

Stephen P Ellner

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6392077/stephen-p-ellner-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

125
papers

9,896
citations

53
h-index

99
g-index

134
ext. papers

11,433
ext. citations

6.5
avg, IF

6.39
L-index

#	Paper	IF	Citations
125	A critical comparison of integral projection and matrix projection models for demographic analysis: Comment.. <i>Ecology</i> , 2021 , e3605	4.6	0
124	Time and Chance: Using Age Partitioning to Understand How Luck Drives Variation in Reproductive Success. <i>American Naturalist</i> , 2021 , 197, E110-E128	3.7	5
123	Generalized Single Index Models and Jensen Effects on Reproduction and Survival. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2021 , 26, 492-512	1.9	
122	A practical guide to selecting models for exploration, inference, and prediction in ecology. <i>Ecology</i> , 2021 , 102, e03336	4.6	24
121	Host-pathogen immune feedbacks can explain widely divergent outcomes from similar infections. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021 , 288, 20210786	4.4	4
120	Collective behaviour can stabilize ecosystems. <i>Nature Ecology and Evolution</i> , 2021 , 5, 1435-1440	12.3	3
119	The Jensen effect and functional single index models: Estimating the ecological implications of nonlinear reaction norms. <i>Annals of Applied Statistics</i> , 2020 , 14,	2.1	1
118	Technical Comment on Pande et al. (2020): Why invasion analysis is important for understanding coexistence. <i>Ecology Letters</i> , 2020 , 23, 1721-1724	10	4
117	Rapid evolution with generation overlap: the double-edged effect of dormancy. <i>Theoretical Ecology</i> , 2019 , 12, 179-195	1.6	8
116	Consumer-resource dynamics is an eco-evolutionary process in a natural plankton community. <i>Nature Ecology and Evolution</i> , 2019 , 3, 1351-1358	12.3	22
115	Why So Variable: Can Genetic Variance in Flowering Thresholds Be Maintained by Fluctuating Selection?. <i>American Naturalist</i> , 2019 , 194, E13-E29	3.7	7
114	An expanded modern coexistence theory for empirical applications. <i>Ecology Letters</i> , 2019 , 22, 3-18	10	70
113	Spatiotemporally Heterogeneous Population Dynamics of Gut Bacteria Inferred from Fecal Time Series Data. <i>MBio</i> , 2018 , 9,	7.8	25
112	Weak interspecific interactions in a sagebrush steppe? Conflicting evidence from observations and experiments. <i>Ecology</i> , 2018 , 99, 1621-1632	4.6	9
111	Generation Time in Structured Populations. <i>American Naturalist</i> , 2018 , 192, 105-110	3.7	2
110	Disease where you dine: plant species and floral traits associated with pathogen transmission in bumble bees. <i>Ecology</i> , 2018 , 99, 2535-2545	4.6	46
109	Size-by-environment interactions: a neglected dimension of species responses to environmental variation. <i>Ecology Letters</i> , 2018 , 21, 1757-1770	10	14

108	We Happy Few: Using Structured Population Models to Identify the Decisive Events in the Lives of Exceptional Individuals. <i>American Naturalist</i> , 2016 , 188, E28-45	3.7	16
107	Linking demography with drivers: climate and competition. <i>Methods in Ecology and Evolution</i> , 2016 , 7, 171-183	7.7	40
106	The economic benefit of time-varying surveillance effort for invasive species management. <i>Journal of Applied Ecology</i> , 2016 , 53, 712-721	5.8	34
105	Evolving integral projection models: evolutionary demography meets eco-evolutionary dynamics. <i>Methods in Ecology and Evolution</i> , 2016 , 7, 157-170	7.7	28
104	Detecting collective behaviour in animal relocation data, with application to migrating caribou. <i>Methods in Ecology and Evolution</i> , 2016 , 7, 30-41	7.7	17
103	Antagonistic coevolution between quantitative and Mendelian traits. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016 , 283, 20152926	4.4	17
102	Simple Deterministic IPM. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2016 , 9-56	0.3	
101	Basic Analyses 1: Demographic Measures and Events in the Life Cycle. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2016 , 57-85	0.3	
100	Basic Analyses 2: Prospective Perturbation Analysis. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2016 , 87-109	0.3	
99	General Deterministic IPM. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2016 , 139-185	0.3	
98	Environmental Stochasticity. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2016 , 187-227	0.3	1
97	Spatial Models. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2016 , 229-254	0.3	1
96	Evolutionary Demography. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2016 , 255-282	0.3	
95	Data-driven Modelling of Structured Populations. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2016 ,	0.3	100
94	Density Dependence. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2016 , 111-138	0.3	1
93	Can Population Genetics Adapt to Rapid Evolution?. <i>Trends in Genetics</i> , 2016 , 32, 408-418	8.5	108
92	How to quantify the temporal storage effect using simulations instead of math. <i>Ecology Letters</i> , 2016 , 19, 1333-1342	10	45
91	Human judgment vs. quantitative models for the management of ecological resources. <i>Ecological Applications</i> , 2016 , 26, 1553-1565	4.9	13

90	Linking the continental migratory cycle of the monarch butterfly to understand its population decline. <i>Oikos</i> , 2016 , 125, 1081-1091	4	92
89	Species fluctuations sustained by a cyclic succession at the edge of chaos. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 6389-94	11.5	81
88	Statistical modelling of annual variation for inference on stochastic population dynamics using Integral Projection Models. <i>Methods in Ecology and Evolution</i> , 2015 , 6, 1007-1017	7.7	22
87	Informed herbivore movement and interplant communication determine the effects of induced resistance in an individual-based model. <i>Journal of Animal Ecology</i> , 2015 , 84, 1273-85	4.7	20
86	Building integral projection models: a user's guide. <i>Journal of Animal Ecology</i> , 2014 , 83, 528-45	4.7	78
85	A newly discovered role of evolution in previously published consumer-resource dynamics. <i>Ecology Letters</i> , 2014 , 17, 915-23	10	67
84	Eco-Evolutionary Dynamics in a Three-Species Food Web with Intraguild Predation. <i>Advances in Ecological Research</i> , 2014 , 50, 41-73	4.6	20
83	Infectious disease in consumer populations: dynamic consequences of resource-mediated transmission and infectiousness. <i>Theoretical Ecology</i> , 2014 , 7, 163-179	1.6	14
82	Rapid evolution: from genes to communities, and back again?. <i>Functional Ecology</i> , 2013 , 27, 1087-1099	5.6	46
81	Designing an effective trap cropping strategy: the effects of attraction, retention and plant spatial distribution. <i>Journal of Applied Ecology</i> , 2012 , 49, no-no	5.8	9
80	The functional genomics of an eco-evolutionary feedback loop: linking gene expression, trait evolution, and community dynamics. <i>Ecology Letters</i> , 2012 , 15, 492-501	10	120
79	Temporally variable dispersal and demography can accelerate the spread of invading species. <i>Theoretical Population Biology</i> , 2012 , 82, 283-98	1.2	44
78	Comments on: Inference for Size Demography From Point Pattern Data Using Integral Projection Models. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2012 , 17, 682-689	1.9	4
77	Variable cost of prey defense and coevolution in predator-prey systems. <i>Ecological Monographs</i> , 2012 , 82, 491-504	9	25
76	Avoiding unintentional eviction from integral projection models. <i>Ecology</i> , 2012 , 93, 2008-14	4.6	46
75	Disease dynamics in wild populations: modeling and estimation: a review. <i>Journal of Ornithology</i> , 2012 , 152, 485-509	1.5	61
74	Forecasting plant community impacts of climate variability and change: when do competitive interactions matter?. <i>Journal of Ecology</i> , 2012 , 100, 478-487	6	105
73	Impacts of aspergillosis on sea fan coral demography: modeling a moving target. <i>Ecological Monographs</i> , 2011 , 81, 123-139	9	64

72	Does rapid evolution matter? Measuring the rate of contemporary evolution and its impacts on ecological dynamics. <i>Ecology Letters</i> , 2011 , 14, 603-14	10	184
71	Rapid prey evolution and the dynamics of two-predator food webs. <i>Theoretical Ecology</i> , 2011 , 4, 133-152	1.6	45
70	Parameterizing state-space models for infectious disease dynamics by generalized profiling: measles in Ontario. <i>Journal of the Royal Society Interface</i> , 2011 , 8, 961-74	4.1	41
69	Importance of individual and environmental variation for invasive species spread: a spatial integral projection model. <i>Ecology</i> , 2011 , 92, 86-97	4.6	47
68	Reduction of adaptive genetic diversity radically alters eco-evolutionary community dynamics. <i>Ecology Letters</i> , 2010 , 13, 989-97	10	162
67	Coexistence of perennial plants: an embarrassment of niches. <i>Ecology Letters</i> , 2010 , 13, 1019-29	10	174
66	How microbial community composition regulates coral disease development. <i>PLoS Biology</i> , 2010 , 8, e1000345	9.7	85
65	Understanding rapid evolution in predator-prey interactions using the theory of fast-slow dynamical systems. <i>American Naturalist</i> , 2010 , 176, E109-27	3.7	80
64	Integral projection models for populations in temporally varying environments. <i>Ecological Monographs</i> , 2009 , 79, 575-594	9	118
63	Chaos in a long-term experiment with a plankton community. <i>Nature</i> , 2008 , 451, 822-5	50.4	255
62	Commentary on Holmes et al. (2007): resolving the debate on when extinction risk is predictable. <i>Ecology Letters</i> , 2008 , 11, E1-5	10	37
61	Evolutionary demography of long-lived monocarpic perennials: a time-lagged integral projection model. <i>Journal of Ecology</i> , 2008 , 96, 821-832	6	51
60	Within-host disease ecology in the sea fan <i>Gorgonia ventalina</i> : modeling the spatial immunodynamics of a coral-pathogen interaction. <i>American Naturalist</i> , 2007 , 170, E143-61	3.7	30
59	Stochastic stable population growth in integral projection models: theory and application. <i>Journal of Mathematical Biology</i> , 2007 , 54, 227-56	2	79
58	Effects of rapid prey evolution on predator-prey cycles. <i>Journal of Mathematical Biology</i> , 2007 , 55, 541-73	7	62
57	Cryptic population dynamics: rapid evolution masks trophic interactions. <i>PLoS Biology</i> , 2007 , 5, e235	9.7	169
56	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> , 2006 , 103, 10690-5	11.5	84
55	Integral projection models for species with complex demography. <i>American Naturalist</i> , 2006 , 167, 410-28	3.7	384

54	Dynamic Models in Biology 2006 ,		81
53	POPULATION CYCLES IN THE PINE LOOPER MOTH: DYNAMICAL TESTS OF MECHANISTIC HYPOTHESES. <i>Ecological Monographs</i> , 2005 , 75, 259-276	9	44
52	Rapid evolution and the convergence of ecological and evolutionary time. <i>Ecology Letters</i> , 2005 , 8, 1114-1127	10	65
51	Evolution of size-dependent flowering in a variable environment: construction and analysis of a stochastic integral projection model. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004 , 271, 425-34	4.4	76
50	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> , 2004 , 271, 1947-53	4.4	141
49	Evolutionary tradeoff and equilibrium in an aquatic predator-prey system. <i>Bulletin of Mathematical Biology</i> , 2004 , 66, 1547-73	2.1	26
48	DYNAMICAL EFFECTS OF PLANT QUALITY AND PARASITISM ON POPULATION CYCLES OF LARCH BUDMOTH. <i>Ecology</i> , 2003 , 84, 1207-1214	4.6	115
47	USING PVA FOR MANAGEMENT DESPITE UNCERTAINTY: EFFECTS OF HABITAT, HATCHERIES, AND HARVEST ON SALMON. <i>Ecology</i> , 2003 , 84, 1359-1369	4.6	64
46	When does parameter drift decrease the uncertainty in extinction risk estimates?. <i>Ecology Letters</i> , 2003 , 6, 1039-1045	10	11
45	Rapid evolution drives ecological dynamics in a predator-prey system. <i>Nature</i> , 2003 , 424, 303-6	50.4	748
44	Pair-edge approximation for heterogeneous lattice population models. <i>Theoretical Population Biology</i> , 2003 , 64, 271-80	1.2	22
43	EFFECTS OF SUCCESSIONAL DYNAMICS ON METAPOPOPULATION PERSISTENCE. <i>Ecology</i> , 2003 , 84, 882-889	9.6	62
42	Evolution of complex flowering strategies: an age- and size-structured integral projection model. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003 , 270, 1829-38	4.4	78
41	Evolution as a critical component of plankton dynamics. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003 , 270, 1015-22	4.4	107
40	Predator-prey cycles in an aquatic microcosm: testing hypotheses of mechanism. <i>Journal of Animal Ecology</i> , 2002 , 71, 802-815	4.7	71
39	Precision of Population Viability Analysis. <i>Conservation Biology</i> , 2002 , 16, 258-261	6	146
38	STATE-DEPENDENT ENERGY ALLOCATION IN VARIABLE ENVIRONMENTS: LIFE HISTORY EVOLUTION OF A ROTIFER. <i>Ecology</i> , 2002 , 83, 2181-2193	4.6	26
37	SCALING UP ANIMAL MOVEMENTS IN HETEROGENEOUS LANDSCAPES: THE IMPORTANCE OF BEHAVIOR. <i>Ecology</i> , 2002 , 83, 2240-2247	4.6	195

36	FITTING POPULATION DYNAMIC MODELS TO TIME-SERIES DATA BY GRADIENT MATCHING. <i>Ecology</i> , 2002 , 83, 2256-2270	4.6	49
35	Stochastic matrix models for conservation and management: a comparative review of methods. <i>Ecology Letters</i> , 2001 , 4, 244-266	10	196
34	Pair approximation for lattice models with multiple interaction scales. <i>Journal of Theoretical Biology</i> , 2001 , 210, 435-47	2.3	75
33	Habitat structure and population persistence in an experimental community. <i>Nature</i> , 2001 , 412, 538-43	50.4	168
32	INFERRING COLONIZATION PROCESSES FROM POPULATION DYNAMICS IN SPATIALLY STRUCTURED PREDATOR-PREY SYSTEMS. <i>Ecology</i> , 2000 , 81, 3350-3361	4.6	3
31	LINKING ECOLOGICAL PATTERNS TO ENVIRONMENTAL FORCING VIA NONLINEAR TIME SERIES MODELS. <i>Ecology</i> , 2000 , 81, 2767-2780	4.6	31
30	Reconstructing susceptible and recruitment dynamics from measles epidemic data. <i>Mathematical Population Studies</i> , 2000 , 8, 1-29	0.8	11
29	SIZE-SPECIFIC SENSITIVITY: APPLYING A NEW STRUCTURED POPULATION MODEL. <i>Ecology</i> , 2000 , 81, 694-708	4.6	440
28	WHEN IS IT MEANINGFUL TO ESTIMATE AN EXTINCTION PROBABILITY?. <i>Ecology</i> , 2000 , 81, 2040-2047	4.6	152
27	Inferring Colonization Processes from Population Dynamics in Spatially Structured Predator-Prey Systems. <i>Ecology</i> , 2000 , 81, 3350	4.6	15
26	Cholera dynamics and El Niño-Southern Oscillation. <i>Science</i> , 2000 , 289, 1766-9	33.3	392
25	Crossing the hopf bifurcation in a live predator-prey system. <i>Science</i> , 2000 , 290, 1358-60	33.3	289
24	LIVING ON THE EDGE OF CHAOS: POPULATION DYNAMICS OF FENNOSCANDIAN VOLES. <i>Ecology</i> , 2000 , 81, 3099-3116	4.6	98
23	WHEN IS IT MEANINGFUL TO ESTIMATE AN EXTINCTION PROBABILITY? 2000 , 81, 2040		11
22	LINKING ECOLOGICAL PATTERNS TO ENVIRONMENTAL FORCING VIA NONLINEAR TIME SERIES MODELS 2000 , 81, 2767		3
21	SIZE-SPECIFIC SENSITIVITY: APPLYING A NEW STRUCTURED POPULATION MODEL 2000 , 81, 694		7
20	LIVING ON THE EDGE OF CHAOS: POPULATION DYNAMICS OF FENNOSCANDIAN VOLES 2000 , 81, 3099		3
19	WHY DO POPULATIONS CYCLE? A SYNTHESIS OF STATISTICAL AND MECHANISTIC MODELING APPROACHES. <i>Ecology</i> , 1999 , 80, 1789-1805	4.6	242

18	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> , 1999 , 53, 111	3.8	32
17	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> , 1999 , 53, 111-122	3.8	31
16	Speed of invasion in lattice population models: pair-edge approximation. <i>Journal of Mathematical Biology</i> , 1998 , 36, 469-484	2	54
15	A SPATIALLY EXPLICIT STOCHASTIC MODEL DEMONSTRATES THE FEASIBILITY OF WRIGHTS SHIFTING BALANCE THEORY. <i>Evolution; International Journal of Organic Evolution</i> , 1998 , 52, 1834-1839	3.8	20
14	QUANTITATIVE GENETIC VARIANCE MAINTAINED BY FLUCTUATING SELECTION WITH OVERLAPPING GENERATIONS: VARIANCE COMPONENTS AND COVARIANCES. <i>Evolution; International Journal of Organic Evolution</i> , 1997 , 51, 682-696	3.8	56
13	Inferring mechanism from time-series data: Delay-differential equations. <i>Physica D: Nonlinear Phenomena</i> , 1997 , 110, 182-194	3.3	38
12	Patterns of genetic polymorphism maintained by fluctuating selection with overlapping generations. <i>Theoretical Population Biology</i> , 1996 , 50, 31-65	1.2	62
11	Phenotypic Variation in a Zooplankton Egg Bank. <i>Ecology</i> , 1996 , 77, 2382-2392	4.6	43
10	Environmental fluctuations and the maintenance of genetic diversity in age or stage-structured populations. <i>Bulletin of Mathematical Biology</i> , 1996 , 58, 103-27	2.1	28
9	Environmental fluctuations and the maintenance of genetic diversity in age or stage-structured populations. <i>Bulletin of Mathematical Biology</i> , 1996 , 58, 103-127	2.1	
8	Chaos in a Noisy World: New Methods and Evidence from Time-Series Analysis. <i>American Naturalist</i> , 1995 , 145, 343-375	3.7	373
7	THE EVOLUTIONARILY STABLE PHENOTYPE DISTRIBUTION IN A RANDOM ENVIRONMENT. <i>Evolution; International Journal of Organic Evolution</i> , 1995 , 49, 337-350	3.8	125
6	Role of Overlapping Generations in Maintaining Genetic Variation in a Fluctuating Environment. <i>American Naturalist</i> , 1994 , 143, 403-417	3.7	311
5	Estimating the Lyapunov Exponent of a Chaotic System with Nonparametric Regression. <i>Journal of the American Statistical Association</i> , 1992 , 87, 682-695	2.8	97
4	Alternate plant life history strategies and coexistence in randomly varying environments. <i>Plant Ecology</i> , 1987 , 69, 199-208		63
3	Alternate plant life history strategies and coexistence in randomly varying environments 1987 , 199-208		3
2	Estimating the Lyapunov Exponent of a Chaotic System with Nonparametric Regression		36
1	Host-pathogen Immune Feedbacks Can Explain Widely Divergent Outcomes from Similar Infections		3

