Todd M Palmer

List of Publications by Year
in descending order

93 papers	9,577 citations	81434 41 h-index	53065 89 g-index
95 all docs	95 docs citations	95 times ranked	13901 citing authors

#	Article	IF	Citations
1	A soilâ€nesting invasive ant disrupts carbon dynamics in saplings of a foundational antâ€“plant. Journal of Ecology, 2022, 110, 359-373.	1.9	5
2	Ecological consequences of large herbivore exclusion in an <scp>A</scp>frican savanna: 12â€‰years of data from the <scp>UHURU</scp> experiment. Ecology, 2022, 103, e3649.	1.5	6
3	Demographic consequences of mutualism disruption: Browsing and bigâ€headed ant invasion drive acacia population declines. Ecology, 2022, 103, e3655.	1.5	6
4	Frenemy at the gate: Invasion by Pheidole megacephala facilitates a competitively subordinate plant ant in Kenya. Ecology, 2021, 102, e03230.	1.5	4
5	Density dependence and the spread of invasive big-headed ants (Pheidole megacephala) in an East African savanna. Oecologia, 2021, 195, 667-676.	0.9	7
6	Mutualism disruption by an invasive ant reduces carbon fixation for a foundational East African antâ€plant. Ecology Letters, 2021, 24, 1052-1062.	3.0	7
7	Mussels drive polychlorinated biphenyl (PCB) biomagnification in a coastal food web. Scientific Reports, 2021, 11, 9180.	1.6	9
8	Experimental evidence that effects of megaherbivores on mesoherbivore space use are influenced by species' traits. Journal of Animal Ecology, 2021, 90, 2510-2522.	1.3	7
9	Large herbivores transform plant-pollinator networks in an African savanna. Current Biology, 2021, 31, 2964-2971.e5.	1.8	10
10	Large herbivores suppress liana infestation in an African savanna. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	10
11	Using photography to estimate above-ground biomass of small trees. Journal of Tropical Ecology, 2020, 36, 213-219.	0.5	3
12	Strong but opposing effects of associational resistance and susceptibility on defense phenotype in an African savanna plant. Oikos, 2019, 128, 1772-1782.	1.2	9
13	Predator-induced collapse of niche structure and species coexistence. Nature, 2019, 570, 58-64.	13.7	109
14	Large mammals generate both top-down effects and extended trophic cascades on floral-visitor assemblages. Journal of Tropical Ecology, 2019, 35, 185-198.	0.5	4
15	Left out in the cold: temperatureâ€dependence of defense in an African antâ€“plant mutualism. Ecology, 2019, 100, e02712.	1.5	9
16	Aridity weakens population-level effects of multiple species interactions on <i>Hibiscus meyeri</i>. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 543-548.	3.3	28
17	Economy of scale: third partner strengthens a keystone antâ€plant mutualism. Ecology, 2018, 99, 335-346.	1.5	11
18	Change in dominance determines herbivore effects on plant biodiversity. Nature Ecology and Evolution, 2018, 2, 1925-1932.	3.4	140

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19	What explains tick proliferation following large-herbivore exclusion?. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180612.	1.2	0
20	Conservation lessons from largeâ€mammal manipulations in East African savannas: the KLEE, UHURU, and GLADE experiments. Annals of the New York Academy of Sciences, 2018, 1429, 31-49.	1.8	53
21	Good neighbors make good defenses: associational refuges reduce defense investment in African savanna plants. Ecology, 2018, 99, 1724-1736.	1.5	32
22	Promises and challenges in insectâ€"plant interactions. Entomologia Experimentalis Et Applicata, 2018, 166, 319-343.	0.7	66
23	Habitat-specific AMF symbioses enhance drought tolerance of a native Kenyan grass. Acta Oecologica, 2017, 78, 71-78.	0.5	19
24	Interacting effects of land use and climate on rodent-borne pathogens in central Kenya. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160116.	1.8	39
25	Climatic variation modulates the indirect effects of large herbivores on smallâ€mammal habitat use. Journal of Animal Ecology, 2017, 86, 739-748.	1.3	23
26	Impacts of worker density in colonyâ€level aggression, expansion, and survival of the acaciaâ€ant <i>Crematogaster mimosae</i>. Ecological Monographs, 2017, 87, 246-259.	2.4	4
27	Influence of neighboring plants on the dynamics of an antâ€"acacia protection mutualism. Ecology, 2017, 98, 3034-3043.	1.5	9
28	Interacting effects of wildlife loss and climate on ticks and tick-borne disease. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170475.	1.2	27
29	Integrating Ecological Complexity into Our Understanding of Ant-Plant Mutualism: Ant-Acacia Interactions in African Savannas. , 2017, , 200-222.		2
30	An invasive ant reduces diversity but does not disrupt a key ecosystem function in an A frican savanna. Ecosphere, 2016, 7, e01502.	1.0	4
31	Elephants in the understory: opposing direct and indirect effects of consumption and ecosystem engineering by megaherbivores. Ecology, 2016, 97, 3219-3230.	1.5	72
32	Large herbivores promote habitat specialization and beta diversity of African savanna trees. Ecology, 2016, 97, 2640-2657.	1.5	61
33	Effects of entomopathogenic fungus Metarhizium anisopliae on non-target ants associated with Odontotermes spp. (Isoptera: Termitidae) termite mounds in Kenya. International Journal of Tropical Insect Science, 2016, 36, 128-134.	0.4	5
34	Leveraging nature's backup plans to incorporate interspecific interactions and resilience into restoration. Restoration Ecology, 2016, 24, 434-440.	1.4	9
35	The complexity and variable nature of ant-Acaciamutualisms in the African savanna. , 2016, , .		0
36	Synergistic effects of fire and elephants on arboreal animals in an <scp>A</scp>frican savanna. Journal of Animal Ecology, 2015, 84, 1637-1645.	1.3	48

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37	Contextâ€dependent effects of largeâ€wildlife declines on smallâ€mammal communities in central Kenya. Ecological Applications, 2015, 25, 348-360.	1.8	47
38	Worldwide evidence of a unimodal relationship between productivity and plant species richness. Science, 2015, 349, 302-305.	6.0	315
39	Accelerated modern humanâ€"induced species losses: Entering the sixth mass extinction. Science Advances, 2015, 1, e1400253.	4.7	2,475
40	Recovery of African wild dogs suppresses prey but does not trigger a trophic cascade. Ecology, 2015, 96, 2705-2714.	1.5	47
41	Disruption of a protective antâ€"plant mutualism by an invasive ant increases elephant damage to savanna trees. Ecology, 2015, 96, 654-661.	1.5	39
42	Mutualism in a community context. , 2015, , 159-180.		20
43	Colonisation and competition dynamics can explain incomplete sterilisation parasitism in ant-plant symbioses. Ecology Letters, 2014, 17, 1290-1298.	3.0	7
44	Plant and smallâ€mammal responses to largeâ€herbivore exclusion in an African savanna: five years of the UHURU experiment. Ecology, 2014, 95, 787-787.	1.5	18
45	Large carnivores make savanna tree communities less thorny. Science, 2014, 346, 346-349.	6.0	176
46	Low functional redundancy among mammalian browsers in regulating an encroaching shrub () Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Sciences, 2014, 281, 20140390.	1.2	53
47	Seasonal patterns in decomposition and nutrient release from East African savanna grasses grown under contrasting nutrient conditions. Agriculture, Ecosystems and Environment, 2014, 188, 12-19.	2.5	15
48	Mechanisms of plantâ€"plant interactions: concealment from herbivores is more important than abiotic-stress mediation in an African savannah. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132647.	1.2	38
49	Polygyny in the nest-site limited acacia-ant Crematogaster mimosae. Insectes Sociaux, 2013, 60, 231-241.	0.7	7
50	A role for indirect facilitation in maintaining diversity in a guild of African acacia ants. Ecology, 2013, 94, 1531-1539.	1.5	15
51	Enough is enough: the effects of symbiotic ant abundance on herbivory, growth, and reproduction in an African acacia. Ecology, 2013, 94, 683-691.	1.5	40
52	Ecological erosion of an Afrotropical forest and potential consequences for tree recruitment and forest biomass. Biological Conservation, 2013, 163, 122-130.	1.9	75
53	Effects of mammalian herbivore declines on plant communities: observations and experiments in an <scp>A</scp>frican savanna. Journal of Ecology, 2013, 101, 1030-1041.	1.9	89
54	Climatic stress mediates the impacts of herbivory on plant population structure and components of individual fitness. Journal of Ecology, 2013, 101, 1074-1083.	1.9	25

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55	Carbohydrate as Fuel for Foraging, Resource Defense and Colony Growth â€“ a Longâ€‘term Experiment with the Plantâ€‘ant <i>Crematogaster nigriceps</i>. Biotropica, 2013, 45, 620-627.	0.8	14
56	Piecewise Disassembly of a Large-Herbivore Community across a Rainfall Gradient: The UHURU Experiment. PLoS ONE, 2013, 8, e55192.	1.1	80
57	Skin shedding and tissue regeneration in African spiny mice (Acomys). Nature, 2012, 489, 561-565.	13.7	448
58	The high cost of mutualism: effects of four species of East African ant symbionts on their myrmecophyte host tree. Ecology, 2011, 92, 1073-1082.	1.5	63
59	Reciprocal Rewards Stabilize Cooperation in the Mycorrhizal Symbiosis. Science, 2011, 333, 880-882.	6.0	1,373
60	Cryptic herbivores mediate the strength and form of ungulate impacts on a long-lived savanna tree. Ecology, 2011, 92, 1626-1636.	1.5	54
61	The high cost of mutualism: effects of four species of East African ant symbionts on their myrmecophyte host tree. Ecology, 2011, 92, 1073-1082.	1.5	13
62	Ecological Importance of Large Herbivores in the Ewaso Ecosystem. Smithsonian Contributions To Zoology, 2011, , 43-53.	1.0	19
63	Defensive Plant-Ants Stabilize Megaherbivore-Driven Landscape Change in an African Savanna. Current Biology, 2010, 20, 1768-1772.	1.8	106
64	Large herbivores facilitate savanna tree establishment via diverse and indirect pathways. Journal of Animal Ecology, 2010, 79, 372-382.	1.3	113
65	Mutualisms in a changing world: an evolutionary perspective. Ecology Letters, 2010, 13, 1459-1474.	3.0	442
66	Termites create spatial structure and govern ecosystem function by affecting N₂ fixation in an East African savanna. Ecology, 2010, 91, 1296-1307.	1.5	95
67	Termites, vertebrate herbivores, and the fruiting success of Acacia drepanolobium. Ecology, 2010, 91, 399-407.	1.5	63
68	Synergy of multiple partners, including freeloaders, increases host fitness in a multispecies mutualism. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17234-17239.	3.3	207
69	Spatial Pattern Enhances Ecosystem Functioning in an African Savanna. PLoS Biology, 2010, 8, e1000377.	2.6	198
70	A Comparison of two Sampling Methods for Surveying Mammalian Herbivore Impacts on Beetle Communities in the Canopy ofAcacia drepanolobiumin Kenya. African Entomology, 2010, 18, 87-98.	0.6	12
71	Breakdown of an Ant-Plant Mutualism Follows the Loss of Large Herbivores from an African Savanna. Science, 2008, 319, 192-195.	6.0	251
72	MUTUALISM AS RECIPROCAL EXPLOITATION: AFRICAN PLANT-ANTS DEFEND FOLIAR BUT NOT REPRODUCTIVE STRUCTURES. Ecology, 2007, 88, 3004-3011.	1.5	66

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73	Consequences of herbivory by native ungulates for the reproduction of a savanna tree. Journal of Ecology, 2007, 95, 129-138.	1.9	87
74	Effects of fire on bird diversity and abundance in an East African savanna. African Journal of Ecology, 2006, 44, 165-170.	0.4	21
75	Volatiles in the mandibular gland of Tetraponera penzigi: A plant ant of the whistling thorn acacia. Biochemical Systematics and Ecology, 2006, 34, 536-538.	0.6	3
76	Ecological barriers to early colony establishment in three coexisting acacia-ant species in Kenya. Insectes Sociaux, 2005, 52, 393-401.	0.7	13
77	Competition and compensation among cattle, zebras, and elephants in a semi-arid savanna in Laikipia, Kenya. Biological Conservation, 2005, 122, 351-359.	1.9	171
78	RELAXATION OF INDUCED INDIRECT DEFENSES OF ACACIAS FOLLOWING EXCLUSION OF MAMMALIAN HERBIVORES. Ecology, 2004, 85, 609-614.	1.5	56
79	Wars of attrition: colony size determines competitive outcomes in a guild of African acacia ants. Animal Behaviour, 2004, 68, 993-1004.	0.8	97
80	SPATIAL HABITAT HETEROGENEITY INFLUENCES COMPETITION AND COEXISTENCE IN AN AFRICAN ACACIA ANT GUILD. Ecology, 2003, 84, 2843-2855.	1.5	127
81	Competition and Coexistence: Exploring Mechanisms That Restrict and Maintain Diversity within Mutualist Guilds. American Naturalist, 2003, 162, S63-S79.	1.0	169
82	COMPETITIONâ€"COLONIZATION TRADE-OFFS IN A GUILD OF AFRICAN ACACIA-ANTS. Ecological Monographs, 2002, 72, 347-363.	2.4	90
83	A comparison of volatiles in mandibular glands from three Crematogaster ant symbionts of the whistling thorn acacia. Biochemical Systematics and Ecology, 2002, 30, 217-222.	0.6	26
84	Burning bridges: priority effects and the persistence of a competitively subordinate acacia-ant in Laikipia, Kenya. Oecologia, 2002, 133, 372-379.	0.9	64
85	Title is missing!. Landscape Ecology, 2002, 17, 647-656.	1.9	135
86	Effects of simulated shoot and leaf herbivory on vegetative growth and plant defense in Acacia drepanolobium. Oikos, 2001, 92, 515-521.	1.2	71
87	Short-term dynamics of an acacia ant community in Laikipia, Kenya. Oecologia, 2000, 123, 425-435.	0.9	99
88	Sterilization and canopy modification of a swollen thorn acacia tree by a plant-ant. Nature, 1999, 401, 578-581.	13.7	121
89	KLEE: A longâ€term multiâ€species herbivore exclusion experiment in Laikipia, Kenya. African Journal of Range and Forage Science, 1997, 14, 94-102.	0.6	135
90	Bottle or Big-Scale Studies: How do we do Ecology?. Ecology, 1996, 77, 681-685.	1.5	41

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91	The influence of spatial heterogeneity on the behavior and growth of two herbivorous stream insects. Oecologia, 1995, 104, 476-486.	0.9	27
92	OBSERVATIONS ON THE DIETARY CHOICE OF FREE-RANGING JUVENILE OSTRICHES. Ostrich, 1994, 65, 251-255.	0.4	14
93	Pollen Competition and Sporophyte Fitness in Brassica campestris: Does Intense Pollen Competition Result in Individuals with Better Pollen?. Oikos, 1994, 69, 80.	1.2	35