Brigitte Tenhumberg

List of Publications by Year
in descending order

64 papers	2,009 citations	331670 21 h-index	377865 34 g-index
64 all docs	64 docs citations	64 times ranked	2370 citing authors

#	Article	IF	Citations
1	Modeling the evolution of herbicide resistance in weed species with a complex life cycle. Ecological Applications, 2022, 32, e02473.	3.8	8
2	Herbicide Resistance Evolution in Johnsongrass. Bulletin of the Ecological Society of America, 2022, 103, .	0.2	0
3	Optimal resource allocation and prolonged dormancy strategies in herbaceous plants. Journal of Ecology, 2021, 109, 218-233.	4.0	2
4	Dynamic observers for unknown populations. Discrete and Continuous Dynamical Systems - Series B, 2021, 26, 3279.	0.9	1
5	Spectral properties of a non-compact operator in ecology. Journal of Mathematical Biology, 2021, 82, 50.	1.9	1
6	Towards understanding factors influencing the benefit of diversity in predator communities for prey suppression. Ecosphere, 2020, 11, e03271.	2.2	5
7	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
8	Contemporary sexual selection does not explain variation in male display traits among populations. Evolution; International Journal of Organic Evolution, 2019, 73, 1927-1940.	2.3	10
9	Southern Corn Rootworm (Coleoptera: Chrysomelidae) Adult Emergence and Population Growth Assessment After Selection With Vacuolar ATPase-A double-stranded RNA Over Multiple Generations. Journal of Economic Entomology, 2019, 112, 1354-1364.	1.8	2
10	Timeâ€lagged effects of weather on plant demography: drought and <i>Astragalus scaphoides</i>. Ecology, 2018, 99, 915-925.	3.2	39
11	Temporal Variation in Predation Risk May Explain Daily Rhythms of Foraging Behavior in an Orb-Weaving Spider. American Naturalist, 2018, 191, 74-87.	2.1	7
12	Presence of fruits decreases probability of retaining flowers in a sequentially flowering plant. AoB PLANTS, 2018, 10, ply033.	2.3	3
13	Modeling effects of ecological factors on evolution of polygenic pesticide resistance. Journal of Theoretical Biology, 2018, 456, 224-232.	1.7	20
14	Management of invasive insect species using optimal control theory. Ecological Modelling, 2018, 381, 36-45.	2.5	11
15	Assessing the Influence of Temporal Autocorrelations on the Population Dynamics of a Disturbance Specialist Plant Population in a Random Environment. American Naturalist, 2017, 190, 570-583.	2.1	3
16	Modeling shattercane dynamics in herbicide-tolerant grain sorghum cropping systems. Ecological Modelling, 2017, 343, 131-141.	2.5	13
17	Effects of temporal variation in temperature and density dependence on insect population dynamics. Ecosphere, 2016, 7, e01287.	2.2	11
18	Simple Adaptive Control for Positive Linear Systems with Applications to Pest Management. SIAM Journal on Applied Mathematics, 2016, 76, 238-275.	1.8	11

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19	Integral projection models show exotic thistle is more limited than native thistle by ambient competition and herbivory. Ecosphere, 2015, 6, 1-18.	2.2	16
20	Composite random search strategies based on non-directional sensory cues. Ecological Complexity, 2015, 22, 126-138.	2.9	25
21	Variation in the local population dynamics of the short-livedOpuntia macrorhiza(Cactaceae). Ecology, 2015, 96, 800-807.	3.2	3
22	Integral control for population management. Journal of Mathematical Biology, 2015, 70, 1015-1063.	1.9	12
23	Comparison of the wing polyphenic response of pea aphids (<i>Acyrthosiphon pisum</i>) to crowding and predator cues. Ecological Entomology, 2014, 39, 263-266.	2.2	14
24	Estimating the frequency of <scp>Cry1F</scp> resistance in field populations of the European corn borer (Lepidoptera: Crambidae). Pest Management Science, 2014, 70, 725-733.	3.4	41
25	Native insect herbivory limits population growth rate of a non-native thistle. Oecologia, 2014, 175, 129-138.	2.0	18
26	Global asymptotic stability of plant-seed bank models. Journal of Mathematical Biology, 2014, 69, 1-37.	1.9	27
27	Frequency-dependent population dynamics: Effect of sex ratio and mating system on the elasticity of population growth rate. Theoretical Population Biology, 2014, 97, 49-56.	1.1	11
28	Effects of virus on plant fecundity and population dynamics. New Phytologist, 2014, 202, 1346-1356.	7.3	24
29	Modeling and Analysis of a Density-Dependent Stochastic Integral Projection Model for a Disturbance Specialist Plant and Its Seed Bank. Bulletin of Mathematical Biology, 2014, 76, 1809-1834.	1.9	13
30	Disturbance Frequency and Vertical Distribution of Seeds Affect Long-Term Population Dynamics: A Mechanistic Seed Bank Model. American Naturalist, 2013, 182, 180-190.	2.1	21
31	Response of population size to changing vital rates in random environments. Theoretical Ecology, 2013, 6, 21-29.	1.0	4
32	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>Acyrthosiphon pisum</i>. Journal of Insect Science, 2013, 13, 1-10.	0.9	4
33	Creating an Interdisciplinary Research Course in Mathematical Biology. , 2013, , 133-138.		3
34	Insect herbivory and propagule pressure influenceCirsium vulgareinvasiveness across the landscape. Ecology, 2012, 93, 1787-1794.	3.2	12
35	Choice of density-dependent seedling recruitment function affects predicted transient dynamics: a case study with Platte thistle. Theoretical Ecology, 2012, 5, 387-401.	1.0	15
36	Feedback control systems analysis of density dependent population dynamics. Systems and Control Letters, 2012, 61, 309-315.	2.3	23

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37	Global asymptotic stability of density dependent integral population projection models. Theoretical Population Biology, 2012, 81, 81-87.	1.1	26
38	Influence of aphid honeydew on the foraging behaviour of <i>Hippodamia convergens</i> larvae. Ecological Entomology, 2012, 37, 184-192.	2.2	12
39	Population Dynamics of the Western Prickly Pear, Opuntia macrorhiza (Cactaceae). Southwestern Naturalist, 2011, 56, 147-153.	0.1	2
40	Contributions of demography and dispersal parameters to the spatial spread of a stageâ€structured insect invasion. Ecological Applications, 2010, 20, 620-633.	3.8	33
41	Structured Population Dynamics: An Introduction to Integral Modeling. Mathematics Magazine, 2010, 83, 243-257.	0.1	15
42	Model complexity affects transient population dynamics following a dispersal event: a case study with pea aphids. Ecology, 2009, 90, 1878-1890.	3.2	42
43	Parameterizing the growth-decline boundary for uncertain population projection models. Theoretical Population Biology, 2009, 75, 85-97.	1.1	12
44	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
45	Management recommendations based on matrix projection models: The importance of considering biological limits. Biological Conservation, 2008, 141, 517-523.	4.1	26
46	Herbivoreâ€Mediated Ecological Costs of Reproduction Shape the Life History of an Iteroparous Plant. American Naturalist, 2008, 171, 141-149.	2.1	37
47	Identifying mechanistic models of spatial behaviour using pattern-based modelling: An example from lizard home ranges. Ecological Modelling, 2007, 208, 307-316.	2.5	10
48	Optimal time allocation in parasitic wasps searching for hosts and food. Oikos, 2006, 113, 121-131.	2.7	42
49	Identifying landscape scale patterns from individual scale processes. Ecological Modelling, 2006, 199, 442-450.	2.5	19
50	Linking Wild and Captive Populations to Maximize Species Persistence: Optimal Translocation Strategies. Conservation Biology, 2004, 18, 1304-1314.	4.7	92
51	The Sweet Tooth of Adult Parasitoid Cotesia rubecula: Ignoring Hosts for Nectar?. Journal of Insect Behavior, 2004, 17, 459-476.	0.7	35
52	DO HARVEST REFUGES BUFFER KANGAROOS AGAINST EVOLUTIONARY RESPONSES TO SELECTIVE HARVESTING?. Ecology, 2004, 85, 2003-2017.	3.2	76
53	IMPROVING PRECISION AND REDUCING BIAS IN BIOLOGICAL SURVEYS: ESTIMATING FALSE-NEGATIVE ERROR RATES. , 2003, 13, 1790-1801.		633
54	Indirect evidence of density-dependent population regulation in Aponomma hydrosauri (Acari:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	1.5	11

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55	The Effect of Resource Aggregation at Different Scales: Optimal Foraging Behavior ofCotesia rubecula. American Naturalist, 2001, 158, 505-518.	2.1	13
56	Optimal patch-leaving behaviour: a case study using the parasitoid Cotesia rubecula. Journal of Animal Ecology, 2001, 70, 683-691.	2.8	26
57	Feeding and survival in parasitic wasps: sugar concentration and timing matter. Oikos, 2001, 95, 425-430.	2.7	89
58	Stochastic Variation in Food Availability Influences Weight and Age at Maturity. Journal of Theoretical Biology, 2000, 202, 257-272.	1.7	17
59	Swapping space for time and unfair tests of ecological models. Austral Ecology, 2000, 25, 327-331.	1.5	13
60	Life-history decisions under predation risk: Importance of a game perspective. Evolutionary Ecology, 1998, 12, 701-715.	1.2	25
61	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
62	Submaximal Oviposition Rates in a Mymarid Parasitoid: Choosiness Should Not Be Ignored. Ecology, 1995, 76, 1990-1993.	3.2	33
63	Estimating Predatory Efficiency of Episyrphus balteatus (Diptera: Syrphidae) in Cereal Fields. Environmental Entomology, 1995, 24, 687-691.	1.4	51
64	An Interdisciplinary Research Course in Theoretical Ecology for Young Undergraduates. , 0, , 69-82.		1