

# Peter A Abrams

## List of Publications by Year in descending order

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147  
papers

13,357  
citations

22099

59  
h-index

23472

111  
g-index

150  
all docs

150  
docs citations

150  
times ranked

9045  
citing authors

#	ARTICLE	IF	CITATIONS
1	The nature of predation: prey dependent, ratio dependent or neither?. Trends in Ecology and Evolution, 2000, 15, 337-341.	4.2	620
2	The interaction between predation and competition: a review and synthesis. Ecology Letters, 2002, 5, 302-315.	3.0	596
3	The Theory of Limiting Similarity. Annual Review of Ecology, Evolution, and Systematics, 1983, 14, 359-376.	6.7	457
4	Eco-evolutionary dynamics of communities and ecosystems. Functional Ecology, 2007, 21, 465-477.	1.7	450
5	Implications of Dynamically Variable Traits for Identifying, Classifying, and Measuring Direct and Indirect Effects in Ecological Communities. American Naturalist, 1995, 146, 112-134.	1.0	433
6	REVISITING THE CLASSICS: CONSIDERING NONCONSUMPTIVE EFFECTS IN TEXTBOOK EXAMPLES OF PREDATOR-PREY INTERACTIONS. Ecology, 2008, 89, 2416-2425.	1.5	401
7	The Effect of Flexible Growth Rates on Optimal Sizes and Development Times in a Seasonal Environment. American Naturalist, 1996, 147, 381-395.	1.0	384
8	Monotonic or Unimodal Diversity-Productivity Gradients: What Does Competition Theory Predict?. Ecology, 1995, 76, 2019-2027.	1.5	371
9	Evolutionarily unstable fitness maxima and stable fitness minima of continuous traits. Evolutionary Ecology, 1993, 7, 465-487.	0.5	343
10	Foraging Time Optimization and Interactions in Food Webs. American Naturalist, 1984, 124, 80-96.	1.0	297
11	Interpreting the von Bertalanffy model of somatic growth in fishes: the cost of reproduction. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 1625-1631.	1.2	287
12	Disruptive selection and then what?. Trends in Ecology and Evolution, 2006, 21, 238-245.	4.2	269
13	Functional Responses of Optimal Foragers. American Naturalist, 1982, 120, 382-390.	1.0	268
14	Positive Indirect Effects Between Prey Species that Share Predators. Ecology, 1996, 77, 610-616.	1.5	247
15	Some Comments on Measuring Niche Overlap. Ecology, 1980, 61, 44-49.	1.5	241
16	When does greater mortality increase population size? The long history and diverse mechanisms underlying the hydra effect. Ecology Letters, 2009, 12, 462-474.	3.0	228
17	Effect of Increased Productivity on the Abundances of Trophic Levels. American Naturalist, 1993, 141, 351-371.	1.0	219
18	Modelling the adaptive dynamics of traits involved in inter- and intraspecific interactions: An assessment of three methods. Ecology Letters, 2001, 4, 166-175.	3.0	209

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19	Life History and the Relationship Between Food Availability and Foraging Effort. <i>Ecology</i> , 1991, 72, 1242-1252.	1.5	203
20	The Fallacies of "Ratio-Dependent" Predation. <i>Ecology</i> , 1994, 75, 1842-1850.	1.5	192
21	Invulnerable Prey and the Paradox of Enrichment. <i>Ecology</i> , 1996, 77, 1125-1133.	1.5	191
22	Predators that Benefit Prey and Prey that Harm Predators: Unusual Effects of Interacting Foraging Adaptation. <i>American Naturalist</i> , 1992, 140, 573-600.	1.0	185
23	APPARENT COMPETITION OR APPARENT MUTUALISM? SHARED PREDATION WHEN POPULATIONS CYCLE. <i>Ecology</i> , 1998, 79, 201-212.	1.5	176
24	Landscape scale, heterogeneity, and the viability of Serengeti grazers. <i>Ecology Letters</i> , 2005, 8, 328-335.	3.0	172
25	Character displacement and niche shift analyzed using consumer-resource models of competition. <i>Theoretical Population Biology</i> , 1986, 29, 107-160.	0.5	166
26	On classifying interactions between populations. <i>Oecologia</i> , 1987, 73, 272-281.	0.9	156
27	Limiting similarity and the form of the competition coefficient. <i>Theoretical Population Biology</i> , 1975, 8, 356-375.	0.5	133
28	The Effects of Enrichment of Three-Species Food Chains with Nonlinear Functional Responses. <i>Ecology</i> , 1994, 75, 1118-1130.	1.5	129
29	Possible indirect interactions between transient and resident killer whales: implications for the evolution of foraging specializations in the genus <i>Orcinus</i> . <i>Oecologia</i> , 1992, 89, 125-132.	0.9	128
30	Why Predation Rate Should Not be Proportional to Predator Density. <i>Ecology</i> , 1993, 74, 726-733.	1.5	125
31	The Effects of Adaptive Behavior on the Type-2 Functional Response. <i>Ecology</i> , 1990, 71, 877-885.	1.5	124
32	Biphasic growth in fish I: Theoretical foundations. <i>Journal of Theoretical Biology</i> , 2008, 254, 197-206.	0.8	123
33	The Adaptive Dynamics of Consumer Choice. <i>American Naturalist</i> , 1999, 153, 83-97.	1.0	119
34	Arguments in Favor of Higher Order Interactions. <i>American Naturalist</i> , 1983, 121, 887-891.	1.0	110
35	The responses of unstable food chains to enrichment. <i>Evolutionary Ecology</i> , 1994, 8, 150-171.	0.5	107
36	Variability in resource consumption rates and the coexistence of competing species. <i>Theoretical Population Biology</i> , 1984, 25, 106-124.	0.5	106

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37	Describing and quantifying interspecific interactions: a commentary on recent approaches. <i>Oikos</i> , 2001, 94, 209-218.	1.2	106
38	The Impact of Consumerâ€™Resource Cycles on the Coexistence of Competing Consumers. <i>Theoretical Population Biology</i> , 2002, 62, 281-295.	0.5	101
39	Effects of adaptive predatory and anti-predator behaviour in a two-prey?one-predator system. <i>Evolutionary Ecology</i> , 1993, 7, 312-326.	0.5	99
40	Fitness minimization and dynamic instability as a consequence of predatorâ€™prey coevolution. <i>Evolutionary Ecology</i> , 1997, 11, 1-20.	0.5	98
41	Timid Consumers: Self-Extinction Due to Adaptive Change in Foraging and Anti-predator Effort. <i>Theoretical Population Biology</i> , 1994, 45, 76-91.	0.5	89
42	Consequences of behavioral dynamics for the population dynamics of predator-prey systems with switching. <i>Population Ecology</i> , 2004, 46, 13.	0.7	87
43	The functional responses of adaptive consumers of two resources. <i>Theoretical Population Biology</i> , 1987, 32, 262-288.	0.5	86
44	Adaptive foraging by predators as a cause of predator-prey cycles. <i>Evolutionary Ecology</i> , 1992, 6, 56-72.	0.5	84
45	IS PREDATOR-MEDIATED COEXISTENCE POSSIBLE IN UNSTABLE SYSTEMS?. <i>Ecology</i> , 1999, 80, 608-621.	1.5	83
46	Effects of predator-specific defence on biodiversity and community complexity in two-trophic-level communities. <i>Evolutionary Ecology</i> , 1996, 10, 13-28.	0.5	81
47	DEFINING AND MEASURING THE IMPACT OF DYNAMIC TRAITS ON INTERSPECIFIC INTERACTIONS. <i>Ecology</i> , 2007, 88, 2555-2562.	1.5	80
48	High Competition with Low Similarity and Low Competition with High Similarity: Exploitative and Apparent Competition in Consumerâ€™Resource Systems. <i>American Naturalist</i> , 1998, 152, 114-128.	1.0	79
49	The fitness costs of senescence: The evolutionary importance of events in early adult life. <i>Evolutionary Ecology</i> , 1991, 5, 343-360.	0.5	78
50	The effect of adaptive change in the prey on the dynamics of an exploited predator population. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2005, 62, 758-766.	0.7	78
51	Lazy males? Bioenergetic differences in energy acquisition and metabolism help to explain sexual size dimorphism in percids. <i>Journal of Animal Ecology</i> , 2008, 77, 916-926.	1.3	71
52	Should Prey Overestimate the Risk of Predation?. <i>American Naturalist</i> , 1994, 144, 317-328.	1.0	67
53	Biphasic growth in fish II: Empirical assessment. <i>Journal of Theoretical Biology</i> , 2008, 254, 207-214.	0.8	67
54	Optimal life histories and food web position: linkages among somatic growth, reproductive investment, and mortality. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2005, 62, 738-746.	0.7	65

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55	Are Competition Coefficients Constant? Inductive Versus Deductive Approaches. <i>American Naturalist</i> , 1980, 116, 730-735.	1.0	64
56	Density-Independent Mortality and Interspecific Competition: A Test of Pianka's Niche Overlap Hypothesis. <i>American Naturalist</i> , 1977, 111, 539-552.	1.0	64
57	Resource Productivity-Consumer Species Diversity: Simple Models of Competition in Spatially Heterogeneous Environments. <i>Ecology</i> , 1988, 69, 1418-1433.	1.5	63
58	Coexistence of competitors in metacommunities due to spatial variation in resource growth rates; does $R^*$ predict the outcome of competition?. <i>Ecology Letters</i> , 2004, 7, 929-940.	3.0	63
59	Alternative Models of Character Displacement and Niche Shift. 2. Displacement when There is Competition for a Single Resource. <i>American Naturalist</i> , 1987, 130, 271-282.	1.0	62
60	The impact of mortality on predator population size and stability in systems with stage-structured prey. <i>Theoretical Population Biology</i> , 2005, 68, 253-266.	0.5	62
61	Shell selection and utilization in a terrestrial hermit crab, <i>Coenobita compressus</i> (H. Milne Edwards). <i>Oecologia</i> , 1978, 34, 239-253.	0.9	61
62	Strengths of Indirect Effects Generated by Optimal Foraging. <i>Oikos</i> , 1991, 62, 167.	1.2	60
63	Evolution and the Consequences of Species Introductions and Deletions. <i>Ecology</i> , 1996, 77, 1321-1328.	1.5	59
64	Consumer functional response and competition in consumer-resource systems. <i>Theoretical Population Biology</i> , 1980, 17, 80-102.	0.5	55
65	Effects of predator-specific defence on community complexity. <i>Evolutionary Ecology</i> , 1994, 8, 628-638.	0.5	55
66	Dynamics and responses to mortality rates of competing predators undergoing predator-prey cycles. <i>Theoretical Population Biology</i> , 2003, 64, 163-176.	0.5	51
67	Ecological vs Evolutionary Consequences of Competition. <i>Oikos</i> , 1990, 57, 147.	1.2	50
68	"Adaptive Dynamics" vs. "adaptive dynamics". <i>Journal of Evolutionary Biology</i> , 2005, 18, 1162-1165.	0.8	50
69	An analysis of competitive interactions between 3 hermit crab species. <i>Oecologia</i> , 1987, 72, 233-247.	0.9	49
70	Anomalous Predictions of Ratio-Dependent Models of Predation. <i>Oikos</i> , 1997, 80, 163.	1.2	49
71	THE IMPACT OF HABITAT SELECTION ON THE SPATIAL HETEROGENEITY OF RESOURCES IN VARYING ENVIRONMENTS. <i>Ecology</i> , 2000, 81, 2902-2913.	1.5	48
72	Effects of predator-prey interactions and adaptive change on sustainable yield. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2004, 61, 175-184.	0.7	48

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73	Optimal traits when there are several costs: the interaction of mortality and energy costs in determining foraging behavior. <i>Behavioral Ecology</i> , 1993, 4, 246-259.	1.0	47
74	Why ratio dependence is (still) a bad model of predation. <i>Biological Reviews</i> , 2015, 90, 794-814.	4.7	47
75	The evolution of traits that determine ability in competitive contests. <i>Evolutionary Ecology</i> , 1994, 8, 667-686.	0.5	46
76	Fitness minimization and dynamic instability as a consequence of predator-prey coevolution. <i>Evolutionary Ecology</i> , 1996, 10, 167-186.	0.5	46
77	Switching behavior, coexistence and diversification: comparing empirical community-wide evidence with theoretical predictions. <i>Ecology Letters</i> , 2008, 11, 802-808.	3.0	45
78	MEASURING THE IMPACT OF DYNAMIC ANTIPREDATOR TRAITS ON PREDATOR-“PREY”-RESOURCE INTERACTIONS. <i>Ecology</i> , 2008, 89, 1640-1649.	1.5	45
79	Modifying modifiers: what happens when interspecific interactions interact?. <i>Journal of Animal Ecology</i> , 2011, 80, 1097-1108.	1.3	45
80	Hydra effects in stable communities and their implications for system dynamics. <i>Ecology</i> , 2016, 97, 1135-1145.	1.5	44
81	Decreasing functional responses as a result of adaptive consumer behavior. <i>Evolutionary Ecology</i> , 1989, 3, 95-114.	0.5	41
82	Should co-operative groups be more vigilant than selfish groups?. <i>Journal of Theoretical Biology</i> , 1990, 142, 341-357.	0.8	41
83	Dynamic versus Instantaneous Models of Diet Choice. <i>American Naturalist</i> , 2003, 162, 668-684.	1.0	41
84	How should resources be counted?. <i>Theoretical Population Biology</i> , 1988, 33, 226-242.	0.5	39
85	Why don't predators have positive effects on prey populations?. <i>Evolutionary Ecology</i> , 1992, 6, 449-457.	0.5	39
86	Adaptive Host Preference and the Dynamics of Host-Parasitoid Interactions. <i>Theoretical Population Biology</i> , 1999, 56, 307-324.	0.5	37
87	Competition-Similarity Relationships and the Nonlinearity of Competitive Effects in Consumer-Resource Systems. <i>American Naturalist</i> , 2008, 172, 463-474.	1.0	37
88	Coexistence and limiting similarity of consumer species competing for a linear array of resources. <i>Ecology</i> , 2009, 90, 812-822.	1.5	37
89	Prey persistence and abundance in systems with intraguild predation and type-2 functional responses. <i>Journal of Theoretical Biology</i> , 2010, 264, 1033-1042.	0.8	37
90	Antarctic fisheries: factor climate change into their management. <i>Nature</i> , 2018, 558, 177-180.	13.7	36

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91	WHEN DOES PERIODIC VARIATION IN RESOURCE GROWTH ALLOW ROBUST COEXISTENCE OF COMPETING CONSUMER SPECIES?. <i>Ecology</i> , 2004, 85, 372-382.	1.5	35
92	Indirect effects of zebra mussels ( <i>Dreissena polymorpha</i> ) on the planktonic food web. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2003, 60, 1353-1368.	0.7	33
93	DETERMINANTS OF THE STRENGTH OF DISRUPTIVE AND/OR DIVERGENT SELECTION ARISING FROM RESOURCE COMPETITION. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 1571-1586.	1.1	32
94	Is predator-prey coevolution an arms race?. <i>Trends in Ecology and Evolution</i> , 1986, 1, 108-110.	4.2	30
95	The Predictive Ability of Peer Review of Grant Proposals: The Case of Ecology and the US National Science Foundation. <i>Social Studies of Science</i> , 1991, 21, 111-132.	1.5	30
96	Resource partitioning and competition for shells between intertidal hermit crabs on the outer coast of Washington. <i>Oecologia</i> , 1987, 72, 248-258.	0.9	29
97	Population dynamics of systems with consumers that maintain a constant ratio of intake rates of two resources. <i>Theoretical Population Biology</i> , 1989, 35, 51-89.	0.5	29
98	Mixed responses to resource densities and their implications for character displacement. <i>Evolutionary Ecology</i> , 1990, 4, 93-102.	0.5	29
99	Adaptive responses of generalist herbivores to competition: Convergence or divergence. <i>Evolutionary Ecology</i> , 1990, 4, 103-114.	0.5	29
100	A multi-scale comparison of trait linkages to environmental and spatial variables in fish communities across a large freshwater lake. <i>Oecologia</i> , 2011, 166, 819-831.	0.9	28
101	The importance of intraspecific frequency-dependent selection in modelling competitive coevolution. <i>Evolutionary Ecology</i> , 1989, 3, 215-220.	0.5	26
102	The effects of interacting species on predator-prey coevolution. <i>Theoretical Population Biology</i> , 1991, 39, 241-262.	0.5	26
103	Population dynamical consequences of reduced predator switching at low total prey densities. <i>Population Ecology</i> , 2003, 45, 175-185.	0.7	26
104	Quantitative descriptions of resource choice in ecological models. <i>Population Ecology</i> , 2010, 52, 47-58.	0.7	26
105	How does adaptive consumer movement affect population dynamics in consumer-resource metacommunities with homogeneous patches?. <i>Journal of Theoretical Biology</i> , 2011, 277, 99-110.	0.8	26
106	Harvesting creates ecological traps: consequences of invisible mortality risks in predator-prey metacommunities. <i>Ecology</i> , 2012, 93, 281-293.	1.5	26
107	Niche overlap and environmental variability. <i>Mathematical Biosciences</i> , 1976, 28, 357-372.	0.9	25
108	Recruitment, Lotteries, and Coexistence in Coral Reef Fish. <i>American Naturalist</i> , 1984, 123, 44-55.	1.0	25

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109	Resource partitioning and competition for shells in a subtidal hermit crab species assemblage. <i>Oecologia</i> , 1986, 69, 429-445.	0.9	24
110	The nonlinearity of competitive effects in models of competition for essential resources. <i>Theoretical Population Biology</i> , 1987, 32, 50-65.	0.5	24
111	Mortality and lifespan. <i>Nature</i> , 2004, 431, 1048-1048.	13.7	24
112	Adaptive changes in prey vulnerability shape the response of predator populations to mortality. <i>Journal of Theoretical Biology</i> , 2009, 261, 294-304.	0.8	24
113	Intraspecific shell exchange in the hermit crab <i>Clibanarius virescens</i> (Krauss). <i>Journal of Experimental Marine Biology and Ecology</i> , 1982, 59, 89-101.	0.7	23
114	Life-history strategies of optimal foragers. <i>Theoretical Population Biology</i> , 1983, 24, 22-38.	0.5	23
115	The many potential indirect interactions between predators that share competing prey. <i>Ecological Monographs</i> , 2015, 85, 625-641.	2.4	23
116	TRAIT-INITIATED INDIRECT EFFECTS DUE TO CHANGES IN CONSUMPTION RATES IN SIMPLE FOOD WEBS. <i>Ecology</i> , 2004, 85, 1029-1038.	1.5	22
117	Simple Life-History Omnivory: Responses to Enrichment and Harvesting in Systems with Intraguild Predation. <i>American Naturalist</i> , 2011, 178, 305-319.	1.0	22
118	Limits to the Similarity of Competitors Under Hierarchical Lottery Competition. <i>American Naturalist</i> , 1996, 148, 211-219.	1.0	21
119	Does Competition between Resources Change the Competition between Their Consumers to Mutualism? Variations on Two Themes by Vandermeer. <i>American Naturalist</i> , 2007, 170, 744-757.	1.0	20
120	Necessary elements of precautionary management: implications for the Antarctic toothfish. <i>Fish and Fisheries</i> , 2016, 17, 1152-1174.	2.7	20
121	The prevalence of asymmetrical indirect effects in two-host-one-parasitoid systems. <i>Theoretical Population Biology</i> , 2004, 66, 71-82.	0.5	19
122	How precautionary is the policy governing the Ross Sea Antarctic toothfish ( <i>Dissostichus</i> )? <i>Overlock 10, 1f 50 222</i>	0.5	19
123	Complexity, Stability, and Functional Response. <i>American Naturalist</i> , 1982, 119, 240-249.	1.0	19
124	The interaction between reproductive lifespan and protandry in seasonal breeders. <i>Journal of Evolutionary Biology</i> , 2004, 17, 768-778.	0.8	18
125	Shell fighting and competition between two hermit crab species in Panama. <i>Oecologia</i> , 1981, 51, 84-90.	0.9	17
126	Frequencies of interspecific shell exchanges between hermit crabs. <i>Journal of Experimental Marine Biology and Ecology</i> , 1982, 61, 99-109.	0.7	17



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127	Evolutionary responses of foraging-related traits in unstable predator-prey systems. <i>Evolutionary Ecology</i> , 1997, 11, 673-686.	0.5	17
128	Competition in an Indo-Pacific hermit crab community. <i>Oecologia</i> , 1981, 51, 240-249.	0.9	16
129	The evolution of rates of successful and unsuccessful predation. <i>Evolutionary Ecology</i> , 1989, 3, 157-171.	0.5	16
130	Is feedback control effective for ecosystem-based fisheries management?. <i>Journal of Theoretical Biology</i> , 2013, 339, 122-128.	0.8	16
131	Alternative methods of measuring competition applied to two Australian hermit crabs. <i>Oecologia</i> , 1981, 51, 233-239.	0.9	15
132	The competitive exclusion principle: Other views and a reply. <i>Trends in Ecology and Evolution</i> , 1986, 1, 131-132.	4.2	15
133	The roles of spatial heterogeneity and adaptive movement in stabilizing (or destabilizing) simple metacommunities. <i>Journal of Theoretical Biology</i> , 2011, 291, 76-87.	0.8	15
134	Effects of altered resource consumption rates by one consumer species on a competitor. <i>Ecology Letters</i> , 2003, 6, 550-555.	3.0	13
135	Variability and Adaptive Behavior: Implications for Interactions between Stream Organisms. <i>Journal of the North American Benthological Society</i> , 1997, 16, 358-374.	3.0	12
136	Prey life history and bioenergetic responses across a predation gradient. <i>Journal of Fish Biology</i> , 2010, 77, 1230-1251.	0.7	12
137	Further evidence that Antarctic toothfish are important to Weddell seals. <i>Antarctic Science</i> , 2021, 33, 17-29.	0.5	12
138	Evolutionarily Stable Growth Rates in Size-Structured Populations Under Size-Related Competition. <i>Theoretical Population Biology</i> , 1994, 46, 78-95.	0.5	11
139	Comparing Randomly Constructed and Real Communities: A Comment. <i>American Naturalist</i> , 1981, 118, 776-782.	1.0	8
140	Does consumption rate scale superlinearly?. <i>Nature</i> , 2013, 493, E1-E2.	13.7	6
141	The evolutionary and behavioral modification of consumer responses to environmental change. <i>Journal of Theoretical Biology</i> , 2014, 343, 162-173.	0.8	6
142	Overestimation Versus Underestimation of Predation Risk: A Reply to Bouskila et al.. <i>American Naturalist</i> , 1995, 145, 1020-1024.	1.0	6
143	Reply to a Comment by Hurlbert. <i>Ecology</i> , 1982, 63, 253-254.	1.5	5
144	Introducing the symposium "Building on Beverton's legacy: life history variation and fisheries management". <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2005, 62, 725-729.	0.7	5

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145	Ideal gas model adequately describes movement and school formation in a pelagic freshwater fish. <i>Behavioral Ecology</i> , 2015, 26, 1236-1247.	1.0	4
146	Paradoxical effects and interactions in food webs: a commentary on Nilsson and McCann (2016). <i>Theoretical Ecology</i> , 2016, 9, 513-517.	0.4	0
147	Food Webs. <i>Population and Community Biology</i> . Stuart L. Pimm. <i>Quarterly Review of Biology</i> , 1983, 58, 590-591.	0.0	0