

# Hal Caswell

## List of Publications by Year in descending order

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206  
papers

18,085  
citations

16411

64  
h-index

17546

121  
g-index

220  
all docs

220  
docs citations

220  
times ranked

11339  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Stage-Based Population Model for Loggerhead Sea Turtles and Implications for Conservation. <i>Ecology</i> , 1987, 68, 1412-1423.	1.5	869
2	Diversity of ageing across the tree of life. <i>Nature</i> , 2014, 505, 169-173.	13.7	800
3	Elasticity: The Relative Contribution of Demographic Parameters to Population Growth Rate. <i>Ecology</i> , 1986, 67, 1427-1431.	1.5	694
4	DEMOGRAPHY AND DISPERSAL: CALCULATION AND SENSITIVITY ANALYSIS OF INVASION SPEED FOR STRUCTURED POPULATIONS. <i>Ecology</i> , 2000, 81, 1613-1628.	1.5	521
5	Predator-Mediated Coexistence: A Nonequilibrium Model. <i>American Naturalist</i> , 1978, 112, 127-154.	1.0	492
6	Community Structure: A Neutral Model Analysis. <i>Ecological Monographs</i> , 1976, 46, 327-354.	2.4	475
7	LIFE HISTORIES AND ELASTICITY PATTERNS: PERTURBATION ANALYSIS FOR SPECIES WITH MINIMAL DEMOGRAPHIC DATA. <i>Ecology</i> , 2000, 81, 654-665.	1.5	460
8	PROSPECTIVE AND RETROSPECTIVE PERTURBATION ANALYSES: THEIR ROLES IN CONSERVATION BIOLOGY. <i>Ecology</i> , 2000, 81, 619-627.	1.5	404
9	A general formula for the sensitivity of population growth rate to changes in life history parameters. <i>Theoretical Population Biology</i> , 1978, 14, 215-230.	0.5	382
10	ALTERNATIVES TO RESILIENCE FOR MEASURING THE RESPONSES OF ECOLOGICAL SYSTEMS TO PERTURBATIONS. <i>Ecology</i> , 1997, 78, 653-665.	1.5	356
11	Estimation of Individual Fitness from Life-History Data. <i>American Naturalist</i> , 1996, 147, 47-64.	1.0	334
12	LIFE HISTORIES AND ELASTICITY PATTERNS: PERTURBATION ANALYSIS FOR SPECIES WITH MINIMAL DEMOGRAPHIC DATA. , 2000, 81, 654.		319
13	Population Growth Rates and Age Versus Stage-Distribution Models for Teasel ( <i>Dipsacus Sylvestris</i> ) Tj ETQq1 1 0.784314 rgBT /Overlo	1.5	306
14	Demography of the endangered North Atlantic right whale. <i>Nature</i> , 2001, 414, 537-541.	13.7	262
15	Phenotypic Plasticity in Life-History Traits: Demographic Effects and Evolutionary Consequences. <i>American Zoologist</i> , 1983, 23, 35-46.	0.7	261
16	The <sc>compadre</sc> <sc>P</sc> <sc>M</sc> <sc>D</sc> <sc>atabase: an open online repository for plant demography. <i>Journal of Ecology</i> , 2015, 103, 202-218.	1.9	260
17	ECOLOGY: Enhanced: North Atlantic Right Whales in Crisis. <i>Science</i> , 2005, 309, 561-562.	6.0	257
18	Elasticity analysis of density-dependent matrix population models: the invasion exponent and its substitutes. <i>Theoretical Population Biology</i> , 2004, 65, 401-411.	0.5	245

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19	Pod-Specific Demography of Killer Whales ( <i>Orcinus Orca</i> ). <i>Ecology</i> , 1993, 74, 1444-1454.	1.5	225
20	Sensitivity analysis of transient population dynamics. <i>Ecology Letters</i> , 2007, 10, 1-15.	3.0	223
21	Survival and breeding of polar bears in the southern Beaufort Sea in relation to sea ice. <i>Journal of Animal Ecology</i> , 2010, 79, 117-127.	1.3	216
22	Demographic models and IPCC climate projections predict the decline of an emperor penguin population. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1844-1847.	3.3	206
23	Climate change threatens polar bear populations: a stochastic demographic analysis. <i>Ecology</i> , 2010, 91, 2883-2897.	1.5	203
24	On the Comparative Allocations of Biomass, Energy, and Nutrients in Plants. <i>Ecology</i> , 1982, 63, 982-991.	1.5	196
25	Demographic Responses of Estuarine Polychaetes to Pollutants: Life Table Response Experiments. , 1996, 6, 1295-1313.		196
26	Photosynthetic Pathways and Selective Herbivory: A Hypothesis. <i>American Naturalist</i> , 1973, 107, 465-480.	1.0	193
27	Analysis of life table response experiments I. Decomposition of effects on population growth rate. <i>Ecological Modelling</i> , 1989, 46, 221-237.	1.2	192
28	<scp>COMADRE</scp>: a global data base of animal demography. <i>Journal of Animal Ecology</i> , 2016, 85, 371-384.	1.3	189
29	Two-Sex Models: Chaos, Extinction, and Other Dynamic Consequences of Sex. <i>American Naturalist</i> , 1986, 128, 707-735.	1.0	177
30	Theory and models in ecology: A different perspective. <i>Ecological Modelling</i> , 1988, 43, 33-44.	1.2	177
31	Declining survival probability threatens the North Atlantic right whale. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 3308-3313.	3.3	174
32	The Relative Importance of Life-History Stages to Population Growth: Prospective and Retrospective Analyses. , 1997, , 247-271.		142
33	Habitat fragmentation and extinction thresholds on fractal landscapes. <i>Ecology Letters</i> , 1999, 2, 121-127.	3.0	138
34	Stage, age and individual stochasticity in demography. <i>Oikos</i> , 2009, 118, 1763-1782.	1.2	136
35	Transient Behavior and Life History Analysis of Teasel ( <i>Dipsacus Sylvestris</i> Huds.). <i>Ecology</i> , 1978, 59, 53-66.	1.5	132
36	Life History Theory and the Equilibrium Status of Populations. <i>American Naturalist</i> , 1982, 120, 317-339.	1.0	131

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37	Population Responses to Fire in a Tropical Savanna Grass, <i>Andropogon Semiberbis</i> : A Matrix Model Approach. <i>Journal of Ecology</i> , 1991, 79, 345.	1.9	131
38	Projection matrices in population biology. <i>Trends in Ecology and Evolution</i> , 1988, 3, 264-269.	4.2	125
39	DEMOGRAPHY AND DISPERSAL: LIFE TABLE RESPONSE EXPERIMENTS FOR INVASION SPEED. <i>Ecology</i> , 2003, 84, 1968-1978.	1.5	118
40	Analysis of life table response experiments II. Alternative parameterizations for size- and stage-structured models. <i>Ecological Modelling</i> , 1996, 88, 73-82.	1.2	116
41	HARBOR PORPOISE AND FISHERIES: AN UNCERTAINTY ANALYSIS OF INCIDENTAL MORTALITY. , 1998, 8, 1226-1238.		116
42	Sensitivity Analysis of Periodic Matrix Models. <i>Ecology</i> , 1994, 75, 1299-1303.	1.5	111
43	Density-dependent vital rates and their population dynamic consequences. <i>Journal of Mathematical Biology</i> , 2000, 41, 103-121.	0.8	109
44	Evaluating the consequences of reproduction in complex salmonid life cycles. <i>Aquaculture</i> , 1984, 43, 123-134.	1.7	104
45	Fecundity, developmental time, and population growth rate: An analytical solution. <i>Theoretical Population Biology</i> , 1980, 17, 71-79.	0.5	101
46	Age, stage and senescence in plants. <i>Journal of Ecology</i> , 2013, 101, 585-595.	1.9	95
47	Perturbation Analysis of Indices of Lifespan Variability. <i>Demography</i> , 2013, 50, 1615-1640.	1.2	95
48	Projected continent-wide declines of the emperor penguin under climate change. <i>Nature Climate Change</i> , 2014, 4, 715-718.	8.1	95
49	A simulation study of a time lag population model. <i>Journal of Theoretical Biology</i> , 1972, 34, 419-439.	0.8	93
50	Effects of climate change on an emperor penguin population: analysis of coupled demographic and climate models. <i>Global Change Biology</i> , 2012, 18, 2756-2770.	4.2	93
51	Perturbation analysis of nonlinear matrix population models. <i>Demographic Research</i> , 0, 18, 59-116.	2.0	93
52	Disturbance, interspecific interaction and diversity in metapopulations. <i>Biological Journal of the Linnean Society</i> , 1991, 42, 193-218.	0.7	91
53	Markov Chain Analysis of Succession in a Rocky Subtidal Community. <i>American Naturalist</i> , 2004, 164, E46-E61.	1.0	91
54	Extrinsic mortality and the evolution of senescence. <i>Trends in Ecology and Evolution</i> , 2007, 22, 173-174.	4.2	91

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55	The use of the vec-permutation matrix in spatial matrix population models. <i>Ecological Modelling</i> , 2005, 188, 15-21.	1.2	86
56	Transient dynamics and pattern formation: reactivity is necessary for Turing instabilities. <i>Mathematical Biosciences</i> , 2002, 175, 1-11.	0.9	84
57	Demographic Consequences of Larval Development Mode: Planktotrophy vs. Lecithotrophy in <i>Streblospio Benedicti</i> . <i>Ecology</i> , 1987, 68, 1877-1886.	1.5	83
58	STOCHASTIC FLOOD AND PRECIPITATION REGIMES AND THE POPULATION DYNAMICS OF A THREATENED FLOODPLAIN PLANT. , 2005, 15, 1036-1052.		83
59	Optimal Life Histories and the Maximization of Reproductive Value: A General Theorem for Complex Life Cycles. <i>Ecology</i> , 1982, 63, 1218-1222.	1.5	81
60	Stable Population Structure and Reproductive Value for Populations with Complex Life Cycles. <i>Ecology</i> , 1982, 63, 1223-1231.	1.5	80
61	A life-history perspective on the demographic drivers of structured population dynamics in changing environments. <i>Ecology Letters</i> , 2016, 19, 1023-1031.	3.0	80
62	Sensitivity Analysis: Matrix Methods in Demography and Ecology. <i>Demographic Research Monographs</i> , 2019, , .	0.1	78
63	Reactivity and transient dynamics of predator-prey and food web models. <i>Ecological Modelling</i> , 2004, 179, 29-38.	1.2	74
64	Second Derivatives of Population Growth Rate: Calculation and Applications. <i>Ecology</i> , 1996, 77, 870-879.	1.5	73
65	Demography of <i>Verreaux's sifaka</i> in a stochastic rainfall environment. <i>Oecologia</i> , 2009, 161, 491-504.	0.9	73
66	Matrix models and sensitivity analysis of populations classified by age and stage: a vec-permutation matrix approach. <i>Theoretical Ecology</i> , 2012, 5, 403-417.	0.4	73
67	Red, white and blue: environmental variance spectra and coexistence in metapopulations. <i>Journal of Theoretical Biology</i> , 1995, 176, 301-316.	0.8	72
68	Plant-herbivore interactions. <i>Oecologia</i> , 1976, 26, 151-156.	0.9	70
69	Bathymetric species-diversity patterns and boundary constraints on vertical range distributions. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1998, 45, 83-101.	0.6	69
70	Reactivity and transient dynamics of discrete-time ecological systems. <i>Journal of Difference Equations and Applications</i> , 2005, 11, 295-310.	0.7	69
71	Communities in Patchy Environments: A Model of Disturbance, Competition, and Heterogeneity. <i>Ecological Studies</i> , 1991, , 97-122.	0.4	69
72	Stochastic demography and conservation of an endangered perennial plant ( <i>Lomatium bradshawii</i> ) in a dynamic fire regime. <i>Advances in Ecological Research</i> , 2001, 32, 1-51.	1.4	68

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73	Population growth rate of a common understory herb decreases non-linearly across a gradient of deer herbivory. <i>Forest Ecology and Management</i> , 2009, 257, 1095-1103.	1.4	67
74	The 2002 European seal plague: epidemiology and population consequences. <i>Ecology Letters</i> , 2002, 5, 727-732.	3.0	66
75	Beyond R0: Demographic Models for Variability of Lifetime Reproductive Output. <i>PLoS ONE</i> , 2011, 6, e20809.	1.1	65
76	Demographic costs of Chaoborus-induced defences in <i>Daphnia pulex</i> : a sensitivity analysis. <i>Oecologia</i> , 1991, 87, 43-50.	0.9	64
77	A GENERAL APPROACH TO TEMPORARY EMIGRATION IN MARK-RECAPTURE ANALYSIS. <i>Ecology</i> , 2002, 83, 3266-3275.	1.5	64
78	Mating Behavior, Population Growth, and the Operational Sex Ratio: A Periodic Two-Sex Model Approach. <i>American Naturalist</i> , 2010, 175, 739-752.	1.0	64
79	SPATIAL AND TEMPORAL DEMOGRAPHIC VARIABILITY IN THE ENDEMIC PLANT SPECIES <i>CENTAUREA CORYMBOSA</i> (ASTERACEAE). <i>Ecology</i> , 2004, 85, 694-703.	1.5	62
80	Intermittency in the plankton: a multifractal analysis of zooplankton biomass variability. <i>Journal of Plankton Research</i> , 1995, 17, 1209-1232.	0.8	61
81	A Demographic Analysis of the Fitness Cost of Extended Longevity in <i>Caenorhabditis elegans</i> . <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2007, 62, 126-135.	1.7	61
82	Life table response experiment analysis of the stochastic growth rate. <i>Journal of Ecology</i> , 2010, 98, 324-333.	1.9	59
83	Estimating Population Projection Matrices from Multi-Stage Mark-Recapture Data. <i>Ecology</i> , 2002, 83, 3257.	1.5	57
84	Lifetime reproductive output: individual stochasticity, variance, and sensitivity analysis. <i>Theoretical Ecology</i> , 2017, 10, 355-374.	0.4	53
85	On the Equivalence of Maximizing Reproductive Value and Maximizing Fitness. <i>Ecology</i> , 1980, 61, 19-24.	1.5	52
86	Mechanistic description of population dynamics using dynamic energy budget theory incorporated into integral projection models. <i>Methods in Ecology and Evolution</i> , 2017, 8, 146-154.	2.2	52
87	Density effects in a colonial monoculture: experimental studies with a marine bryozoan ( <i>Membranipora membranacea</i> L.). <i>Oecologia</i> , 1990, 82, 227-237.	0.9	51
88	The stage-structured epidemic: linking disease and demography with a multi-state matrix approach model. <i>Theoretical Ecology</i> , 2011, 4, 301-319.	0.4	51
89	The Rarity of Survival to Old Age Does Not Drive the Evolution of Senescence. <i>Evolutionary Biology</i> , 2017, 44, 5-10.	0.5	51
90	Age-classified demographic analysis: a comprehensive approach. <i>Ecological Monographs</i> , 2018, 88, 560-584.	2.4	51

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91	Selective harvest of sooty shearwater chicks: effects on population dynamics and sustainability. <i>Journal of Animal Ecology</i> , 2005, 74, 589-600.	1.3	49
92	Sensitivity Analysis of Reactive Ecological Dynamics. <i>Bulletin of Mathematical Biology</i> , 2008, 70, 1634-1659.	0.9	49
93	Matrix Methods for Avian Demography. , 1993, , 139-185.		47
94	The Evolution of "Mixed" Life Histories in Marine Invertebrates and Elsewhere. <i>American Naturalist</i> , 1981, 117, 529-536.	1.0	46
95	Optimal life histories and the age-specific costs of reproduction. <i>Journal of Theoretical Biology</i> , 1982, 98, 519-529.	0.8	46
96	Implementing i-state configuration models for population dynamics: an object-oriented programming approach. <i>Ecological Modelling</i> , 1993, 68, 75-89.	1.2	45
97	Climate change and functional traits affect population dynamics of a long-lived seabird. <i>Journal of Animal Ecology</i> , 2018, 87, 906-920.	1.3	45
98	ESTIMATING POPULATION PROJECTION MATRICES FROM MULTI-STAGE MARKOV RECAPTURE DATA. <i>Ecology</i> , 2002, 83, 3257-3265.	1.5	43
99	Senescence, Selection Gradients and Mortality. , 2017, , 56-82.		43
100	A MODEL FOR ENERGETICS AND BIOACCUMULATION IN MARINE MAMMALS WITH APPLICATIONS TO THE RIGHT WHALE. , 2007, 17, 2233-2250.		42
101	Spatial growth and population dynamics of a perennial tussock grass ( <i>Achnatherum calamagrostis</i> ) in a badland area. <i>Journal of Ecology</i> , 2000, 88, 950-963.	1.9	41
102	Chaos and closure terms in plankton food chain models. <i>Journal of Plankton Research</i> , 1998, 20, 1837-1845.	0.8	40
103	Integrating dynamic energy budgets into matrix population models. <i>Ecological Modelling</i> , 2006, 196, 407-420.	1.2	40
104	FROM THE CELL CYCLE TO POPULATION CYCLES IN PHYTOPLANKTON NUTRIENT INTERACTIONS. <i>Ecology</i> , 1997, 78, 897-912.	1.5	39
105	Spatio-temporal variation in Markov chain models of subtidal community succession. <i>Ecology Letters</i> , 2002, 5, 665-675.	3.0	39
106	Environmental Heterogeneity and Biological Pattern in a Chaotic Predator-prey System. <i>Journal of Theoretical Biology</i> , 1997, 185, 1-13.	0.8	37
107	Cellular Automaton Models for Competition in Patchy Environments: Facilitation, Inhibition, and Tolerance. <i>Bulletin of Mathematical Biology</i> , 1999, 61, 625-649.	0.9	37
108	Limitation of population recovery: a stochastic approach to the case of the emperor penguin. <i>Oikos</i> , 2009, 118, 1292-1298.	1.2	37

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109	Sensitivity analysis of discrete Markov chains via matrix calculus. <i>Linear Algebra and Its Applications</i> , 2013, 438, 1727-1745.	0.4	36
110	A matrix approach to the statistics of longevity in the gamma-Gompertz and related mortality models. <i>Demographic Research</i> , 0, 31, 553-592.	2.0	36
111	ON INSTANTANEOUS AND FINITE BIRTH RATES <sup>1</sup> . <i>Limnology and Oceanography</i> , 1972, 17, 787-791.	1.6	35
112	Stochasticity, heterogeneity, and variance in longevity in human populations. <i>Theoretical Population Biology</i> , 2017, 114, 107-116.	0.5	35
113	A MATRIX MODEL FOR SHORT-TERM DYNAMICS OF SEEDED POPULATIONS OF SEA SCALLOPS. , 1999, 9, 266-287.		34
114	Interacting effects of unobserved heterogeneity and individual stochasticity in the life history of the southern fulmar. <i>Journal of Animal Ecology</i> , 2018, 87, 212-222.	1.3	34
115	Sensitivity analysis of equilibrium in density-dependent matrix population models. <i>Ecology Letters</i> , 2004, 7, 380-387.	3.0	33
116	The Paris Agreement objectives will likely halt future declines of emperor penguins. <i>Global Change Biology</i> , 2020, 26, 1170-1184.	4.2	33
117	Indigestibility of C4 Bundle Sheath Cells by the Grasshopper, <i>Melanoplus confusus</i> <sup>1,2</sup> . <i>Annals of the Entomological Society of America</i> , 1975, 68, 686-688.	1.3	32
118	SENSITIVITY ANALYSIS OF THE STOCHASTIC GROWTH RATE: THREE EXTENSIONS+. <i>Australian and New Zealand Journal of Statistics</i> , 2005, 47, 75-85.	0.4	32
119	Matrix Methods for Population Analysis. , 1997, , 19-58.		32
120	From the Individual to the Population in Demographic Models. , 1992, , 36-61.		32
121	An Introduction to Systems Science for Ecologists. , 1972, , 3-78.		32
122	The ecology and biodemography of <i>Caenorhabditis elegans</i> . <i>Experimental Gerontology</i> , 2006, 41, 1059-1065.	1.2	31
123	Inferring forest fate from demographic data: from vital rates to population dynamic models. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20172050.	1.2	31
124	A guide to calculating discrete-time invasion rates from data. , 2006, , 169-192.		30
125	Why do lifespan variability trends for the young and old diverge? A perturbation analysis. <i>Demographic Research</i> , 2014, 30, 1367-1396.	2.0	30
126	DEMOGRAPHY AND DISPERSAL: CALCULATION AND SENSITIVITY ANALYSIS OF INVASION SPEED FOR STRUCTURED POPULATIONS. , 2000, 81, 1613.		29



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127	Reproductive value, the stable stage distribution, and the sensitivity of the population growth rate to changes in vital rates. <i>Demographic Research</i> , 0, 23, 531-548.	2.0	29
128	On the Estimation of Dispersal Kernels from Individual Mark-Recapture Data. <i>Environmental and Ecological Statistics</i> , 2006, 13, 183-197.	1.9	28
129	Recruitment variability and stochastic population growth of the soft-shell clam, <i>Mya arenaria</i> . <i>Ecological Modelling</i> , 2006, 193, 517-530.	1.2	27
130	Demography and dispersal: invasion speeds and sensitivity analysis in periodic and stochastic environments. <i>Theoretical Ecology</i> , 2011, 4, 407-421.	0.4	27
131	How does stochasticity in colonization accelerate the speed of invasion in a cellular automaton model?. <i>Ecological Research</i> , 2006, 21, 334-345.	0.7	26
132	Sensitivity analysis of periodic matrix population models. <i>Theoretical Population Biology</i> , 2012, 82, 329-339.	0.5	26
133	Variance in animal longevity: contributions of heterogeneity and stochasticity. <i>Population Ecology</i> , 2018, 60, 89-99.	0.7	26
134	The dynamics of a size-classified benthic population with reproductive subsidy. <i>Theoretical Population Biology</i> , 1991, 39, 129-147.	0.5	25
135	Lifetime reproduction and the second demographic transition: Stochasticity and individual variation. <i>Demographic Research</i> , 0, 33, 561-588.	2.0	25
136	Calculating second derivatives of population growth rates for ecology and evolution. <i>Methods in Ecology and Evolution</i> , 2014, 5, 473-482.	2.2	23
137	The effects of habitat destruction in finite landscapes: a chain-binomial metapopulation model. <i>Oikos</i> , 2001, 93, 321-331.	1.2	22
138	Sensitivity and elasticity of density-dependent population models. <i>Journal of Difference Equations and Applications</i> , 2009, 15, 349-369.	0.7	22
139	Environment-specific elasticity and sensitivity analysis of the stochastic growth rate. <i>Ecological Modelling</i> , 2009, 220, 605-610.	1.2	22
140	The formal demography of kinship: A matrix formulation. <i>Demographic Research</i> , 0, 41, 679-712.	2.0	22
141	Detecting nonlinear dynamics in spatio-temporal systems, examples from ecological models. <i>Physica D: Nonlinear Phenomena</i> , 1996, 96, 321-333.	1.3	21
142	A demographic model for sex ratio evolution and the effects of sex-biased offspring costs. <i>Ecology and Evolution</i> , 2016, 6, 1470-1492.	0.8	21
143	Hyperstate matrix models: extending demographic state spaces to higher dimensions. <i>Methods in Ecology and Evolution</i> , 2016, 7, 1438-1450.	2.2	21
144	Variance as a life history outcome: Sensitivity analysis of the contributions of stochasticity and heterogeneity. <i>Ecological Modelling</i> , 2020, 417, 108856.	1.2	21

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145	Structured-Population Models: Many Methods, a Few Basic Concepts. , 1997, , 3-17.		21
146	Rank and Redundancy of Multistate Mark-Recapture Models for Seabird Populations with Unobservable States. , 2009, , 797-825.		20
147	Perturbation analysis of continuous-time absorbing Markov chains. Numerical Linear Algebra With Applications, 2011, 18, 901-917.	0.9	20
148	Stage-Structured Evolutionary Demography: Linking Life Histories, Population Genetics, and Ecological Dynamics. American Naturalist, 2019, 193, 545-559.	1.0	20
149	Detecting reactivity. Ecology, 2009, 90, 2683-2688.	1.5	19
150	A demographic and evolutionary analysis of maternal effect senescence. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16431-16437.	3.3	19
151	The formal demography of kinship II: Multistate models, parity, and sibship. Demographic Research, 0, 42, 1097-1146.	2.0	19
152	Ringed seal demography in a changing climate. Ecological Applications, 2019, 29, e01855.	1.8	18
153	The sensitivity analysis of population projections. Demographic Research, 0, 33, 801-840.	2.0	18
154	Optimal Size at Maturity in Size-Structured Populations. Journal of Theoretical Biology, 1997, 187, 81-93.	0.8	17
155	Demographic variance in heterogeneous populations: matrix models and sensitivity analysis. Oikos, 2018, 127, 648-663.	1.2	16
156	Selection in two-sex stage-structured populations: Genetics, demography, and polymorphism. Theoretical Population Biology, 2019, 130, 160-169.	0.5	16
157	Changing contribution of area-level deprivation to total variance in age at death: a population-based decomposition analysis. BMJ Open, 2019, 9, e024952.	0.8	16
158	Estimation of Stage-Specific Demographic Parameters for Zooplankton Populations: Methods Based on Stage-Classified Matrix Projection Models. Lecture Notes in Statistics, 1989, , 93-107.	0.1	16
159	PROSPECTIVE AND RETROSPECTIVE PERTURBATION ANALYSES: THEIR ROLES IN CONSERVATION BIOLOGY. , 2000, 81, 619.		16
160	Contributions of high- and low-quality patches to a metapopulation with stochastic disturbance. Theoretical Ecology, 2012, 5, 167-179.	0.4	15
161	Demography and the statistics of lifetime economic transfers under individual stochasticity. Demographic Research, 0, 32, 563-588.	2.0	15
162	A matrix model for density-dependent selection in stage-classified populations, with application to pesticide resistance in <i>Tribolium</i> . Ecological Modelling, 2020, 416, 108875.	1.2	14

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163	Optimal life histories and age-specific costs of reproduction: Two extensions. <i>Journal of Theoretical Biology</i> , 1984, 107, 169-172.	0.8	13
164	A seasonal, density-dependent model for the management of an invasive weed. <i>Ecological Applications</i> , 2013, 23, 1893-1905.	1.8	13
165	Frequency-dependent two-sex models: a new approach to sex ratio evolution with multiple maternal conditions. <i>Ecology and Evolution</i> , 2016, 6, 6855-6879.	0.8	13
166	Occupancy time in sets of states for demographic models. <i>Theoretical Population Biology</i> , 2018, 120, 62-77.	0.5	13
167	Mating, births, and transitions: a flexible two-sex matrix model for evolutionary demography. <i>Population Ecology</i> , 2018, 60, 21-36.	0.7	13
168	Matrix methods in health demography: a new approach to the stochastic analysis of healthy longevity and DALYs. <i>Population Health Metrics</i> , 2018, 16, 8.	1.3	13
169	Rebuttal of "Polar Bear Population Forecasts: A Public-Policy Forecasting Audit". <i>Interfaces</i> , 2009, 39, 353-369.	1.6	12
170	Predator-mediated coexistence of epiphytic grass shrimps that compete for refuges. <i>Ecological Modelling</i> , 1996, 84, 1-10.	1.2	10
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