

Jos Barlow

List of Publications by Year in descending order

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Version: 2024-02-01

139
papers

14,243
citations

28274

55
h-index

22166

113
g-index

141
all docs

141
docs citations

141
times ranked

15809
citing authors

#	ARTICLE	IF	CITATIONS
1	Primary forests are irreplaceable for sustaining tropical biodiversity. <i>Nature</i> , 2011, 478, 378-381.	27.8	1,600
2	TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
3	Prospects for tropical forest biodiversity in a human-modified world. <i>Ecology Letters</i> , 2009, 12, 561-582.	6.4	735
4	Anthropogenic disturbance in tropical forests can double biodiversity loss from deforestation. <i>Nature</i> , 2016, 535, 144-147.	27.8	718
5	21st Century drought-related fires counteract the decline of Amazon deforestation carbon emissions. <i>Nature Communications</i> , 2018, 9, 536.	12.8	485
6	The cost-effectiveness of biodiversity surveys in tropical forests. <i>Ecology Letters</i> , 2008, 11, 139-150.	6.4	466
7	The future of hyperdiverse tropical ecosystems. <i>Nature</i> , 2018, 559, 517-526.	27.8	452
8	A large-scale field assessment of carbon stocks in human-modified tropical forests. <i>Global Change Biology</i> , 2014, 20, 3713-3726.	9.5	300
9	Understanding the biodiversity consequences of habitat change: the value of secondary and plantation forests for neotropical dung beetles. <i>Journal of Applied Ecology</i> , 2008, 45, 883-893.	4.0	265
10	Compositional response of Amazon forests to climate change. <i>Global Change Biology</i> , 2019, 25, 39-56.	9.5	265
11	Fire-mediated dieback and compositional cascade in an Amazonian forest. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008, 363, 1787-1794.	4.0	255
12	How pervasive is biotic homogenization in human-modified tropical forest landscapes?. <i>Ecology Letters</i> , 2015, 18, 1108-1118.	6.4	233
13	Biodiversity conservation in human-modified Amazonian forest landscapes. <i>Biological Conservation</i> , 2010, 143, 2314-2327.	4.1	218
14	The value of primary, secondary and plantation forests for Amazonian birds. <i>Biological Conservation</i> , 2007, 136, 212-231.	4.1	214
15	Clarifying Amazonia's burning crisis. <i>Global Change Biology</i> , 2020, 26, 319-321.	9.5	210
16	Detecting anthropogenic disturbance in tropical forests. <i>Trends in Ecology and Evolution</i> , 2006, 21, 227-229.	8.7	203
17	Ten-Year Landsat Classification of Deforestation and Forest Degradation in the Brazilian Amazon. <i>Remote Sensing</i> , 2013, 5, 5493-5513.	4.0	198
18	Long-term thermal sensitivity of Earth's tropical forests. <i>Science</i> , 2020, 368, 869-874.	12.6	198

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19	Large tree mortality and the decline of forest biomass following Amazonian wildfires. <i>Ecology Letters</i> , 2002, 6, 6-8.	6.4	197
20	Ecological responses to El Niño-induced surface fires in central Brazilian Amazonia: management implications for flammable tropical forests. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2004, 359, 367-380.	4.0	190
21	Toward an integrated monitoring framework to assess the effects of tropical forest degradation and recovery on carbon stocks and biodiversity. <i>Global Change Biology</i> , 2016, 22, 92-109.	9.5	165
22	Extinction filters mediate the global effects of habitat fragmentation on animals. <i>Science</i> , 2019, 366, 1236-1239.	12.6	164
23	Effects of ground fires on understorey bird assemblages in Amazonian forests. <i>Biological Conservation</i> , 2002, 105, 157-169.	4.1	155
24	The value of primary, secondary and plantation forests for fruit-feeding butterflies in the Brazilian Amazon. <i>Journal of Applied Ecology</i> , 2007, 44, 1001-1012.	4.0	155
25	Predicting the Uncertain Future of Tropical Forest Species in a Data Vacuum. <i>Biotropica</i> , 2007, 39, 25-30.	1.6	147
26	A framework for integrating biodiversity concerns into national REDD+ programmes. <i>Biological Conservation</i> , 2012, 154, 61-71.	4.1	138
27	A social and ecological assessment of tropical land uses at multiple scales: the Sustainable Amazon Network. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120166.	4.0	133
28	Management by proxy? The use of indices in applied ecology. <i>Journal of Applied Ecology</i> , 2015, 52, 1-6.	4.0	133
29	The contribution of insects to global forest deadwood decomposition. <i>Nature</i> , 2021, 597, 77-81.	27.8	123
30	AVIFAUNAL RESPONSES TO SINGLE AND RECURRENT WILDFIRES IN AMAZONIAN FORESTS. , 2004, 14, 1358-1373.		121
31	Biodiversity consequences of land-use change and forest disturbance in the Amazon: A multi-scale assessment using ant communities. <i>Biological Conservation</i> , 2016, 197, 98-107.	4.1	119
32	Making rewilding fit for policy. <i>Journal of Applied Ecology</i> , 2018, 55, 1114-1125.	4.0	113
33	Using avian functional traits to assess the impact of land-cover change on ecosystem processes linked to resilience in tropical forests. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161289.	2.6	109
34	Second rate or a second chance? Assessing biomass and biodiversity recovery in regenerating Amazonian forests. <i>Global Change Biology</i> , 2018, 24, 5680-5694.	9.5	107
35	A multi-region assessment of tropical forest biodiversity in a human-modified world. <i>Biological Conservation</i> , 2010, 143, 2293-2300.	4.1	100
36	Do space-for-time assessments underestimate the impacts of logging on tropical biodiversity? An Amazonian case study using dung beetles. <i>Journal of Applied Ecology</i> , 2016, 53, 1098-1105.	4.0	99

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37	Carbon-focused conservation may fail to protect the most biodiverse tropical forests. <i>Nature Climate Change</i> , 2018, 8, 744-749.	18.8	98
38	The critical importance of considering fire in REDD+ programs. <i>Biological Conservation</i> , 2012, 154, 1-8.	4.1	95
39	Anthropogenic influence on Amazonian forests in pre-history: An ecological perspective. <i>Journal of Biogeography</i> , 2015, 42, 2277-2288.	3.0	95
40	Land use intensification in the humid tropics increased both alpha and beta diversity of soil bacteria. <i>Ecology</i> , 2016, 97, 2760-2771.	3.2	92
41	Allocation of hunting effort by Amazonian smallholders: Implications for conserving wildlife in mixed-use landscapes. <i>Biological Conservation</i> , 2009, 142, 1777-1786.	4.1	87
42	Integrated terrestrial-freshwater planning doubles conservation of tropical aquatic species. <i>Science</i> , 2020, 370, 117-121.	12.6	87
43	Vertebrate responses to surface wildfires in a central Amazonian forest. <i>Oryx</i> , 2003, 37, .	1.0	85
44	Effects of Single and Recurrent Wildfires on Fruit Production and Large Vertebrate Abundance in a Central Amazonian Forest. <i>Biodiversity and Conservation</i> , 2006, 15, 985-1012.	2.6	84
45	Avian biodiversity in multiple-use landscapes of the Brazilian Amazon. <i>Biological Conservation</i> , 2013, 167, 339-348.	4.1	84
46	Morphological correlates of fire-induced tree mortality in a central Amazonian forest. <i>Journal of Tropical Ecology</i> , 2003, 19, 291-299.	1.1	81
47	Drought-induced Amazonian wildfires instigate a decadal-scale disruption of forest carbon dynamics. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20180043.	4.0	79
48	Improving the design and management of forest strips in human-dominated tropical landscapes: a field test on Amazonian dung beetles. <i>Journal of Applied Ecology</i> , 2010, 47, 779-788.	4.0	75
49	Large-vertebrate assemblages of primary and secondary forests in the Brazilian Amazon. <i>Journal of Tropical Ecology</i> , 2007, 23, 653-662.	1.1	74
50	Time to integrate global climate change and biodiversity science-policy agendas. <i>Journal of Applied Ecology</i> , 2021, 58, 2384-2393.	4.0	72
51	Hunting for Sustainability in Tropical Secondary Forests. <i>Conservation Biology</i> , 2009, 23, 1270-1280.	4.7	71
52	Climatic and local stressor interactions threaten tropical forests and coral reefs. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190116.	4.0	69
53	Quantifying immediate carbon emissions from El Niño-mediated wildfires in humid tropical forests. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170312.	4.0	64
54	Shifting Cultivation and Fire Policy: Insights from the Brazilian Amazon. <i>Human Ecology</i> , 2013, 41, 603-614.	1.4	63

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55	Disentangling the contribution of multiple land covers to fire-mediated carbon emissions in Amazonia during the 2010 drought. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1739-1753.	4.9	63
56	Explaining the persistence of low income and environmentally degrading land uses in the Brazilian Amazon. <i>Ecology and Society</i> , 2017, 22, .	2.3	62
57	Is environmental legislation conserving tropical stream faunas? A large-scale assessment of local, riparian and catchment-scale influences on Amazonian fish. <i>Journal of Applied Ecology</i> , 2018, 55, 1312-1326.	4.0	62
58	Biodiversity and environmental context predict dung beetle-mediated seed dispersal in a tropical forest field experiment. <i>Ecology</i> , 2015, 96, 1607-1619.	3.2	60
59	Do fragment size and edge effects predict carbon stocks in trees and lianas in tropical forests?. <i>Functional Ecology</i> , 2017, 31, 542-552.	3.6	57
60	Engaging multiple stakeholders to reconcile climate, conservation and development objectives in tropical landscapes. <i>Biological Conservation</i> , 2019, 238, 108229.	4.1	57
61	Challenges of Governing Second-Growth Forests: A Case Study from the Brazilian Amazonian State of Pará. <i>Forests</i> , 2014, 5, 1737-1752.	2.1	53
62	Biased-corrected richness estimates for the Amazonian tree flora. <i>Scientific Reports</i> , 2020, 10, 10130.	3.3	53
63	Biodiversity and land-use change: understanding the complex responses of an endemic rich bird assemblage. <i>Diversity and Distributions</i> , 2013, 19, 411-422.	4.1	51
64	Assessing the growth and climate sensitivity of secondary forests in highly deforested Amazonian landscapes. <i>Ecology</i> , 2020, 101, e02954.	3.2	51
65	Tracking the impacts of El Niño drought and fire in human-modified Amazonian forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	51
66	Rainforest metropolis casts 1,000-km defaunation shadow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8655-8659.	7.1	50
67	Identifying thresholds of logging intensity on dung beetle communities to improve the sustainable management of Amazonian tropical forests. <i>Biological Conservation</i> , 2017, 216, 115-122.	4.1	46
68	Spatial and temporal shifts in functional and taxonomic diversity of dung beetles in a human-modified tropical forest landscape. <i>Ecological Indicators</i> , 2018, 95, 518-526.	6.3	45
69	Diversity and composition of fruit-feeding butterflies in tropical Eucalyptus plantations. <i>Biodiversity and Conservation</i> , 2008, 17, 1089-1104.	2.6	44
70	Assessing the Importance of Intraspecific Variability in Dung Beetle Functional Traits. <i>PLoS ONE</i> , 2016, 11, e0145598.	2.5	43
71	The value of forest strips for understory birds in an Amazonian plantation landscape. <i>Biological Conservation</i> , 2008, 141, 2262-2278.	4.1	41
72	Thinner bark increases sensitivity of wetter Amazonian tropical forests to fire. <i>Ecology Letters</i> , 2020, 23, 99-106.	6.4	40

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73	Secondary forests offset less than 10% of deforestation-mediated carbon emissions in the Brazilian Amazon. <i>Global Change Biology</i> , 2020, 26, 7006-7020.	9.5	40
74	The value of trophic interactions for ecosystem function: dung beetle communities influence seed burial and seedling recruitment in tropical forests. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161634.	2.6	39
75	Biodiversity scientists must fight the creeping rise of extinction denial. <i>Nature Ecology and Evolution</i> , 2020, 4, 1440-1443.	7.8	39
76	Pantropical modelling of canopy functional traits using Sentinel-2 remote sensing data. <i>Remote Sensing of Environment</i> , 2021, 252, 112122.	11.0	38
77	Wildfires in Bamboo-Dominated Amazonian Forest: Impacts on Above-Ground Biomass and Biodiversity. <i>PLoS ONE</i> , 2012, 7, e33373.	2.5	36
78	Research effort allocation and the conservation of restricted-range island bird species. <i>Biological Conservation</i> , 2011, 144, 627-632.	4.1	35
79	Factors Affecting the Abundance of Leaf-Litter Arthropods in Unburned and Thrice-Burned Seasonally-Dry Amazonian Forests. <i>PLoS ONE</i> , 2010, 5, e12877.	2.5	34
80	Evaluating the impacts and conservation value of exotic and native tree afforestation in Cerrado grasslands using dung beetles. <i>Insect Conservation and Diversity</i> , 2012, 5, 175-185.	3.0	34
81	Dung beetle community dynamics in undisturbed tropical forests: implications for ecological evaluations of land-use change. <i>Insect Conservation and Diversity</i> , 2017, 10, 94-106.	3.0	34
82	On the extinction of the single-authored paper: The causes and consequences of increasingly collaborative applied ecological research. <i>Journal of Applied Ecology</i> , 2018, 55, 1-4.	4.0	34
83	Amazonian forest degradation must be incorporated into the COP26 agenda. <i>Nature Geoscience</i> , 2021, 14, 634-635.	12.9	32
84	Estimating the multi-decadal carbon deficit of burned Amazonian forests. <i>Environmental Research Letters</i> , 2020, 15, 114023.	5.2	32
85	A Multi-taxa Assessment of Biodiversity Change After Single and Recurrent Wildfires in a Brazilian Amazon Forest. <i>Biotropica</i> , 2016, 48, 170-180.	1.6	31
86	Seeing the woods through the saplings: Using wood density to assess the recovery of human-modified Amazonian forests. <i>Journal of Ecology</i> , 2018, 106, 2190-2203.	4.0	31
87	Acoustic indices perform better when applied at ecologically meaningful time and frequency scales. <i>Methods in Ecology and Evolution</i> , 2021, 12, 421-431.	5.2	31
88	Solving environmental problems in the Anthropocene: the need to bring novel theoretical advances into the applied ecology fold. <i>Journal of Applied Ecology</i> , 2017, 54, 1-6.	4.0	30
89	Ensuring applied ecology has impact. <i>Journal of Applied Ecology</i> , 2012, 49, 1-5.	4.0	29
90	Two Hundred Years of Local Avian Extinctions in Eastern Amazonia. <i>Conservation Biology</i> , 2014, 28, 1271-1281.	4.7	29

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91	Idiosyncratic responses of Amazonian birds to primary forest disturbance. <i>Oecologia</i> , 2016, 180, 903-916.	2.0	29
92	Tree growth and stem carbon accumulation in human-modified Amazonian forests following drought and fire. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170308.	4.0	29
93	Long-term Changes in Bird Communities after Wildfires in the Central Brazilian Amazon. <i>Biotropica</i> , 2013, 45, 480-488.	1.6	28
94	Tough fishing and severe seasonal food insecurity in Amazonian flooded forests. <i>People and Nature</i> , 2020, 2, 468-482.	3.7	28
95	Tropical forest fires and biodiversity: dung beetle community and biomass responses in a northern Brazilian Amazon forest. <i>Journal of Insect Conservation</i> , 2014, 18, 1097-1104.	1.4	26
96	Selective logging effects on "brown world" faecal-detritus pathway in tropical forests: A case study from Amazonia using dung beetles. <i>Forest Ecology and Management</i> , 2018, 410, 136-143.	3.2	26
97	The extent and distribution of joint conservation-development funding in the tropics. <i>One Earth</i> , 2020, 3, 753-762.	6.8	26
98	Does selective logging stress tropical forest invertebrates? Using fat stores to examine sublethal responses in dung beetles. <i>Ecology and Evolution</i> , 2016, 6, 8526-8533.	1.9	25
99	Linking land-use and land-cover transitions to their ecological impact in the Amazon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	24
100	Morphological and phylogenetic factors structure the distribution of damselfly and dragonfly species (Odonata) along an environmental gradient in Amazonian streams. <i>Ecological Indicators</i> , 2021, 122, 107257.	6.3	23
101	Drought-driven wildfire impacts on structure and dynamics in a wet Central Amazonian forest. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210094.	2.6	23
102	hardRain: An R package for quick, automated rainfall detection in ecoacoustic datasets using a threshold-based approach. <i>Ecological Indicators</i> , 2020, 109, 105793.	6.3	22
103	Old-growth forest loss and secondary forest recovery across Amazonian countries. <i>Environmental Research Letters</i> , 2021, 16, 085009.	5.2	22
104	El Niño impacts on human-modified tropical forests: Consequences for dung beetle diversity and associated ecological processes. <i>Biotropica</i> , 2020, 52, 252-262.	1.6	21
105	It is not just about time: Agricultural practices and surrounding forest cover affect secondary forest recovery in agricultural landscapes. <i>Biotropica</i> , 2021, 53, 496-508.	1.6	21
106	A large-scale assessment of plant dispersal mode and seed traits across human-modified Amazonian forests. <i>Journal of Ecology</i> , 2020, 108, 1373-1385.	4.0	20
107	Fire risk perpetuates poverty and fire use among Amazonian smallholders. <i>Global Environmental Change</i> , 2020, 63, 102096.	7.8	19
108	Policy instruments to control Amazon fires: A simulation approach. <i>Ecological Economics</i> , 2017, 138, 199-222.	5.7	18

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109	Belowground changes to community structure alter methane-cycling dynamics in Amazonia. <i>Environment International</i> , 2020, 145, 106131.	10.0	18
110	Functional biogeography of Neotropical moist forests: Trait-climate relationships and assembly patterns of tree communities. <i>Global Ecology and Biogeography</i> , 2021, 30, 1430-1446.	5.8	18
111	The relative influence of different landscape attributes on dung beetle communities in the Brazilian Atlantic forest. <i>Ecological Indicators</i> , 2020, 117, 106534.	6.3	18
112	Effects of surface fires on understory insectivorous birds and terrestrial arthropods in central Brazilian Amazonia. <i>Animal Conservation</i> , 2003, 6, 299-306.	2.9	17
113	Improving the spatial-temporal analysis of Amazonian fires. <i>Global Change Biology</i> , 2021, 27, 469-471.	9.5	17
114	Reassessing the role of cattle and pasture in Brazil's deforestation: A response to "Fire, deforestation, and livestock: When the smoke clears". <i>Land Use Policy</i> , 2021, 108, 105195.	5.6	17
115	Water table depth modulates productivity and biomass across Amazonian forests. <i>Global Ecology and Biogeography</i> , 2022, 31, 1571-1588.	5.8	17
116	FIRES IN BRAZILIAN AMAZON: WHY DOES POLICY HAVE A LIMITED IMPACT?. <i>Ambiente & Sociedade</i> , 2017, 20, 19-38.	0.5	16
117	Re-integrating ecology into integrated landscape approaches. <i>Landscape Ecology</i> , 2021, 36, 2395-2407.	4.2	16
118	Does the Establishment of Sustainable Use Reserves Affect Fire Management in the Humid Tropics?. <i>PLoS ONE</i> , 2016, 11, e0149292.	2.5	14
119	Developing Cost-Effective Field Assessments of Carbon Stocks in Human-Modified Tropical Forests. <i>PLoS ONE</i> , 2015, 10, e0133139.	2.5	13
120	Urban market amplifies strong species selectivity in Amazonian artisanal fisheries. <i>Neotropical Ichthyology</i> , 2021, 19, .	1.0	11
121	Spatio-temporal variation in dry season determines the Amazonian fire calendar. <i>Environmental Research Letters</i> , 2021, 16, 125009.	5.2	11
122	Strong floristic distinctiveness across Neotropical successional forests. <i>Science Advances</i> , 2022, 8, .	10.3	10
123	Fire Scars on Amazonian Trees: Exploring the Cryptic Fire History of the Ilha de Maracá. <i>Biotropica</i> , 2010, 42, 405-409.	1.6	9
124	Who knows, who cares? Untangling ecological knowledge and nature connection among Amazonian colonist farmers. <i>People and Nature</i> , 2021, 3, 431-445.	3.7	9
125	Functional redundancy of Amazonian dung beetles confers community-level resistance to primary forest disturbance. <i>Biotropica</i> , 2021, 53, 1510-1521.	1.6	9
126	The consequences of fire for the fauna of humid tropical forests. , 2009, , 543-556.		8

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127	A shared perspective on managing Amazonian sustainable-use reserves in an era of megafires. <i>Journal of Applied Ecology</i> , 2020, 57, 2132-2138.	4.0	8
128	Functional susceptibility of tropical forests to climate change. <i>Nature Ecology and Evolution</i> , 2022, 6, 878-889.	7.8	8
129	Can Management Improve the Value of Shade Plantations for the Endemic Species of São Tomé Island?. <i>Biotropica</i> , 2014, 46, 238-247.	1.6	7
130	Are we selecting appropriate metrics to assess human impacts on biodiversity?. <i>Basic and Applied Ecology</i> , 2017, 21, 85-93.	2.7	6
131	Leaf-litter production in human-modified Amazonian forests following the El Niño-mediated drought and fires of 2015-2016. <i>Forest Ecology and Management</i> , 2021, 496, 119441.	3.2	6
132	Assessing invertebrate herbivory in human-modified tropical forest canopies. <i>Ecology and Evolution</i> , 2021, 11, 4012-4022.	1.9	5
133	Comparing contemporary and lifetime rates of carbon accumulation from secondary forests in the eastern Amazon. <i>Forest Ecology and Management</i> , 2022, 508, 120053.	3.2	4
134	Achieving and communicating globally relevant applied ecological research. <i>Journal of Applied Ecology</i> , 2016, 53, 1-4.	4.0	3
135	Chapter 28: Restoration options for the Amazon. , 2021, , .		2
136	Predation on artificial caterpillars following understory fires in human-modified Amazonian forests. <i>Biotropica</i> , 2022, 54, 754-763.	1.6	1
137	Chapter 19: Drivers and ecological impacts of deforestation and forest degradation. , 2021, , .		1
138	Chapter 29: Restoration priorities and benefits within landscapes and catchments and across the Amazon basin. , 2021, , .		0
139	Chapter 27: Conservation measures to counter the main threats to Amazonian biodiversity. , 2021, , .		0