

Catherine L Parr

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

6,922
citations

57631

44
h-index

66788

78
g-index

118
all docs

118
docs citations

118
times ranked

7282
citing authors

#	ARTICLE	IF	CITATIONS
1	The future of hyperdiverse tropical ecosystems. <i>Nature</i> , 2018, 559, 517-526.	13.7	452
2	Beyond the forest edge: Ecology, diversity and conservation of the grassy biomes. <i>Biological Conservation</i> , 2010, 143, 2395-2404.	1.9	428
3	Tropical grassy biomes: misunderstood, neglected, and under threat. <i>Trends in Ecology and Evolution</i> , 2014, 29, 205-213.	4.2	423
4	Patch Mosaic Burning for Biodiversity Conservation: a Critique of the Pyrodiversity Paradigm. <i>Conservation Biology</i> , 2006, 20, 1610-1619.	2.4	350
5	Fire and biodiversity in the Anthropocene. <i>Science</i> , 2020, 370, .	6.0	240
6	Climatic drivers of hemispheric asymmetry in global patterns of ant species richness. <i>Ecology Letters</i> , 2009, 12, 324-333.	3.0	233
7	Response of African savanna ants to long-term fire regimes. <i>Journal of Applied Ecology</i> , 2004, 41, 630-642.	1.9	204
8	Comment on "The global tree restoration potential". <i>Science</i> , 2019, 366, .	6.0	185
9	Cross-boundary human impacts compromise the Serengeti-Mara ecosystem. <i>Science</i> , 2019, 363, 1424-1428.	6.0	160
10	Towards an understanding of the evolutionary role of fire in animals. <i>Evolutionary Ecology</i> , 2018, 32, 113-125.	0.5	147
11	<i>GlobalAnts</i> : a new database on the geography of ant traits (Hymenoptera: Formicidae). <i>Insect Conservation and Diversity</i> , 2017, 10, 5-20.	1.4	119
12	How does habitat complexity affect ant foraging success? A test using functional measures on three continents. <i>Oecologia</i> , 2010, 164, 1061-1073.	0.9	111
13	Contrasting species and functional beta diversity in montane ant assemblages. <i>Journal of Biogeography</i> , 2015, 42, 1776-1786.	1.4	107
14	The underestimated biodiversity of tropical grassy biomes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150319.	1.8	103
15	Animal movements in fire-prone landscapes. <i>Biological Reviews</i> , 2019, 94, 981-998.	4.7	100
16	Burning issues for conservation: A critique of faunal fire research in Southern Africa. <i>Austral Ecology</i> , 2003, 28, 384-395.	0.7	98
17	Termites mitigate the effects of drought in tropical rainforest. <i>Science</i> , 2019, 363, 174-177.	6.0	98
18	Ant assemblages have darker and larger members in cold environments. <i>Global Ecology and Biogeography</i> , 2016, 25, 1489-1499.	2.7	95

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19	Cascading biodiversity and functional consequences of a global change-induced biome switch. <i>Diversity and Distributions</i> , 2012, 18, 493-503.	1.9	93
20	Savanna burning for biodiversity: Fire management for faunal conservation in Australian tropical savannas. <i>Austral Ecology</i> , 2012, 37, 658-667.	0.7	93
21	Elevation diversity patterns through space and time: ant communities of the Maloti-Drakensberg Mountains of southern Africa. <i>Journal of Biogeography</i> , 2014, 41, 2256-2268.	1.4	93
22	Spatial variability and abiotic determinants of termite mounds throughout a savanna catchment. <i>Ecography</i> , 2014, 37, 852-862.	2.1	90
23	Ants are the major agents of resource removal from tropical rainforests. <i>Journal of Animal Ecology</i> , 2018, 87, 293-300.	1.3	88
24	Dominant ants can control assemblage species richness in a South African savanna. <i>Journal of Animal Ecology</i> , 2008, 77, 1191-1198.	1.3	87
25	Global diversity in light of climate change: the case of ants. <i>Diversity and Distributions</i> , 2011, 17, 652-662.	1.9	87
26	The pyrodiversity biodiversity hypothesis: a test with savanna termite assemblages. <i>Journal of Applied Ecology</i> , 2012, 49, 422-430.	1.9	87
27	Savanna fires increase rates and distances of seed dispersal by ants. <i>Oecologia</i> , 2007, 151, 33-41.	0.9	82
28	Coping with the cold: minimum temperatures and thermal tolerances dominate the ecology of mountain ants. <i>Ecological Entomology</i> , 2017, 42, 105-114.	1.1	75
29	Title is missing!. <i>Journal of Insect Conservation</i> , 2001, 5, 27-36.	0.8	74
30	Tropical grassy biomes: linking ecology, human use and conservation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20160329.	1.8	73
31	Termite Diversity along an Amazon-Andes Elevation Gradient, Peru. <i>Biotropica</i> , 2011, 43, 100-107.	0.8	72
32	The discovery of dominance trade-off is the exception, rather than the rule. <i>Journal of Animal Ecology</i> , 2012, 81, 233-241.	1.3	66
33	Burning for biodiversity: highly resilient ant communities respond only to strongly contrasting fire regimes in Australia's seasonal tropics. <i>Journal of Applied Ecology</i> , 2014, 51, 1406-1413.	1.9	65
34	Seasonal activity patterns of African savanna termites vary across a rainfall gradient. <i>Insectes Sociaux</i> , 2015, 62, 157-165.	0.7	64
35	Constraint and Competition in Assemblages: A Cross-Continental and Modeling Approach for Ants. <i>American Naturalist</i> , 2005, 165, 481-494.	1.0	63
36	Does Structural Complexity Determine the Morphology of Assemblages? An Experimental Test on Three Continents. <i>PLoS ONE</i> , 2013, 8, e64005.	1.1	60

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37	Climate mediates the effects of disturbance on ant assemblage structure. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20150418.	1.2	58
38	Comment on "The extent of forest in dryland biomes". <i>Science</i> , 2017, 358, .	6.0	57
39	Pyrodiversity interacts with rainfall to increase bird and mammal richness in African savannas. <i>Ecology Letters</i> , 2018, 21, 557-567.	3.0	55
40	Termites can decompose more than half of deadwood in tropical rainforest. <i>Current Biology</i> , 2019, 29, R118-R119.	1.8	55
41	Habitat disturbance selects against both small and large species across varying climates. <i>Ecography</i> , 2018, 41, 1184-1193.	2.1	51
42	An invasion revisited: the African big-headed ant (<i>Pheidole megacephala</i>) in northern Australia. <i>Biological Invasions</i> , 2008, 10, 1171-1181.	1.2	50
43	Savanna ant species richness is maintained along a bioclimatic gradient of increasing latitude and decreasing rainfall in northern Australia. <i>Journal of Biogeography</i> , 2015, 42, 2313-2322.	1.4	50
44	Fire resilience of ant assemblages in long-unburnt savanna of northern Australia. <i>Austral Ecology</i> , 2008, 33, 830-838.	0.7	48
45	Ecological engineering through fire-herbivory feedbacks drives the formation of savanna grazing lawns. <i>Journal of Applied Ecology</i> , 2018, 55, 225-235.	1.9	47
46	Biodiversity variability across elevations in the Carpathians: Parallel change with landscape openness and land use. <i>Holocene</i> , 2013, 23, 869-881.	0.9	45
47	Variable effects of termite mounds on African savanna grass communities across a rainfall gradient. <i>Journal of Vegetation Science</i> , 2014, 25, 1405-1416.	1.1	43
48	Does long-term fire exclusion in an Australian tropical savanna result in a biome shift? A test using the reintroduction of fire. <i>Austral Ecology</i> , 2012, 37, 693-711.	0.7	42
49	The impact of invertebrate decomposers on plants and soil. <i>New Phytologist</i> , 2021, 231, 2142-2149.	3.5	41
50	Dominance-diversity relationships in ant communities differ with invasion. <i>Global Change Biology</i> , 2018, 24, 4614-4625.	4.2	39
51	The response of ants to climate change. <i>Global Change Biology</i> , 2022, 28, 3188-3205.	4.2	39
52	Anthropogenic modifications to fire regimes in the wider Serengeti-Mara ecosystem. <i>Global Change Biology</i> , 2019, 25, 3406-3423.	4.2	38
53	Darker ants dominate the canopy: Testing macroecological hypotheses for patterns in colour along a microclimatic gradient. <i>Journal of Animal Ecology</i> , 2020, 89, 347-359.	1.3	38
54	Biome Awareness Disparity is BAD for tropical ecosystem conservation and restoration. <i>Journal of Applied Ecology</i> , 2022, 59, 1967-1975.	1.9	38

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55	First comparison of quantitative estimates of termite biomass and abundance reveals strong intercontinental differences. <i>Journal of Tropical Ecology</i> , 2014, 30, 143-152.	0.5	37
56	Termite mounds differ in their importance for herbivores across savanna types, seasons and spatial scales. <i>Oikos</i> , 2016, 125, 726-734.	1.2	37
57	A global database of ant species abundances. <i>Ecology</i> , 2017, 98, 883-884.	1.5	37
58	What do you mean, "megafire"? <i>Global Ecology and Biogeography</i> , 2022, 31, 1906-1922.	2.7	37
59	Post-glacial patterns in vegetation dynamics in Romania: homogenization or differentiation?. <i>Journal of Biogeography</i> , 2010, 37, 2197-2208.	1.4	36
60	Competition and the Role of Dominant Ants. , 2009, , 77-96.		35
61	Long-term land-cover/use change in a traditional farming landscape in Romania inferred from pollen data, historical maps and satellite images. <i>Regional Environmental Change</i> , 2017, 17, 2193-2207.	1.4	35
62	Ant Diversity and Function in Disturbed and Changing Habitats. , 2009, , 137-156.		35
63	Habitat type influences fire resilience of ant assemblages in the semi-arid tropics of Northern Australia. <i>Journal of Arid Environments</i> , 2007, 69, 80-95.	1.2	34
64	Cornerstones of biodiversity conservation? Comparing the management effectiveness of Kruger and Kakadu National Parks, two key savanna reserves. <i>Biodiversity and Conservation</i> , 2009, 18, 3643-3662.	1.2	32
65	Suppression of savanna ants alters invertebrate composition and influences key ecosystem processes. <i>Ecology</i> , 2016, 97, 1611-1617.	1.5	32
66	Contrasting fire-related resilience of ecologically dominant ants in tropical savannas of northern Australia. <i>Diversity and Distributions</i> , 2007, 13, 438-446.	1.9	31
67	The size-grain hypothesis: a phylogenetic and field test. <i>Ecological Entomology</i> , 2003, 28, 475-481.	1.1	30
68	Assessing the Relative Efficiency of Termite Sampling Methods along a Rainfall Gradient in African Savannas. <i>Biotropica</i> , 2013, 45, 474-479.	0.8	26
69	Termites and fire: Current understanding and future research directions for improved savanna conservation. <i>Austral Ecology</i> , 2010, 35, 482-486.	0.7	25
70	Woody encroachment slows decomposition and termite activity in an African savanna. <i>Global Change Biology</i> , 2018, 24, 2597-2606.	4.2	25
71	Suspended Dead Wood Decomposes Slowly in the Tropics, with Microbial Decay Greater than Termite Decay. <i>Ecosystems</i> , 2019, 22, 1176-1188.	1.6	25
72	Canopy and litter ant assemblages share similar climate-species density relationships. <i>Biology Letters</i> , 2010, 6, 769-772.	1.0	23

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73	Interactive Effects of Fire, Rainfall, and Litter Quality on Decomposition in Savannas: Frequent Fire Leads to Contrasting Effects. <i>Ecosystems</i> , 2013, 16, 866-880.	1.6	23
74	Carbon flux and forest dynamics: Increased deadwood decomposition in tropical rainforest tree-fall canopy gaps. <i>Global Change Biology</i> , 2021, 27, 1601-1613.	4.2	22
75	Continent-level drivers of African pyrodiversity. <i>Ecography</i> , 2018, 41, 889-899.	2.1	21
76	A preliminary investigation of temporal patterns in semiarid ant communities: Variation with habitat type. <i>Austral Ecology</i> , 2008, 33, 653-662.	0.7	19
77	Habitat Complexity and Invasive Species: The Impacts of Gamba Grass (<i>Andropogon gayanus</i>) on Invertebrates in an Australian Tropical Savanna. <i>Biotropica</i> , 2010, 42, 688-696.	0.8	19
78	Describing termite assemblage structure in a Peruvian lowland tropical rain forest: a comparison of two alternative methods. <i>Insectes Sociaux</i> , 2015, 62, 141-150.	0.7	17
79	Resistance of mound-building termites to anthropogenic land-use change. <i>Environmental Research Letters</i> , 2020, 15, 094038.	2.2	17
80	Thermoregulatory traits combine with range shifts to alter the future of montane ant assemblages. <i>Global Change Biology</i> , 2019, 25, 2162-2173.	4.2	16
81	Geographical variation in ant foraging activity and resource use is driven by climate and net primary productivity. <i>Journal of Biogeography</i> , 2021, 48, 1448-1459.	1.4	16
82	DNA barcoding reveals incorrect labelling of insects sold as food in the UK. <i>PeerJ</i> , 2020, 8, e8496.	0.9	15
83	Biogeography and diversity of ants in Purnululu (Bungle Bungle) National Park and Conservation Reserve, Western Australia. <i>Australian Journal of Zoology</i> , 2006, 54, 123.	0.6	14
84	Ant colony nest networks adapt to resource disruption. <i>Journal of Animal Ecology</i> , 2021, 90, 143-152.	1.3	14
85	Fine-scale temporal and spatial dynamics of epigeic ants in Fynbos: sampling implications. <i>African Entomology</i> , 2007, 15, 1-11.	0.6	13
86	Termites promote soil carbon and nitrogen depletion: Results from an in situ macrofauna exclusion experiment, Peru. <i>Soil Biology and Biochemistry</i> , 2014, 77, 109-111.	4.2	13
87	Seasonal variation in the relative dominance of herbivore guilds in an African savanna. <i>Ecology</i> , 2016, 97, 1618-1624.	1.5	12
88	Habitat attribute similarities reduce impacts of land-use conversion on seed removal. <i>Biotropica</i> , 2018, 50, 39-49.	0.8	10
89	Numerically dominant species drive patterns in resource use along a vertical gradient in tropical ant assemblages. <i>Biotropica</i> , 2020, 52, 101-112.	0.8	10
90	Mineral analysis reveals extreme manganese concentrations in wild harvested and commercially available edible termites. <i>Scientific Reports</i> , 2020, 10, 6146.	1.6	10

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91	Taxonomic and functional approaches reveal different responses of ant assemblages to land-use changes. <i>Basic and Applied Ecology</i> , 2021, 54, 39-49.	1.2	10
92	Woody vegetation damage by the African elephant during severe drought at Pongola Game Reserve, South Africa. <i>African Journal of Ecology</i> , 2020, 58, 658-673.	0.4	9
93	A global review of termite sampling methods. <i>Insectes Sociaux</i> , 2021, 68, 3-14.	0.7	9
94	Ecological strategies of (pl)ants: Towards a worldwide worker economic spectrum for ants. <i>Functional Ecology</i> , 2023, 37, 13-25.	1.7	9
95	Dissimilar effects of human and elephant disturbance on woodland structure and functional bird diversity in the mopane woodlands of Zambia. <i>Landscape Ecology</i> , 2019, 34, 357-371.	1.9	8
96	Agricultural expansion in African savannas: effects on diversity and composition of trees and mammals. <i>Biodiversity and Conservation</i> , 2021, 30, 3279-3297.	1.2	8
97	Termite mounds create heterogeneity in invertebrate communities across a savanna rainfall gradient. <i>Biodiversity and Conservation</i> , 2020, 29, 1427-1441.	1.2	7
98	Drought and fire determine juvenile and adult woody diversity and dominance in a semi-arid African savanna. <i>Biotropica</i> , 2022, 54, 1015-1029.	0.8	7
99	Density-body mass relationships: Inconsistent intercontinental patterns among termite feeding-groups. <i>Acta Oecologica</i> , 2015, 63, 16-21.	0.5	6
100	Droughts Decouple African Savanna Grazers from Their Preferred Forage with Consequences for Grassland Productivity. <i>Ecosystems</i> , 2020, 23, 689-701.	1.6	6
101	Fire ecology for the 21st century: Conserving biodiversity in the age of megafire. <i>Diversity and Distributions</i> , 2022, 28, 350-356.	1.9	6
102	Unpacking the impoverished nature of secondary forests. <i>Journal of Animal Ecology</i> , 2012, 81, 937-939.	1.3	5
103	The costs and benefits of decentralization and centralization of ant colonies. <i>Behavioral Ecology</i> , 2019, 30, 1700-1706.	1.0	5
104	Clarifying Terrestrial Recycling Pathways. <i>Trends in Ecology and Evolution</i> , 2021, 36, 9-11.	4.2	5
105	Termites have wider thermal limits to cope with environmental conditions in savannas. <i>Journal of Animal Ecology</i> , 2022, 91, 766-779.	1.3	5
106	RESPONSE - Pattern, process, and the size-grain hypothesis. <i>Ecological Entomology</i> , 2004, 29, 381-382.	1.1	4
107	Preliminary investigations into a potential ant invader in Kruger National Park, South Africa. <i>African Journal of Ecology</i> , 2010, 48, 736-743.	0.4	4
108	Drought and presence of ants can influence hemiptera in tropical leaf litter. <i>Biotropica</i> , 2020, 52, 221-229.	0.8	4

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109	The effect of fire on ant assemblages does not depend on habitat openness but does select for large, gracile predators. <i>Ecosphere</i> , 2021, 12, e03549.	1.0	4
110	Proximity to forest mediates trade-offs between yields and biodiversity of birds in oil palm smallholdings. <i>Biotropica</i> , 2021, 53, 1498-1509.	0.8	4
111	Grazing by large savanna herbivores indirectly alters ant diversity and promotes resource monopolisation. <i>PeerJ</i> , 2019, 7, e6226.	0.9	3
112	Effects of fire frequency on savanna butterfly diversity and composition: A preliminary study. <i>Koedoe</i> , 2020, 62, .	0.3	2
113	Mammalian herbivore movement into drought refugia has cascading effects on savanna insect communities. <i>Journal of Animal Ecology</i> , 2021, 90, 1753-1763.	1.3	2
114	Contributions of Smaller Fauna to Ecological Processes and Biodiversity. , 0, , 211-232.		0
115	Synthesis and Perspectives. , 2009, , 305-310.		0
116	Termite diversity is resilient to land-use change along a forest-to-cocoa intensification gradient in Ghana, West Africa. <i>Biotropica</i> , 0, , .	0.8	0