Catherine L Parr

List of Publications by Year
in descending order

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Version: 2024-02-01

116 papers	6,922 citations	57758 44 h-index	66911 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. Nature, 2018, 559, 517-526.	27.8	452
2	Beyond the forest edge: Ecology, diversity and conservation of the grassy biomes. Biological Conservation, 2010, 143, 2395-2404.	4.1	428
3	Tropical grassy biomes: misunderstood, neglected, and under threat. Trends in Ecology and Evolution, 2014, 29, 205-213.	8.7	423
4	Patch Mosaic Burning for Biodiversity Conservation: a Critique of the Pyrodiversity Paradigm. Conservation Biology, 2006, 20, 1610-1619.	4.7	350
5	Fire and biodiversity in the Anthropocene. Science, 2020, 370, .	12.6	240
6	Climatic drivers of hemispheric asymmetry in global patterns of ant species richness. Ecology Letters, 2009, 12, 324-333.	6.4	233
7	Response of African savanna ants to long-term fire regimes. Journal of Applied Ecology, 2004, 41, 630-642.	4.0	204
8	Comment on â€œThe global tree restoration potentialâ€• Science, 2019, 366, .	12.6	185
9	Cross-boundary human impacts compromise the Serengeti-Mara ecosystem. Science, 2019, 363, 1424-1428.	12.6	160
10	Towards an understanding of the evolutionary role of fire in animals. Evolutionary Ecology, 2018, 32, 113-125.	1.2	147
11	GlobalAnts: a new database on the geography of ant traits (Hymenoptera: Formicidae). Insect Conservation and Diversity, 2017, 10, 5-20.	3.0	119
12	How does habitat complexity affect ant foraging success? A test using functional measures on three continents. Oecologia, 2010, 164, 1061-1073.	2.0	111
13	Contrasting species and functional beta diversity in montane ant assemblages. Journal of Biogeography, 2015, 42, 1776-1786.	3.0	107
14	The underestimated biodiversity of tropical grassy biomes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150319.	4.0	103
15	Animal movements in fireâ€prone landscapes. Biological Reviews, 2019, 94, 981-998.	10.4	100
16	Burning issues for conservation: A critique of faunal fire research in Southern Africa. Austral Ecology, 2003, 28, 384-395.	1.5	98
17	Termites mitigate the effects of drought in tropical rainforest. Science, 2019, 363, 174-177.	12.6	98
18	Ant assemblages have darker and larger members in cold environments. Global Ecology and Biogeography, 2016, 25, 1489-1499.	5.8	95

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19	Cascading biodiversity and functional consequences of a global changeâ€“induced biome switch. Diversity and Distributions, 2012, 18, 493-503.	4.1	93
20	Savanna burning for biodiversity: Fire management for faunal conservation in Australian tropical savannas. Austral Ecology, 2012, 37, 658-667.	1.5	93
21	Elevationâ€“diversity patterns through space and time: ant communities of the Malotiâ€Drakensberg Mountains of southern Africa. Journal of Biogeography, 2014, 41, 2256-2268.	3.0	93
22	Spatial variability and abiotic determinants of termite mounds throughout a savanna catchment. Ecography, 2014, 37, 852-862.	4.5	90
23	Ants are the major agents of resource removal from tropical rainforests. Journal of Animal Ecology, 2018, 87, 293-300.	2.8	88
24	Dominant ants can control assemblage species richness in a South African savanna. Journal of Animal Ecology, 2008, 77, 1191-1198.	2.8	87
25	Global diversity in light of climate change: the case of ants. Diversity and Distributions, 2011, 17, 652-662.	4.1	87
26	The pyrodiversityâ€“biodiversity hypothesis: a test with savanna termite assemblages. Journal of Applied Ecology, 2012, 49, 422-430.	4.0	87
27	Savanna fires increase rates and distances of seed dispersal by ants. Oecologia, 2007, 151, 33-41.	2.0	82
28	Coping with the cold: minimum temperatures and thermal tolerances dominate the ecology of mountain ants. Ecological Entomology, 2017, 42, 105-114.	2.2	75
29	Title is missing!. Journal of Insect Conservation, 2001, 5, 27-36.	1.4	74
30	Tropical grassy biomes: linking ecology, human use and conservation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20160329.	4.0	73
31	Termite Diversity along an Amazon-Andes Elevation Gradient, Peru. Biotropica, 2011, 43, 100-107.	1.6	72
32	The discoveryâ€“dominance tradeâ€off is the exception, rather than the rule. Journal of Animal Ecology, 2012, 81, 233-241.	2.8	66
33	Burning for biodiversity: highly resilient ant communities respond only to strongly contrasting fire regimes in <scp>A</scp>ustralia's seasonal tropics. Journal of Applied Ecology, 2014, 51, 1406-1413.	4.0	65
34	Seasonal activity patterns of African savanna termites vary across a rainfall gradient. Insectes Sociaux, 2015, 62, 157-165.	1.2	64
35	Constraint and Competition in Assemblages: A Crossâ€Continental and Modeling Approach for Ants. American Naturalist, 2005, 165, 481-494.	2.1	63
36	Does Structural Complexity Determine the Morphology of Assemblages? An Experimental Test on Three Continents. PLoS ONE, 2013, 8, e64005.	2.5	60

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37	Climate mediates the effects of disturbance on ant assemblage structure. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150418.	2.6	58
38	Comment on â€œThe extent of forest in dryland biomesâ€. Science, 2017, 358, .	12.6	57
39	Pyrodiversity interacts with rainfall to increase bird and mammal richness in African savannas. Ecology Letters, 2018, 21, 557-567.	6.4	55
40	Termites can decompose more than half of deadwood in tropical rainforest. Current Biology, 2019, 29, R118-R119.	3.9	55
41	Habitat disturbance selects against both small and large species across varying climates. Ecography, 2018, 41, 1184-1193.	4.5	51
42	An invasion revisited: the African big-headed ant (Pheidole megacephala) in northern Australia. Biological Invasions, 2008, 10, 1171-1181.	2.4	50
43	Savanna ant species richness is maintained along a bioclimatic gradient of increasing latitude and decreasing rainfall in northern Australia. Journal of Biogeography, 2015, 42, 2313-2322.	3.0	50
44	Fire resilience of ant assemblages in longâ€unburnt savanna of northern Australia. Austral Ecology, 2008, 33, 830-838.	1.5	48
45	Ecological engineering through fireâ€herbivory feedbacks drives the formation of savanna grazing lawns. Journal of Applied Ecology, 2018, 55, 225-235.	4.0	47
46	Biodiversity variability across elevations in the Carpathians: Parallel change with landscape openness and land use. Holocene, 2013, 23, 869-881.	1.7	45
47	Variable effects of termite mounds on <scp>A</scp>frican savanna grass communities across a rainfall gradient. Journal of Vegetation Science, 2014, 25, 1405-1416.	2.2	43
48	Does longâ€term fire exclusion in an Australian tropical savanna result in a biome shift? A test using the reintroduction of fire. Austral Ecology, 2012, 37, 693-711.	1.5	42
49	The impact of invertebrate decomposers on plants and soil. New Phytologist, 2021, 231, 2142-2149.	7.3	41
50	Dominanceâ€“diversity relationships in ant communities differ with invasion. Global Change Biology, 2018, 24, 4614-4625.	9.5	39
51	The response of ants to climate change. Global Change Biology, 2022, 28, 3188-3205.	9.5	39
52	Anthropogenic modifications to fire regimes in the wider Serengetiâ€Mara ecosystem. Global Change Biology, 2019, 25, 3406-3423.	9.5	38
53	Darker ants dominate the canopy: Testing macroecological hypotheses for patterns in colour along a microclimatic gradient. Journal of Animal Ecology, 2020, 89, 347-359.	2.8	38
54	Biome Awareness Disparity is BAD for tropical ecosystem conservation and restoration. Journal of Applied Ecology, 2022, 59, 1967-1975.	4.0	38

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55	First comparison of quantitative estimates of termite biomass and abundance reveals strong intercontinental differences. Journal of Tropical Ecology, 2014, 30, 143-152.	1.1	37
56	Termite mounds differ in their importance for herbivores across savanna types, seasons and spatial scales. Oikos, 2016, 125, 726-734.	2.7	37
57	A global database of ant species abundances. Ecology, 2017, 98, 883-884.	3.2	37
58	What do you mean, â€˜megafireâ€™?. Global Ecology and Biogeography, 2022, 31, 1906-1922.	5.8	37
59	Postâ€glacial patterns in vegetation dynamics in Romania: homogenization or differentiation?. Journal of Biogeography, 2010, 37, 2197-2208.	3.0	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. Regional Environmental Change, 2017, 17, 2193-2207.	2.9	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. Journal of Arid Environments, 2007, 69, 80-95.	2.4	34
64	Cornerstones of biodiversity conservation? Comparing the management effectiveness of Kruger and Kakadu National Parks, two key savanna reserves. Biodiversity and Conservation, 2009, 18, 3643-3662.	2.6	32
65	Suppression of savanna ants alters invertebrate composition and influences key ecosystem processes. Ecology, 2016, 97, 1611-1617.	3.2	32
66	Contrasting fireâ€related resilience of ecologically dominant ants in tropical savannas of northern Australia. Diversity and Distributions, 2007, 13, 438-446.	4.1	31
67	The size-grain hypothesis: a phylogenetic and field test. Ecological Entomology, 2003, 28, 475-481.	2.2	30
68	Assessing the Relative Efficiency of Termite Sampling Methods along a Rainfall Gradient in African Savannas. Biotropica, 2013, 45, 474-479.	1.6	26
69	Termites and fire: Current understanding and future research directions for improved savanna conservation. Austral Ecology, 2010, 35, 482-486.	1.5	25
70	Woody encroachment slows decomposition and termite activity in an African savanna. Global Change Biology, 2018, 24, 2597-2606.	9.5	25
71	Suspended Dead Wood Decomposes Slowly in the Tropics, with Microbial Decay Greater than Termite Decay. Ecosystems, 2019, 22, 1176-1188.	3.4	25
72	Canopy and litter ant assemblages share similar climateâ€“species density relationships. Biology Letters, 2010, 6, 769-772.	2.3	23

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73	Interactive Effects of Fire, Rainfall, and Litter Quality on Decomposition in Savannas: Frequent Fire Leads to Contrasting Effects. Ecosystems, 2013, 16, 866-880.	3.4	23
74	Carbon flux and forest dynamics: Increased deadwood decomposition in tropical rainforest treeâ€fall canopy gaps. Global Change Biology, 2021, 27, 1601-1613.	9.5	22
75	Continentâ€level drivers of African pyrodiversity. Ecography, 2018, 41, 889-899.	4.5	21
76	A preliminary investigation of temporal patterns in semiarid ant communities: Variation with habitat type. Austral Ecology, 2008, 33, 653-662.	1.5	19
77	Habitat Complexity and Invasive Species: The Impacts of Gamba Grass (Andropogon gayanus) on Invertebrates in an Australian Tropical Savanna. Biotropica, 2010, 42, 688-696.	1.6	19
78	Describing termite assemblage structure in a Peruvian lowland tropical rain forest: a comparison of two alternative methods. Insectes Sociaux, 2015, 62, 141-150.	1.2	17
79	Resistance of mound-building termites to anthropogenic land-use change. Environmental Research Letters, 2020, 15, 094038.	5.2	17
80	Thermoregulatory traits combine with range shifts to alter the future of montane ant assemblages. Global Change Biology, 2019, 25, 2162-2173.	9.5	16
81	Geographical variation in ant foraging activity and resource use is driven by climate and net primary productivity. Journal of Biogeography, 2021, 48, 1448-1459.	3.0	16
82	DNA barcoding reveals incorrect labelling of insects sold as food in the UK. PeerJ, 2020, 8, e8496.	2.0	15
83	Biogeography and diversity of ants in Purnululu (Bungle Bungle) National Park and Conservation Reserve, Western Australia. Australian Journal of Zoology, 2006, 54, 123.	1.0	14
84	Ant colony nest networks adapt to resource disruption. Journal of Animal Ecology, 2021, 90, 143-152.	2.8	14
85	Fine-scale temporal and spatial dynamics of epigaeic ants in Fynbos: sampling implications. African Entomology, 2007, 15, 1-11.	0.6	13
86	Termites promote soil carbon and nitrogen depletion: Results from an in situ macrofauna exclusion experiment, Peru. Soil Biology and Biochemistry, 2014, 77, 109-111.	8.8	13
87	Seasonal variation in the relative dominance of herbivore guilds in an African savanna. Ecology, 2016, 97, 1618-1624.	3.2	12
88	Habitat attribute similarities reduce impacts of landâ€use conversion on seed removal. Biotropica, 2018, 50, 39-49.	1.6	10
89	Numerically dominant species drive patterns in resource use along a vertical gradient in tropical ant assemblages. Biotropica, 2020, 52, 101-112.	1.6	10
90	Mineral analysis reveals extreme manganese concentrations in wild harvested and commercially available edible termites. Scientific Reports, 2020, 10, 6146.	3.3	10

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91	Taxonomic and functional approaches reveal different responses of ant assemblages to land-use changes. Basic and Applied Ecology, 2021, 54, 39-49.	2.7	10
92	Woody vegetation damage by the African elephant during severe drought at Pongola Game Reserve, South Africa. African Journal of Ecology, 2020, 58, 658-673.	0.9	9
93	A global review of termite sampling methods. Insectes Sociaux, 2021, 68, 3-14.	1.2	9
94	Ecological strategies of (pl)ants: Towards a worldâ€wide worker economic spectrum for ants. Functional Ecology, 2023, 37, 13-25.	3.6	9
95	Dissimilar effects of human and elephant disturbance on woodland structure and functional bird diversity in the mopane woodlands of Zambia. Landscape Ecology, 2019, 34, 357-371.	4.2	8
96	Agricultural expansion in African savannas: effects on diversity and composition of trees and mammals. Biodiversity and Conservation, 2021, 30, 3279-3297.	2.6	8
97	Termite mounds create heterogeneity in invertebrate communities across a savanna rainfall gradient. Biodiversity and Conservation, 2020, 29, 1427-1441.	2.6	7
98	Drought and fire determine juvenile and adult woody diversity and dominance in a semiâ€arid African savanna. Biotropica, 2022, 54, 1015-1029.	1.6	7
99	Density-body mass relationships: Inconsistent intercontinental patterns among termite feeding-groups. Acta Oecologica, 2015, 63, 16-21.	1.1	6
100	Droughts Decouple African Savanna Grazers from Their Preferred Forage with Consequences for Grassland Productivity. Ecosystems, 2020, 23, 689-701.	3.4	6
101	Fire ecology for the 21st century: Conserving biodiversity in the age of megafire. Diversity and Distributions, 2022, 28, 350-356.	4.1	6
102	Unpacking the impoverished nature of secondary forests. Journal of Animal Ecology, 2012, 81, 937-939.	2.8	5
103	The costs and benefits of decentralization and centralization of ant colonies. Behavioral Ecology, 2019, 30, 1700-1706.	2.2	5
104	Clarifying Terrestrial Recycling Pathways. Trends in Ecology and Evolution, 2021, 36, 9-11.	8.7	5
105	Termites have wider thermal limits to cope with environmental conditions in savannas. Journal of Animal Ecology, 2022, 91, 766-779.	2.8	5
106	RESPONSE - Pattern, process, and the size-grain hypothesis. Ecological Entomology, 2004, 29, 381-382.	2.2	4
107	Preliminary investigations into a potential ant invader in Kruger National Park, South Africa. African Journal of Ecology, 2010, 48, 736-743.	0.9	4
108	Drought and presence of ants can influence hemiptera in tropicalÂleaf litter. Biotropica, 2020, 52, 221-229.	1.6	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. Ecosphere, 2021, 12, e03549.	2.2	4
110	Proximity to forest mediates tradeâ€offs between yields and biodiversity of birds in oil palm smallholdings. Biotropica, 2021, 53, 1498-1509.	1.6	4
111	Grazing by large savanna herbivores indirectly alters ant diversity and promotes resource monopolisation. PeerJ, 2019, 7, e6226.	2.0	3
112	Effects of fire frequency on savanna butterfly diversity and composition: A preliminary study. Koedoe, 2020, 62, .	0.9	2
113	Mammalian herbivore movement into drought refugia has cascading effects on savanna insect communities. Journal of Animal Ecology, 2021, 90, 1753-1763.	2.8	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 landâ€use change along a forestâ€cocoa intensification gradient in Ghana, West Africa. Biotropica, 0, , .	1.6	0