

Steinar Engen

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

3,780
citations

218677

26
h-index

197818

49
g-index

67
all docs

67
docs citations

67
times ranked

3598
citing authors

#	ARTICLE	IF	CITATIONS
1	Harvesting can stabilise population fluctuations and buffer the impacts of extreme climatic events. <i>Ecology Letters</i> , 2022, 25, 863-875.	6.4	3
2	Density-dependent selection and the maintenance of colour polymorphism in barn owls. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, .	2.6	5
3	Structure of the G -matrix in relation to phenotypic contributions to fitness. <i>Theoretical Population Biology</i> , 2021, 138, 43-56.	1.1	7
4	The ecological dynamics of the coronavirus epidemics during transmission from outside sources when R_0 is successfully managed below one. <i>Royal Society Open Science</i> , 2021, 8, 202234.	2.4	2
5	Age-dependent patterns of spatial autocorrelation in fish populations. <i>Ecology</i> , 2021, 102, e03523.	3.2	8
6	Spatial Scales of Population Synchrony in Predator-Prey Systems. <i>American Naturalist</i> , 2020, 195, 216-230.	2.1	21
7	Spatial covariation of competing species in a fluctuating environment. <i>Ecology</i> , 2020, 101, e02901.	3.2	24
8	Decomposing demographic contributions to the effective population size with moose as a case study. <i>Molecular Ecology</i> , 2020, 29, 56-70.	3.9	15
9	Phenotypic evolution in stochastic environments: The contribution of frequency- and density-dependent selection. <i>Evolution; International Journal of Organic Evolution</i> , 2020, 74, 1923-1941.	2.3	15
10	Spatial scaling of population synchrony in marine fish depends on their life history. <i>Ecology Letters</i> , 2019, 22, 1787-1796.	6.4	21
11	Towards a predictive conservation biology: the devil is in the behaviour. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20190013.	4.0	11
12	Ecological dynamics and large scale phenotypic differentiation in density-dependent populations. <i>Theoretical Population Biology</i> , 2019, 127, 133-143.	1.1	4
13	Accounting for interspecific competition and age structure in demographic analyses of density dependence improves predictions of fluctuations in population size. <i>Ecology Letters</i> , 2019, 22, 797-806.	6.4	12
14	Spatial distribution and optimal harvesting of an age-structured population in a fluctuating environment. <i>Mathematical Biosciences</i> , 2018, 296, 36-44.	1.9	11
15	Spatial scales of population synchrony of two competing species: effects of harvesting and strength of competition. <i>Oikos</i> , 2018, 127, 1459-1470.	2.7	16
16	The effect of harvesting on the spatial synchrony of population fluctuations. <i>Theoretical Population Biology</i> , 2018, 123, 28-34.	1.1	20
17	Demographic stochasticity and temporal autocorrelation in the dynamics of structured populations. <i>Oikos</i> , 2017, 126, 462-471.	2.7	7
18	Interactions between demography and environmental effects are important determinants of population dynamics. <i>Science Advances</i> , 2017, 3, e1602298.	10.3	57

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19	How are species interactions structured in species-rich communities? A new method for analysing time-series data. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170768.	2.6	84
20	Evolution of stochastic demography with life history tradeoffs in density-dependent age-structured populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11582-11590.	7.1	40
21	Modelling time to population extinction when individual reproduction is autocorrelated. <i>Ecology Letters</i> , 2017, 20, 1385-1394.	6.4	6
22	Reversal of response to artificial selection on body size in a wild passerine. <i>Evolution; International Journal of Organic Evolution</i> , 2017, 71, 2062-2079.	2.3	14
23	Spatial synchrony and harvesting in fluctuating populations: Relaxing the small noise assumption. <i>Theoretical Population Biology</i> , 2017, 116, 18-26.	1.1	12
24	r - and K -selection in fluctuating populations is determined by the evolutionary trade-off between two fitness measures: Growth rate and lifetime reproductive success. <i>Evolution; International Journal of Organic Evolution</i> , 2017, 71, 167-173.	2.3	43
25	Neutral or non-neutral communities: temporal dynamics provide the answer. <i>Oikos</i> , 2017, 126, 318-331.	2.7	10
26	Harvest-induced phenotypic selection in an island population of moose, <i>Alces alces</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 1486-1500.	2.3	22
27	Density dependence in an age-structured population of great tits: identifying the critical age classes. <i>Ecology</i> , 2016, 97, 2479-2490.	3.2	28
28	Optimal age of maturity in fluctuating environments under r - and K -selection. <i>Oikos</i> , 2016, 125, 1577-1585.	2.7	20
29	Demographic routes to variability and regulation in bird populations. <i>Nature Communications</i> , 2016, 7, 12001.	12.8	74
30	Evidence for r - and K -selection in a wild bird population: a reciprocal link between ecology and evolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20152411.	2.6	50
31	Characteristics of temporal changes in communities where dynamics differ between species. <i>Theoretical Population Biology</i> , 2016, 111, 65-74.	1.1	1
32	Effective size of density-dependent populations in fluctuating environments. <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 2431-2446.	2.3	12
33	Phenotypic evolution by distance in fluctuating environments: The contribution of dispersal, selection and random genetic drift. <i>Theoretical Population Biology</i> , 2016, 109, 16-27.	1.1	8
34	Spatial synchrony in population dynamics: The effects of demographic stochasticity and density regulation with a spatial scale. <i>Mathematical Biosciences</i> , 2016, 274, 17-24.	1.9	12
35	An integrated population model for a long-lived ungulate: more efficient data use with Bayesian methods. <i>Oikos</i> , 2015, 124, 806-816.	2.7	43
36	The concept of fitness in fluctuating environments. <i>Trends in Ecology and Evolution</i> , 2015, 30, 273-281.	8.7	160

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37	Evolutionary Consequences of Nonselective Harvesting in Density-Dependent Populations. <i>American Naturalist</i> , 2014, 184, 714-726.	2.1	22
38	EVOLUTION IN FLUCTUATING ENVIRONMENTS: DECOMPOSING SELECTION INTO ADDITIVE COMPONENTS OF THE ROBERTSON-PRICE EQUATION. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 854-865.	2.3	27
39	ESTIMATING PHENOTYPIC SELECTION IN AGE-STRUCTURED POPULATIONS BY REMOVING TRANSIENT FLUCTUATIONS. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 2509-2523.	2.3	22
40	Generic ecological impact assessments of alien species in Norway: a semi-quantitative set of criteria. <i>Biodiversity and Conservation</i> , 2013, 22, 37-62.	2.6	38
41	Estimating the effect of temporally autocorrelated environments on the demography of density-independent age-structured populations. <i>Methods in Ecology and Evolution</i> , 2013, 4, 573-584.	5.2	24
42	A Quantitative Genetic Model of r - and K -Selection in a Fluctuating Population. <i>American Naturalist</i> , 2013, 181, 725-736.	2.1	47
43	Interspecific differences in stochastic population dynamics explains variation in Taylor's temporal power law. <i>Oikos</i> , 2013, 122, 1207-1216.	2.7	11
44	EVOLUTION OF A PLASTIC QUANTITATIVE TRAIT IN AN AGE-STRUCTURED POPULATION IN A FLUCTUATING ENVIRONMENT. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 2893-2906.	2.3	29
45	Integral projection models for finite populations in a stochastic environment. <i>Ecology</i> , 2011, 92, 1146-1156.	3.2	5
46	Estimating the ratio of effective to actual size of an age-structured population from individual demographic data. <i>Journal of Evolutionary Biology</i> , 2010, 23, 1148-1158.	1.7	25
47	Reproductive Value and the Stochastic Demography of Age-Structured Populations. <i>American Naturalist</i> , 2009, 174, 795-804.	2.1	72
48	Reproductive Value and Fluctuating Selection in an Age-Structured Population. <i>Genetics</i> , 2009, 183, 629-637.	2.9	21
49	Fixation probability of beneficial mutations in a fluctuating population. <i>Genetical Research</i> , 2009, 91, 73-82.	0.9	16
50	Forms of density regulation and (quasi-) stationary distributions of population sizes in birds. <i>Oikos</i> , 2008, 117, 1197-1208.	2.7	20
51	Effects of climate on population fluctuations of ibex. <i>Global Change Biology</i> , 2008, 14, 218-228.	9.5	45
52	ANATOMY OF A BOTTLENECK: DIAGNOSING FACTORS LIMITING POPULATION GROWTH IN THE PUERTO RICAN PARROT. <i>Ecological Monographs</i> , 2008, 78, 185-203.	5.4	42
53	Stochastic growth and extinction in a spatial geometric Brownian population model with migration and correlated noise. <i>Mathematical Biosciences</i> , 2007, 209, 240-255.	1.9	16
54	The extended Moran effect and large-scale synchronous fluctuations in the size of great tit and blue tit populations. <i>Journal of Animal Ecology</i> , 2007, 76, 315-325.	2.8	76

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55	EFFECTIVE SIZE OF FLUCTUATING POPULATIONS WITH TWO SEXES AND OVERLAPPING GENERATIONS. Evolution; International Journal of Organic Evolution, 2007, 61, 1873-1885.	2.3	51
56	Estimating the pattern of synchrony in fluctuating populations. Journal of Animal Ecology, 2005, 74, 601-611.	2.8	55
57	Harvesting strategies for Norwegian spring-spawning herring. Oikos, 2005, 110, 567-577.	2.7	23
58	Extinction in relation to demographic and environmental stochasticity in age-structured models. Mathematical Biosciences, 2005, 195, 210-227.	1.9	83
59	Demographic Characteristics and Population Dynamical Patterns of Solitary Birds. Science, 2002, 295, 2070-2073.	12.6	143
60	Pattern of variation in avian population growth rates. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 1185-1195.	4.0	105
61	Optimal harvest of age-structured populations of moose <i>Alces alces</i> in a fluctuating environment. Wildlife Biology, 2001, 7, 171-179.	1.4	50
62	Spatial Scale of Population Synchrony: Environmental Correlation versus Dispersal and Density Regulation. American Naturalist, 1999, 154, 271-281.	2.1	243
63	THRESHOLD HARVESTING FOR SUSTAINABILITY OF FLUCTUATING RESOURCES. Ecology, 1997, 78, 1341-1350.	3.2	182
64	Harvesting Strategies for Fluctuating Populations Based on Uncertain Population Estimates. Journal of Theoretical Biology, 1997, 186, 201-212.	1.7	73
65	Density-Dependence and Optimal Harvesting of Fluctuating Populations. Oikos, 1996, 76, 40.	2.7	83
66	Optimal Harvesting of Fluctuating Populations with a Risk of Extinction. American Naturalist, 1995, 145, 728-745.	2.1	191