

Rodolfo Dirzo

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

17,802
citations

117453

34
h-index

49773

87
g-index

98
all docs

98
docs citations

98
times ranked

22323
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Biodiversity Scenarios for the Year 2100 ; Science, 2000, 287, 1770-1774.	6.0	7,077
2	Defaunation in the Anthropocene. Science, 2014, 345, 401-406.	6.0	2,810
3	Biological annihilation via the ongoing sixth mass extinction signaled by vertebrate population losses and declines. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6089-E6096.	3.3	1,666
4	Global State of Biodiversity and Loss. Annual Review of Environment and Resources, 2003, 28, 137-167.	5.6	982
5	Collapse of the world's largest herbivores. Science Advances, 2015, 1, e1400103.	4.7	750
6	Deforestation of seasonally dry tropical forest. Biological Conservation, 2000, 94, 133-142.	1.9	400
7	Bushmeat hunting and extinction risk to the world's mammals. Royal Society Open Science, 2016, 3, 160498.	1.1	349
8	Patterns, Causes, and Consequences of Anthropocene Defaunation. Annual Review of Ecology, Evolution, and Systematics, 2016, 47, 333-358.	3.8	326
9	Merging paleobiology with conservation biology to guide the future of terrestrial ecosystems. Science, 2017, 355, .	6.0	260
10	Rates of Deforestation in Los Tuxtlas, a Neotropical Area in Southeast Mexico. Conservation Biology, 1992, 6, 84-90.	2.4	248
11	Ecological and evolutionary consequences of living in a defaunated world. Biological Conservation, 2013, 163, 1-6.	1.9	190
12	Floristic diversity of Mexican seasonally dry tropical forests. Biodiversity and Conservation, 2002, 11, 2063-2084.	1.2	173
13	Saving the World's Terrestrial Megafauna. BioScience, 2016, 66, 807-812.	2.2	168
14	The Plight of Large Animals in Tropical Forests and the Consequences for Plant Regeneration. Biotropica, 2007, 39, 289-291.	0.8	153
15	Size-Related Differential Seed Predation in a Heavily Defaunated Neotropical Rain Forest. Biotropica, 2007, 39, 355-362.	0.8	141
16	Ontogenetic switches from plant resistance to tolerance: minimizing costs with age?. Ecology Letters, 2007, 10, 177-187.	3.0	113
17	Declines in large wildlife increase landscape-level prevalence of rodent-borne disease in Africa. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7036-7041.	3.3	107
18	Anthropogenic disturbances jeopardize biodiversity conservation within tropical rainforest reserves. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5323-5328.	3.3	101

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19	From wing to wing: the persistence of long ecological interaction chains in less-disturbed ecosystems. <i>Scientific Reports</i> , 2012, 2, 409.	1.6	93
20	Effects of mammalian herbivore declines on plant communities: observations and experiments in an African savanna. <i>Journal of Ecology</i> , 2013, 101, 1030-1041.	1.9	89
21	Plants cause ecosystem nutrient depletion via the interruption of bird-derived spatial subsidies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 2072-2077.	3.3	84
22	Reconstructing past ecological networks: the reconfiguration of seed-dispersal interactions after megafaunal extinction. <i>Oecologia</i> , 2014, 175, 1247-1256.	0.9	69
23	Distinct Leaf-trait Syndromes of Evergreen and Deciduous Trees in a Seasonally Dry Tropical Forest. <i>Biotropica</i> , 2011, 43, 299-308.	0.8	68
24	A quantitative analysis of forest fragmentation in Los Tuxtlas, southeast Mexico: patterns and implications for conservation. <i>Revista Chilena De Historia Natural</i> , 2005, 78, 451.	0.5	66
25	The effect of land use change and ecotourism on biodiversity: a case study of Manuel Antonio, Costa Rica, from 1985 to 2008. <i>Landscape Ecology</i> , 2012, 27, 731-744.	1.9	54
26	Seed size variation determines interspecific differential predation by mammals in a neotropical rain forest. <i>Oikos</i> , 2007, 116, 1841-1852.	1.2	51
27	Context-dependent effects of large wildlife declines on small mammal communities in central Kenya. <i>Ecological Applications</i> , 2015, 25, 348-360.	1.8	47
28	Forest conversion to cattle ranching differentially affects taxonomic and functional groups of Neotropical bats. <i>Biological Conservation</i> , 2017, 210, 343-348.	1.9	46
29	Agricultural intensification drives changes in hybrid network robustness by modifying network structure. <i>Ecology Letters</i> , 2020, 23, 359-369.	3.0	46
30	Differentiating genetic and environmental drivers of plant-pathogen community interactions. <i>Journal of Ecology</i> , 2014, 102, 1300-1309.	1.9	45
31	Human-mediated impacts on biodiversity and the consequences for zoonotic disease spillover. <i>Current Biology</i> , 2021, 31, R1342-R1361.	1.8	40
32	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, 20160116.	1.8	39
33	Opening the silvicultural toolbox: A new framework for conserving biodiversity in Chilean timber plantations. <i>Forest Ecology and Management</i> , 2018, 425, 75-84.	1.4	39
34	Effects of Land Use on Plague (<i>Yersinia pestis</i>) Activity in Rodents in Tanzania. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015, 92, 776-783.	0.6	36
35	Experimental defaunation of terrestrial mammalian herbivores alters tropical rainforest understorey diversity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142580.	1.2	36
36	Influence of Tree Ontogeny on Plant-Herbivore Interactions. <i>Tree Physiology</i> , 2011, , 193-214.	0.9	36

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37	Prevalence of Tree Regeneration by Sprouting and Seeding Along a Rainfall Gradient in Hawai'i. <i>Biotropica</i> , 2010, 42, 80-86.	0.8	33
38	Phenotypic plasticity in plant defense across life stages: Inducibility, transgenerational induction, and transgenerational priming in wild radish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	32
39	Circling the drain: the extinction crisis and the future of humanity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, .	1.8	32
40	Long-term vegetation changes in a temperate forest impacted by climate change. <i>Ecosphere</i> , 2014, 5, 1-28.	1.0	31
41	Effects of Cattle Management on Oak Regeneration in Northern Californian Mediterranean Oak Woodlands. <i>PLoS ONE</i> , 2014, 9, e105472.	1.1	30
42	Drivers of Intensity and Prevalence of Flea Parasitism on Small Mammals in East African Savanna Ecosystems. <i>Journal of Parasitology</i> , 2015, 101, 327.	0.3	29
43	A novel method to improve individual animal identification based on camera-trapping data. <i>Journal of Wildlife Management</i> , 2011, 75, 973-979.	0.7	28
44	Species traits and interaction rules shape a species-rich seed dispersal interaction network. <i>Ecology and Evolution</i> , 2017, 7, 4496-4506.	0.8	28
45	Host plant phylogeny and abundance predict root-associated fungal community composition and diversity of mutualists and pathogens. <i>Journal of Ecology</i> , 2019, 107, 1557-1566.	1.9	27
46	Invasive rat eradication strongly impacts plant recruitment on a tropical atoll. <i>PLoS ONE</i> , 2018, 13, e0200743.	1.1	25
47	Genetic basis of pathogen community structure for foundation tree species in a common garden and in the wild. <i>Journal of Ecology</i> , 2013, 101, 867-877.	1.9	22
48	Restoration of plant-animal interactions in terrestrial ecosystems. <i>Biological Conservation</i> , 2022, 265, 109393.	1.9	22
49	Delineation of biogeomorphic land units across a tropical natural and humanized terrain in Los Tuxtlas, Veracruz, México. <i>Geomorphology</i> , 2010, 121, 245-256.	1.1	21
50	Post-dispersal seed recovery by animals: is it a plant- or an animal-driven process?. <i>Oikos</i> , 2016, 125, 1203-1210.	1.2	21
51	Tropical Forest Fragmentation Affects Floral Visitors but Not the Structure of Individual-Based Palm-Pollinator Networks. <i>PLoS ONE</i> , 2015, 10, e0121275.	1.1	21
52	Indirect effects of timber extraction on plant recruitment and diversity via reductions in abundance of frugivorous spider monkeys. <i>Journal of Tropical Ecology</i> , 2010, 26, 45-52.	0.5	20
53	The coconut palm, <i>Cocos nucifera</i> , impacts forest composition and soil characteristics at Palmyra Atoll, Central Pacific. <i>Journal of Vegetation Science</i> , 2010, 21, 1058-1068.	1.1	20
54	Differential plant damage due to litterfall in palm-dominated forest stands in a Central Pacific atoll. <i>Journal of Tropical Ecology</i> , 2014, 30, 231-236.	0.5	20

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55	Spatio-temporal variation of biotic and abiotic stress agents determines seedling survival in assisted oak regeneration. <i>Journal of Applied Ecology</i> , 2019, 56, 2663-2674.	1.9	19
56	Forest fragmentation and defaunation drive an unusual ecological cascade: Predation release, monkey population outburst and plant demographic collapse. <i>Biological Conservation</i> , 2020, 252, 108852.	1.9	18
57	Importance of the lilac-crowned parrot in pre-dispersal seed predation of <i>Astronium graveolens</i> in a Mexican tropical dry forest. <i>Journal of Tropical Ecology</i> , 2010, 26, 227-236.	0.5	17
58	Distinct responses of antagonistic and mutualistic networks to agricultural intensification. <i>Ecology</i> , 2020, 101, e03116.	1.5	17
59	Variation in Sexual Expression in <i>Jacaratia mexicana</i> (Caricaceae) in Southern Mexico: Frequency and Relative Seed Performance of Fruit-Producing Males. <i>Biotropica</i> , 2007, 39, 79-86.	0.8	16
60	Assessing sustainability in North America's ecosystems using criticality and information theory. <i>PLoS ONE</i> , 2018, 13, e0200382.	1.1	16
61	Differential diameter-size effects of forest management on tree species richness and community structure: implications for conservation. <i>Biodiversity and Conservation</i> , 2011, 20, 1571-1585.	1.2	15
62	Effects of grasses on sapling establishment and the role of transplanted saplings on the light environment of pastures: implications for tropical forest restoration. <i>Applied Vegetation Science</i> , 2013, 16, 296-304.	0.9	14
63	Habitat Heterogeneity Affects Plant and Arthropod Species Diversity and Turnover in Traditional Cornfields. <i>PLoS ONE</i> , 2015, 10, e0128950.	1.1	14
64	Conserving the World's Megafauna and Biodiversity: The Fierce Urgency of Now. <i>BioScience</i> , 0, , biw168.	2.2	14
65	The Animal Origin of Major Human Infectious Diseases: What Can Past Epidemics Teach Us About Preventing the Next Pandemic?. <i>Zoonoses</i> , 2022, 2, .	0.5	14
66	Large wildlife removal drives immune defence increases in rodents. <i>Functional Ecology</i> , 2016, 30, 799-807.	1.7	13
67	Transgenerational Plasticity in Flower Color Induced by Caterpillars. <i>Frontiers in Plant Science</i> , 2021, 12, 617815.	1.7	13
68	Floristic diversity of sabal palmetto woodland: an endemic and endangered vegetation type from Mexico. <i>Biodiversity and Conservation</i> , 2007, 16, 807-826.	1.2	12
69	Integrating Stand and Soil Properties to Understand Foliar Nutrient Dynamics during Forest Succession Following Slash-and-Burn Agriculture in the Bolivian Amazon. <i>PLoS ONE</i> , 2014, 9, e86042.	1.1	10
70	Rodent community responses to vegetation and landscape changes in early successional stages of tropical dry forest. <i>Forest Ecology and Management</i> , 2019, 433, 633-644.	1.4	10
71	Tropical Forests. <i>Ecological Studies</i> , 2001, , 251-276.	0.4	10
72	A review of philopatry and dispersal in felids living in an anthropised world. <i>Mammal Review</i> , 2022, 52, 208-220.	2.2	10

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73	Plant stages with biotic, indirect defences are more palatable and suffer less herbivory than their undefended counterparts. <i>Biological Journal of the Linnean Society</i> , 2010, 101, 536-543.	0.7	9
74	Predator-prey interactions of terrestrial invertebrates are determined by predator body size and species identity. <i>Ecology</i> , 2022, 103, e3634.	1.5	9
75	Changes in livestock footprint and tree layer coverage in Mediterranean dehesas: a six-decade study based on remote sensing. <i>International Journal of Remote Sensing</i> , 2018, 39, 4727-4743.	1.3	8
76	Cumulative effects of transgenerational induction on plant palatability to generalist and specialist herbivores. <i>Web Ecology</i> , 2018, 18, 41-46.	0.4	7
77	Community composition and diversity of Neotropical root-associated fungi in common and rare trees. <i>Biotropica</i> , 2018, 50, 694-703.	0.8	6
78	An island of wildlife in a human-dominated landscape: The last fragment of primary forest on the Osa Peninsula's Golfo Dulce coastline, Costa Rica. <i>PLoS ONE</i> , 2019, 14, e0214390.	1.1	6
79	Patterns of orchid bee species diversity and turnover among forested plateaus of central Amazonia. <i>PLoS ONE</i> , 2017, 12, e0175884.	1.1	6
80	Rapid morphological change in a small mammal species after habitat fragmentation over the past half-century. <i>Diversity and Distributions</i> , 2021, 27, 2615-2628.	1.9	6
81	Impacts of Anthropocene Defaunation on Plant-Animal Interactions. , 2021, , 333-345.		5
82	Tropical rainforest fragmentation affects plant species richness, composition and abundance depending on plant-size class and life history. <i>Botanical Sciences</i> , 2021, 99, 92-103.	0.3	5
83	Early plant development depends on embryo damage location: the role of seed size in partial seed predation. <i>Oikos</i> , 2020, 129, 320-330.	1.2	4
84	A field experiment to determine the effect of dry-season irrigation on vegetative and reproductive traits in the wet-deciduous tree <i>Bonellia nervosa</i> . <i>Journal of Tropical Ecology</i> , 2020, 36, 29-35.	0.5	3
85	Logging drives contrasting animal body-size effects on tropical forest mammal communities. <i>Forest Ecology and Management</i> , 2021, 481, 118700.	1.4	3
86	Effects of Domestic and Wild Ungulate Management on Young Oak Size and Architecture. <i>Sustainability</i> , 2021, 13, 7930.	1.6	3
87	Intersexual comparison of DNA content by flow cytometry, and chromosome number in four dioecious <i>Chamaedorea</i> palms from Mexico. <i>Caryologia</i> , 2012, 65, 263-270.	0.2	2
88	Incidence of Galls on Sympatric California Oaks: Ecological and Physiological Perspectives. <i>Diversity</i> , 2021, 13, 20.	0.7	2
89	Disruption of Plant-Herbivore Interactions in Light of the Current Defaunation Crisis. , 2020, , 227-246.		1
90	José Mario Molina: Life and legacy of a man who helped to save Earth's ozone layer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2023954118.	3.3	1

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91	Jaguars, tapirs, and lessons in conservation ecology. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 470-471.	1.9	0
92	Frugivore Population Biomass, but Not Density, Affect Seed Dispersal Interactions in a Hyper-Diverse Frugivory Network. <i>Frontiers in Ecology and Evolution</i> , 2022, 10, .	1.1	0