROEVOLUTION OF DIAPAUSE TIMING IN A FRESHWATER COPEPOD. <i>Evolution; International Journal of Organic Evolution</i> , <b>1999</b> , 53, 111-122	3.8	31
49	Metagenomic identification, seasonal dynamics, and potential transmission mechanisms of a <i>Daphnia</i> -associated single-stranded DNA virus in two temperate lakes. <i>Limnology and Oceanography</i> , <b>2013</b> , 58, 1605-1620	4.8	28
48	Obtaining life table data from cohort analyses: A critique of current methods1. <i>Limnology and Oceanography</i> , <b>1985</b> , 30, 886-893	4.8	28
47	Size-related Change in the Visual Resolution of Sunfish ( <i>Lepomis</i> spp.). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , <b>1994</b> , 51, 2017-2026	2.4	27
46	PARTIAL PHOTOPERIODIC CONTROL OF DIAPAUSE IN THREE POPULATIONS OF THE FRESHWATER COPEPODDIAPTOMUS SANGUINEUS. <i>Biological Bulletin</i> , <b>1986</b> , 171, 135-142	1.5	27
45	Aquatic and terrestrial resources are not nutritionally reciprocal for consumers. <i>Functional Ecology</i> , <b>2019</b> , 33, 2042-2052	5.6	24
44	Modes and mechanisms of a <i>Daphnia</i> invasion. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2012</b> , 279, 2936-44	4.4	24

43	Behavioral Responses of the Endemic Shrimp <i>Halocaridina rubra</i> (Malacostraca: Atyidae) to an Introduced Fish, <i>Gambusia affinis</i> (Actinopterygii: Poeciliidae) and Implications for the Trophic Structure of Hawaiian Anchialine Ponds. <i>Pacific Science</i> , <b>2009</b> , 63, 27-37	0.9	24
42	Particle transport by benthic invertebrates: its role in egg bank dynamics. <i>Hydrobiologia</i> , <b>1996</b> , 332, 63-70.	0.4	24
41	Ecological and Evolutionary Dynamics of Experimental Plankton Communities. <i>Advances in Ecological Research</i> , <b>2005</b> , 37, 221-243	4.6	23
40	Consumer-resource dynamics is an eco-evolutionary process in a natural plankton community. <i>Nature Ecology and Evolution</i> , <b>2019</b> , 3, 1351-1358	12.3	22
39	Food limitation in a wild cyclopoid copepod population: direct and indirect life history responses. <i>Oecologia</i> , <b>1998</b> , 115, 320-330	2.9	22
38	Experimental blooms of the cyanobacterium <i>Gloeotrichia echinulata</i> increase phytoplankton biomass, richness and diversity in an oligotrophic lake. <i>Journal of Plankton Research</i> , <b>2014</b> , 36, 364-377	2.2	21
37	SPECIES-SPECIFIC DAPHNIA PHENOTYPES: A HISTORY OF INDUSTRIAL POLLUTION AND PELAGIC ECOSYSTEM RESPONSE. <i>Ecology</i> , <b>2005</b> , 86, 1669-1678	4.6	21
36	Eco-Evolutionary Dynamics in a Three-Species Food Web with Intraguild Predation. <i>Advances in Ecological Research</i> , <b>2014</b> , 50, 41-73	4.6	20
35	How mobile are fish populations? Diel movement, population turnover, and site fidelity in suckers. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , <b>2013</b> , 70, 666-677	2.4	20
34	Predator-dependent diel migration by <i>Halocaridina rubra</i> shrimp (Malacostraca: Atyidae) in Hawaiian anchialine pools. <i>Aquatic Ecology</i> , <b>2011</b> , 45, 35-41	1.9	20
33	Daphnia Paleogenetics and Environmental Change: Deconstructing the Evolution of Plasticity. <i>International Review of Hydrobiology</i> , <b>2008</b> , 93, 578-592	2.3	18
32	Interannual variation in seasonal predation: Its origin and ecological importance. <i>Limnology and Oceanography</i> , <b>1988</b> , 33, 1245-1253	4.8	18
31	Mixotrophy and the toxicity of <i>Ochromonas</i> in pelagic food webs. <i>Freshwater Biology</i> , <b>2012</b> , 57, 2262-2271	3.1	17
30	Decline of the invasive submersed macrophyte <i>Myriophyllum spicatum</i> (Haloragaceae) associated with herbivory by larvae of <i>Acentria ephemerella</i> (Lepidoptera). <i>Aquatic Ecology</i> , <b>1997</b> , 31, 273-282	1.9	17
29	An analysis of the feeding behavior of <i>Daphnia pulex</i> . <i>Limnology and Oceanography</i> , <b>1985</b> , 30, 862-870	4.8	17
28	The influence of resource limitation on the allelopathic effect of <i>Chlamydomonas reinhardtii</i> on other unicellular freshwater planktonic organisms. <i>Journal of Plankton Research</i> , <b>2013</b> , 35, 1339-1344	2.2	16
27	Environmental variability and the persistence of multiple emergence strategies. <i>Bulletin of Mathematical Biology</i> , <b>1992</b> , 54, 313-334	2.1	16
26	A method for distinguishing subitaneous and diapausing eggs in preserved samples of the Calanoid copepod genus <i>Diaptomus</i> . <i>Limnology and Oceanography</i> , <b>1990</b> , 35, 763-767	4.8	14

25	Indirect bottom-up control of consumer-resource dynamics: Resource-driven algal quality alters grazer numerical response. <i>Limnology and Oceanography</i> , <b>2013</b> , 58, 827-838	4.8	11
24	Is Mobility a Fixed Trait? Summer Movement Patterns of Catostomids using PIT Telemetry. <i>Transactions of the American Fisheries Society</i> , <b>2014</b> , 143, 1098-1111	1.7	10
23	A shady phytoplankton paradox: when phytoplankton increases under low light. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2018</b> , 285,	4.4	9
22	Rapid evolution with generation overlap: the double-edged effect of dormancy. <i>Theoretical Ecology</i> , <b>2019</b> , 12, 179-195	1.6	8
21	Fasting or fear: disentangling the roles of predation risk and food deprivation in the nitrogen metabolism of consumers. <i>Ecology</i> , <b>2018</b> , 99, 681-689	4.6	8
20	On the diel variation of copepod pigmentation. <i>Limnology and Oceanography</i> , <b>1980</b> , 25, 742-747	4.8	8
19	MEETING ECOLOGICAL AND SOCIETAL NEEDS FOR FRESHWATER <b>2002</b> , 12, 1247		7
18	Perspective on prospective methods for obtaining life table data1. <i>Limnology and Oceanography</i> , <b>1987</b> , 32, 517-520	4.8	6
17	Trophic state mediates the effects of a large colonial cyanobacterium on phytoplankton dynamics. <i>Fundamental and Applied Limnology</i> , <b>2014</b> , 184, 247-260	1.9	5
16	Daphnia grazing, the clear water phase, and implications of minerogenic particles in Onondaga Lake. <i>Inland Waters</i> , <b>2015</b> , 5, 317-330	2.4	5
15	Consumer movement dynamics as hidden drivers of stream habitat structure: suckers as ecosystem engineers on the night shift. <i>Oikos</i> , <b>2020</b> , 129, 194-208	4	5
14	Problems with perception of zooplankton research by colleagues outside aquatic sciences. <i>Limnology and Oceanography</i> , <b>1990</b> , 35, 1214-1216	4.8	3
13	Fitness, Survival, and Reproduction. <i>Systematic Zoology</i> , <b>1979</b> , 28, 392		3
12	Reversed evolution of grazer resistance to cyanobacteria. <i>Nature Communications</i> , <b>2021</b> , 12, 1945	17.4	3
11	Dissolved phosphorus concentrations in Cayuga Lake system and differences from two analytical protocols. <i>Lake and Reservoir Management</i> , <b>2016</b> , 32, 392-401	1.3	2
10	The Edmondson Egg Ratio Method: An Elegant Approach to Obtaining Birth and Death Rates for Field Populations. <i>Bulletin of the Ecological Society of America</i> , <b>2015</b> , 96, 215-217	0.7	1
9	Ecology: mechanisms for consumer diversity. <i>Nature</i> , <b>2006</b> , 439, E1-2; discussion E2	50.4	1
8	MEETING ECOLOGICAL AND SOCIETAL NEEDS FOR FRESHWATER <b>2002</b> , 12, 1247		1

7	A unified framework for herbivore-to-producer biomass ratio reveals the relative influence of four ecological factors. <i>Communications Biology</i> , <b>2021</b> , 4, 49	6.7	1
6	Eco-Evolutionary Dynamics in Freshwater Systems <b>2021</b> ,		1
5	What Causes Harmful Algal Blooms? A Case Study of Causal Attributions and Conflict in a Lakeshore Community.. <i>Environmental Management</i> , <b>2022</b> , 69, 588	3.1	0
4	A.C. REDFIELD LIFETIME ACHIEVEMENT AWARD TO Z. MACIEJ GLIWICZ AND WINFRIED LAMPERT. <i>Limnology and Oceanography Bulletin</i> , <b>2012</b> , 21, 62-63	0.9	
3	THE LEGACY OF JAMES G. NEEDHAM: A CENTURY OF LIMNOLOGY AT CORNELL UNIVERSITY AND THE FIRST COURSE ON LIMNOLOGY IN THE AMERICAS. <i>Limnology and Oceanography Bulletin</i> , <b>2009</b> , 18, 30-32	0.9	
2	Planktonic biodiversity: Scaling up and down. <i>Limnology and Oceanography</i> , <b>2004</b> , 49, 1225-1228	4.8	
1	Egg Banks, Bet-Hedging and Resurrection Ecology <b>2021</b> ,		