

Todd M Palmer

List of Publications by Citations

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

91
papers

7,121
citations

39
h-index

84
g-index

95
ext. papers

8,418
ext. citations

7.5
avg, IF

5.87
L-index

#	Paper	IF	Citations
91	Accelerated modern human-induced species losses: Entering the sixth mass extinction. <i>Science Advances</i> , 2015 , 1, e1400253	14.3	1603
90	Reciprocal rewards stabilize cooperation in the mycorrhizal symbiosis. <i>Science</i> , 2011 , 333, 880-2	33.3	1058
89	Mutualisms in a changing world: an evolutionary perspective. <i>Ecology Letters</i> , 2010 , 13, 1459-74	10	349
88	Skin shedding and tissue regeneration in African spiny mice (<i>Acomys</i>). <i>Nature</i> , 2012 , 489, 561-5	50.4	320
87	Plant ecology. Worldwide evidence of a unimodal relationship between productivity and plant species richness. <i>Science</i> , 2015 , 349, 302-5	33.3	228
86	Breakdown of an ant-plant mutualism follows the loss of large herbivores from an African savanna. <i>Science</i> , 2008 , 319, 192-5	33.3	211
85	Synergy of multiple partners, including freeloaders, increases host fitness in a multispecies mutualism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 17234-9	11.5	175
84	Spatial pattern enhances ecosystem functioning in an African savanna. <i>PLoS Biology</i> , 2010 , 8, e1000377	9.7	175
83	Large carnivores make savanna tree communities less thorny. <i>Science</i> , 2014 , 346, 346-9	33.3	139
82	Competition and coexistence: exploring mechanisms that restrict and maintain diversity within mutualist guilds. <i>American Naturalist</i> , 2003 , 162, S63-79	3.7	139
81	Competition and compensation among cattle, zebras, and elephants in a semi-arid savanna in Laikipia, Kenya. <i>Biological Conservation</i> , 2005 , 122, 351-359	6.2	137
80	The influences of patch shape and boundary contrast on insect response to fragmentation in California grasslands. <i>Landscape Ecology</i> , 2002 , 17, 647-656	4.3	119
79	KLEE: A long-term multi-species herbivore exclusion experiment in Laikipia, Kenya. <i>African Journal of Range and Forage Science</i> , 1997 , 14, 94-102	1.5	108
78	SPATIAL HABITAT HETEROGENEITY INFLUENCES COMPETITION AND COEXISTENCE IN AN AFRICAN ACACIA ANT GUILD. <i>Ecology</i> , 2003 , 84, 2843-2855	4.6	108
77	Sterilization and canopy modification of a swollen thorn acacia tree by a plant-ant. <i>Nature</i> , 1999 , 401, 578-581	50.4	104
76	Large herbivores facilitate savanna tree establishment via diverse and indirect pathways. <i>Journal of Animal Ecology</i> , 2010 , 79, 372-82	4.7	101
75	Short-term dynamics of an acacia ant community in Laikipia, Kenya. <i>Oecologia</i> , 2000 , 123, 425-435	2.9	88

74	Wars of attrition: colony size determines competitive outcomes in a guild of African acacia ants. <i>Animal Behaviour</i> , 2004 , 68, 993-1004	2.8	83
73	Defensive plant-ants stabilize megaherbivore-driven landscape change in an African savanna. <i>Current Biology</i> , 2010 , 20, 1768-72	6.3	82
72	Consequences of herbivory by native ungulates for the reproduction of a savanna tree. <i>Journal of Ecology</i> , 2007 , 95, 129-138	6	79
71	Change in dominance determines herbivore effects on plant biodiversity. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1925-1932	12.3	77
70	Effects of mammalian herbivore declines on plant communities: observations and experiments in an African savanna. <i>Journal of Ecology</i> , 2013 , 101, 1030-1041	6	74
69	Termites create spatial structure and govern ecosystem function by affecting N ₂ fixation in an East African savanna. <i>Ecology</i> , 2010 , 91, 1296-307	4.6	74
68	COMPETITION COLONIZATION TRADE-OFFS IN A GUILD OF AFRICAN ACACIA-ANTS. <i>Ecological Monographs</i> , 2002 , 72, 347-363	9	72
67	Piecewise disassembly of a large-herbivore community across a rainfall gradient: the UHURU experiment. <i>PLoS ONE</i> , 2013 , 8, e55192	3.7	70
66	Effects of simulated shoot and leaf herbivory on vegetative growth and plant defense in <i>Acacia drepanolobium</i> . <i>Oikos</i> , 2001 , 92, 515-521	4	64
65	Predator-induced collapse of niche structure and species coexistence. <i>Nature</i> , 2019 , 570, 58-64	50.4	61
64	Ecological erosion of an Afrotropical forest and potential consequences for tree recruitment and forest biomass. <i>Biological Conservation</i> , 2013 , 163, 122-130	6.2	59
63	Burning bridges: priority effects and the persistence of a competitively subordinate acacia-ant in Laikipia, Kenya. <i>Oecologia</i> , 2002 , 133, 372-379	2.9	59
62	Mutualism as reciprocal exploitation: African plant-ants defend foliar but not reproductive structures. <i>Ecology</i> , 2007 , 88, 3004-11	4.6	58
61	Termites, vertebrate herbivores, and the fruiting success of <i>Acacia drepanolobium</i> . <i>Ecology</i> , 2010 , 91, 399-407	4.6	55
60	The high cost of mutualism: effects of four species of East African ant symbionts on their myrmecophyte host tree. <i>Ecology</i> , 2011 , 92, 1073-82	4.6	50
59	Cryptic herbivores mediate the strength and form of ungulate impacts on a long-lived savanna tree. <i>Ecology</i> , 2011 , 92, 1626-36	4.6	48
58	Low functional redundancy among mammalian browsers in regulating an encroaching shrub (<i>Solanum campylacanthum</i>) in African savannah. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014 , 281, 20140390	4.4	47
57	RELAXATION OF INDUCED INDIRECT DEFENSES OF ACACIAS FOLLOWING EXCLUSION OF MAMMALIAN HERBIVORES. <i>Ecology</i> , 2004 , 85, 609-614	4.6	47

56	Elephants in the understory: opposing direct and indirect effects of consumption and ecosystem engineering by megaherbivores. <i>Ecology</i> , 2016 , 97, 3219-3230	4.6	45
55	Large herbivores promote habitat specialization and beta diversity of African savanna trees. <i>Ecology</i> , 2016 , 97, 2640-2657	4.6	42
54	Promises and challenges in insect-plant interactions. <i>Entomologia Experimentalis Et Applicata</i> , 2018 , 166, 319-343	2.1	42
53	Synergistic effects of fire and elephants on arboreal animals in an African savanna. <i>Journal of Animal Ecology</i> , 2015 , 84, 1637-45	4.7	39
52	Recovery of African wild dogs suppresses prey but does not trigger a trophic cascade. <i>Ecology</i> , 2015 , 96, 2705-14	4.6	36
51	Context-dependent effects of large-wildlife declines on small-mammal communities in central Kenya 2015 , 25, 348-60		33
50	Mechanisms of plant-plant interactions: concealment from herbivores is more important than abiotic-stress mediation in an African savannah. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014 , 281, 20132647	4.4	31
49	Enough is enough: the effects of symbiotic ant abundance on herbivory, growth, and reproduction in an African acacia. <i>Ecology</i> , 2013 , 94, 683-91	4.6	30
48	Conservation lessons from large-mammal manipulations in East African savannas: the KLEE, UHURU, and GLADE experiments. <i>Annals of the New York Academy of Sciences</i> , 2018 , 1429, 31-49	6.5	30
47	Disruption of a protective ant-plant mutualism by an invasive ant increases elephant damage to savanna trees. <i>Ecology</i> , 2015 , 96, 654-61	4.6	29
46	Interacting effects of land use and climate on rodent-borne pathogens in central Kenya. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017 , 372,	5.8	28
45	Bottle or Big-Scale Studies: How do we do Ecology?. <i>Ecology</i> , 1996 , 77, 681-685	4.6	26
44	Pollen Competition and Sporophyte Fitness in <i>Brassica campestris</i> : Does Intense Pollen Competition Result in Individuals with Better Pollen?. <i>Oikos</i> , 1994 , 69, 80	4	26
43	A comparison of volatiles in mandibular glands from three <i>Crematogaster</i> ant symbionts of the whistling thorn acacia. <i>Biochemical Systematics and Ecology</i> , 2002 , 30, 217-222	1.4	25
42	The influence of spatial heterogeneity on the behavior and growth of two herbivorous stream insects. <i>Oecologia</i> , 1995 , 104, 476-486	2.9	25
41	Climatic stress mediates the impacts of herbivory on plant population structure and components of individual fitness. <i>Journal of Ecology</i> , 2013 , 101, 1074-1083	6	23
40	Aridity weakens population-level effects of multiple species interactions on. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 543-548	11.5	20
39	Interacting effects of wildlife loss and climate on ticks and tick-borne disease. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017 , 284,	4.4	19

38	Ecological Importance of Large Herbivores in the Ewaso Ecosystem. <i>Smithsonian Contributions To Zoology</i> , 2011 , 43-53		18
37	Plant and small-mammal responses to large-herbivore exclusion in an African savanna: five years of the UHURU experiment. <i>Ecology</i> , 2014 , 95, 787-787	4.6	16
36	Mutualism in a community context 2015 , 159-180		16
35	Effects of fire on bird diversity and abundance in an East African savanna. <i>African Journal of Ecology</i> , 2006 , 44, 165-170	0.8	15
34	Good neighbors make good defenses: associational refuges reduce defense investment in African savanna plants. <i>Ecology</i> , 2018 , 99, 1724-1736	4.6	15
33	Habitat-specific AMF symbioses enhance drought tolerance of a native Kenyan grass. <i>Acta Oecologica</i> , 2017 , 78, 71-78	1.7	14
32	Climatic variation modulates the indirect effects of large herbivores on small-mammal habitat use. <i>Journal of Animal Ecology</i> , 2017 , 86, 739-748	4.7	13
31	A role for indirect facilitation in maintaining diversity in a guild of African acacia ants. <i>Ecology</i> , 2013 , 94, 1531-9	4.6	12
30	A Comparison of two Sampling Methods for Surveying Mammalian Herbivore Impacts on Beetle Communities in the Canopy of Acacia drepanolobium in Kenya. <i>African Entomology</i> , 2010 , 18, 87-98	0.5	12
29	Ecological barriers to early colony establishment in three coexisting acacia-ant species in Kenya. <i>Insectes Sociaux</i> , 2005 , 52, 393-401	1.5	12
28	The high cost of mutualism: effects of four species of East African ant symbionts on their myrmecophyte host tree 2011 , 92, 1073		12
27	Seasonal patterns in decomposition and nutrient release from East African savanna grasses grown under contrasting nutrient conditions. <i>Agriculture, Ecosystems and Environment</i> , 2014 , 188, 12-19	5.7	11
26	Carbohydrate as Fuel for Foraging, Resource Defense and Colony Growth in Long-term Experiment with the Plant-ant <i>Crematogaster nigriceps</i> . <i>Biotropica</i> , 2013 , 45, 620-627	2.3	10
25	Leveraging nature's backup plans to incorporate interspecific interactions and resilience into restoration. <i>Restoration Ecology</i> , 2016 , 24, 434-440	3.1	8
24	Influence of neighboring plants on the dynamics of an ant-acacia protection mutualism. <i>Ecology</i> , 2017 , 98, 3034-3043	4.6	7
23	OBSERVATIONS ON THE DIETARY CHOICE OF FREE-RANGING JUVENILE OSTRICHES. <i>Ostrich</i> , 1994 , 65, 251-255	0.9	7
22	Economy of scale: third partner strengthens a keystone ant-plant mutualism. <i>Ecology</i> , 2018 , 99, 335-346	4.6	6
21	Polygyny in the nest-site limited acacia-ant <i>Crematogaster mimosae</i> . <i>Insectes Sociaux</i> , 2013 , 60, 231-241	1.5	6

20	Colonisation and competition dynamics can explain incomplete sterilisation parasitism in ant-plant symbioses. <i>Ecology Letters</i> , 2014 , 17, 1290-8	10	6
19	Effects of entomopathogenic fungus <i>Metarhizium anisopliae</i> on non-target ants associated with <i>Odontotermes</i> spp. (Isoptera: Termitidae) termite mounds in Kenya. <i>International Journal of Tropical Insect Science</i> , 2016 , 36, 128-134	1	5
18	Impacts of worker density in colony-level aggression, expansion, and survival of the acacia-ant <i>Crematogaster mimosae</i> . <i>Ecological Monographs</i> , 2017 , 87, 246-259	9	3
17	Large mammals generate both top-down effects and extended trophic cascades on floral-visitor assemblages. <i>Journal of Tropical Ecology</i> , 2019 , 35, 185-198	1.3	3
16	Volatiles in the mandibular gland of <i>Tetraoponera penzigi</i> : A plant ant of the whistling thorn acacia. <i>Biochemical Systematics and Ecology</i> , 2006 , 34, 536-538	1.4	3
15	Mutualism disruption by an invasive ant reduces carbon fixation for a foundational East African ant-plant. <i>Ecology Letters</i> , 2021 , 24, 1052-1062	10	3
14	An invasive ant reduces diversity but does not disrupt a key ecosystem function in an African savanna. <i>Ecosphere</i> , 2016 , 7, e01502	3.1	3
13	Density dependence and the spread of invasive big-headed ants (<i>Pheidole megacephala</i>) in an East African savanna. <i>Oecologia</i> , 2021 , 195, 667-676	2.9	3
12	Large herbivores transform plant-pollinator networks in an African savanna. <i>Current Biology</i> , 2021 , 31, 2964-2971.e5	6.3	3
11	Left out in the cold: temperature-dependence of defense in an African ant-plant mutualism. <i>Ecology</i> , 2019 , 100, e02712	4.6	2
10	A soil-nesting invasive ant disrupts carbon dynamics in saplings of a foundational ant-plant. <i>Journal of Ecology</i> ,	6	2
9	Large herbivores suppress liana infestation in an African savanna. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2
8	Integrating Ecological Complexity into Our Understanding of Ant-Plant Mutualism: Ant-Acacia Interactions in African Savannas200-222		1
7	Using photography to estimate above-ground biomass of small trees. <i>Journal of Tropical Ecology</i> , 2020 , 36, 213-219	1.3	1
6	Experimental evidence that effects of megaherbivores on mesoherbivore space use are influenced by species traits. <i>Journal of Animal Ecology</i> , 2021 , 90, 2510-2522	4.7	1
5	Strong but opposing effects of associational resistance and susceptibility on defense phenotype in an African savanna plant. <i>Oikos</i> , 2019 , 128, 1772-1782	4	0
4	Ecological consequences of large herbivore exclusion in an African savanna: 12 years of data from the UHURU experiment.. <i>Ecology</i> , 2022 , e3649	4.6	0
3	Demographic consequences of mutualism disruption: Browsing and big-headed ant invasion drive acacia population declines.. <i>Ecology</i> , 2022 , e3655	4.6	0

- 2 Mussels drive polychlorinated biphenyl (PCB) biomagnification in a coastal food web. *Scientific Reports*, **2021**, 11, 9180 4.9 ○
- 1 Frenemy at the gate: Invasion by *Pheidole megacephala* facilitates a competitively subordinate plant ant in Kenya. *Ecology*, **2021**, 102, e03230 4.6 ○