

Brigitte Tenhumberg

List of Publications by Year in descending order

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64
papers

2,009
citations

331670

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377865

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docs citations

64
times ranked

2370
citing authors

#	ARTICLE	IF	CITATIONS
1	IMPROVING PRECISION AND REDUCING BIAS IN BIOLOGICAL SURVEYS: ESTIMATING FALSE-NEGATIVE ERROR RATES. , 2003, 13, 1790-1801.		633
2	Syrphids as natural enemies of cereal aphids in Germany: Aspects of their biology and efficacy in different years and regions. Agriculture, Ecosystems and Environment, 1995, 52, 39-43.	5.3	125
3	Linking Wild and Captive Populations to Maximize Species Persistence: Optimal Translocation Strategies. Conservation Biology, 2004, 18, 1304-1314.	4.7	92
4	Feeding and survival in parasitic wasps: sugar concentration and timing matter. Oikos, 2001, 95, 425-430.	2.7	89
5	DO HARVEST REFUGES BUFFER KANGAROOS AGAINST EVOLUTIONARY RESPONSES TO SELECTIVE HARVESTING?. Ecology, 2004, 85, 2003-2017.	3.2	76
6	Estimating Predatory Efficiency of <i>Episyrphus balteatus</i> (Diptera: Syrphidae) in Cereal Fields. Environmental Entomology, 1995, 24, 687-691.	1.4	51
7	Optimal time allocation in parasitic wasps searching for hosts and food. Oikos, 2006, 113, 121-131.	2.7	42
8	Model complexity affects transient population dynamics following a dispersal event: a case study with pea aphids. Ecology, 2009, 90, 1878-1890.	3.2	42
9	Estimating the frequency of <i>Cry1F</i> resistance in field populations of the European corn borer (Lepidoptera: Crambidae). Pest Management Science, 2014, 70, 725-733.	3.4	41
10	Time-lagged effects of weather on plant demography: drought and <i>Astragalus scaphoides</i> . Ecology, 2018, 99, 915-925.	3.2	39
11	Herbivore-Mediated Ecological Costs of Reproduction Shape the Life History of an Iteroparous Plant. American Naturalist, 2008, 171, 141-149.	2.1	37
12	The Sweet Tooth of Adult Parasitoid <i>Cotesia rubecula</i> : Ignoring Hosts for Nectar?. Journal of Insect Behavior, 2004, 17, 459-476.	0.7	35
13	Submaximal Oviposition Rates in a Mymarid Parasitoid: Choosiness Should Not Be Ignored. Ecology, 1995, 76, 1990-1993.	3.2	33
14	Contributions of demography and dispersal parameters to the spatial spread of a stage-structured insect invasion. Ecological Applications, 2010, 20, 620-633.	3.8	33
15	Monte Carlo analysis of parameter uncertainty in matrix models for the weed <i>Cirsium vulgare</i> . Journal of Applied Ecology, 2008, 45, 438-447.	4.0	32
16	Does masting scale with plant size? High reproductive variability and low synchrony in small and unproductive individuals. Annals of Botany, 2020, 126, 971-979.	2.9	28
17	Global asymptotic stability of plant-seed bank models. Journal of Mathematical Biology, 2014, 69, 1-37.	1.9	27
18	Optimal patch-leaving behaviour: a case study using the parasitoid <i>Cotesia rubecula</i> . Journal of Animal Ecology, 2001, 70, 683-691.	2.8	26

#	ARTICLE	IF	CITATIONS
19	Management recommendations based on matrix projection models: The importance of considering biological limits. <i>Biological Conservation</i> , 2008, 141, 517-523.	4.1	26
20	Global asymptotic stability of density dependent integral population projection models. <i>Theoretical Population Biology</i> , 2012, 81, 81-87.	1.1	26
21	Life-history decisions under predation risk: Importance of a game perspective. <i>Evolutionary Ecology</i> , 1998, 12, 701-715.	1.2	25
22	Composite random search strategies based on non-directional sensory cues. <i>Ecological Complexity</i> , 2015, 22, 126-138.	2.9	25
23	Effects of virus on plant fecundity and population dynamics. <i>New Phytologist</i> , 2014, 202, 1346-1356.	7.3	24
24	Feedback control systems analysis of density dependent population dynamics. <i>Systems and Control Letters</i> , 2012, 61, 309-315.	2.3	23
25	Disturbance Frequency and Vertical Distribution of Seeds Affect Long-Term Population Dynamics: A Mechanistic Seed Bank Model. <i>American Naturalist</i> , 2013, 182, 180-190.	2.1	21
26	Modeling effects of ecological factors on evolution of polygenic pesticide resistance. <i>Journal of Theoretical Biology</i> , 2018, 456, 224-232.	1.7	20
27	Identifying landscape scale patterns from individual scale processes. <i>Ecological Modelling</i> , 2006, 199, 442-450.	2.5	19
28	Native insect herbivory limits population growth rate of a non-native thistle. <i>Oecologia</i> , 2014, 175, 129-138.	2.0	18
29	Stochastic Variation in Food Availability Influences Weight and Age at Maturity. <i>Journal of Theoretical Biology</i> , 2000, 202, 257-272.	1.7	17
30	Integral projection models show exotic thistle is more limited than native thistle by ambient competition and herbivory. <i>Ecosphere</i> , 2015, 6, 1-18.	2.2	16
31	Choice of density-dependent seedling recruitment function affects predicted transient dynamics: a case study with <i>Platte</i> thistle. <i>Theoretical Ecology</i> , 2012, 5, 387-401.	1.0	15
32	Structured Population Dynamics: An Introduction to Integral Modeling. <i>Mathematics Magazine</i> , 2010, 83, 243-257.	0.1	15
33	Comparison of the wing polyphenic response of pea aphids (<i>Acyrtosiphon pisum</i>) to crowding and predator cues. <i>Ecological Entomology</i> , 2014, 39, 263-266.	2.2	14
34	Swapping space for time and unfair tests of ecological models. <i>Austral Ecology</i> , 2000, 25, 327-331.	1.5	13
35	The Effect of Resource Aggregation at Different Scales: Optimal Foraging Behavior of <i>Cotesia rubecula</i> . <i>American Naturalist</i> , 2001, 158, 505-518.	2.1	13
36	Modeling and Analysis of a Density-Dependent Stochastic Integral Projection Model for a Disturbance Specialist Plant and Its Seed Bank. <i>Bulletin of Mathematical Biology</i> , 2014, 76, 1809-1834.	1.9	13

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37	Modeling shattercane dynamics in herbicide-tolerant grain sorghum cropping systems. <i>Ecological Modelling</i> , 2017, 343, 131-141.	2.5	13
38	Parameterizing the growth-decline boundary for uncertain population projection models. <i>Theoretical Population Biology</i> , 2009, 75, 85-97.	1.1	12
39	Insect herbivory and propagule pressure influence <i>Cirsium vulgare</i> invasiveness across the landscape. <i>Ecology</i> , 2012, 93, 1787-1794.	3.2	12
40	Influence of aphid honeydew on the foraging behaviour of <i>Hippodamia convergens</i> larvae. <i>Ecological Entomology</i> , 2012, 37, 184-192.	2.2	12
41	Integral control for population management. <i>Journal of Mathematical Biology</i> , 2015, 70, 1015-1063.	1.9	12
42	Indirect evidence of density-dependent population regulation in <i>Aponomma hydrosauri</i> (Acari). <i>Journal of Animal Ecology</i> , 2010, 79, 1150-1154.	1.5	11
43	Frequency-dependent population dynamics: Effect of sex ratio and mating system on the elasticity of population growth rate. <i>Theoretical Population Biology</i> , 2014, 97, 49-56.	1.1	11
44	Effects of temporal variation in temperature and density dependence on insect population dynamics. <i>Ecosphere</i> , 2016, 7, e01287.	2.2	11
45	Simple Adaptive Control for Positive Linear Systems with Applications to Pest Management. <i>SIAM Journal on Applied Mathematics</i> , 2016, 76, 238-275.	1.8	11
46	Management of invasive insect species using optimal control theory. <i>Ecological Modelling</i> , 2018, 381, 36-45.	2.5	11
47	Identifying mechanistic models of spatial behaviour using pattern-based modelling: An example from lizard home ranges. <i>Ecological Modelling</i> , 2007, 208, 307-316.	2.5	10
48	Contemporary sexual selection does not explain variation in male display traits among populations. <i>Evolution; International Journal of Organic Evolution</i> , 2019, 73, 1927-1940.	2.3	10
49	Modeling the evolution of herbicide resistance in weed species with a complex life cycle. <i>Ecological Applications</i> , 2022, 32, e02473.	3.8	8
50	Temporal Variation in Predation Risk May Explain Daily Rhythms of Foraging Behavior in an Orb-Weaving Spider. <i>American Naturalist</i> , 2018, 191, 74-87.	2.1	7
51	Towards understanding factors influencing the benefit of diversity in predator communities for prey suppression. <i>Ecosphere</i> , 2020, 11, e03271.	2.2	5
52	Response of population size to changing vital rates in random environments. <i>Theoretical Ecology</i> , 2013, 6, 21-29.	1.0	4
53	Larval Performance and Kill Rate of Convergent Ladybird Beetles, <i>Hippodamia convergens</i> , on Black Bean Aphids, <i>Aphis fabae</i> , and Pea Aphids, <i>Acyrtosiphon pisum</i> . <i>Journal of Insect Science</i> , 2013, 13, 1-10.	0.9	4
54	Variation in the local population dynamics of the short-lived <i>Opuntia macrorhiza</i> (Cactaceae). <i>Ecology</i> , 2015, 96, 800-807.	3.2	3

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55	Assessing the Influence of Temporal Autocorrelations on the Population Dynamics of a Disturbance Specialist Plant Population in a Random Environment. <i>American Naturalist</i> , 2017, 190, 570-583.	2.1	3
56	Presence of fruits decreases probability of retaining flowers in a sequentially flowering plant. <i>AoB PLANTS</i> , 2018, 10, ply033.	2.3	3
57	Creating an Interdisciplinary Research Course in Mathematical Biology. , 2013, , 133-138.		3
58	Population Dynamics of the Western Prickly Pear, <i>Opuntia macrorhiza</i> (Cactaceae). <i>Southwestern Naturalist</i> , 2011, 56, 147-153.	0.1	2
59	Southern Corn Rootworm (Coleoptera: Chrysomelidae) Adult Emergence and Population Growth Assessment After Selection With Vacuolar ATPase-A double-stranded RNA Over Multiple Generations. <i>Journal of Economic Entomology</i> , 2019, 112, 1354-1364.	1.8	2
60	Optimal resource allocation and prolonged dormancy strategies in herbaceous plants. <i>Journal of Ecology</i> , 2021, 109, 218-233.	4.0	2
61	An Interdisciplinary Research Course in Theoretical Ecology for Young Undergraduates. , 0, , 69-82.		1
62	Dynamic observers for unknown populations. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2021, 26, 3279.	0.9	1
63	Spectral properties of a non-compact operator in ecology. <i>Journal of Mathematical Biology</i> , 2021, 82, 50.	1.9	1
64	Herbicide Resistance Evolution in Johnsongrass. <i>Bulletin of the Ecological Society of America</i> , 2022, 103, .	0.2	0