Paulo R GuimarÃ£es Jr

List of Publications by Year
in descending order

144 papers	11,124 citations	36303 51 h-index	33894 99 g-index
154 all docs	154 docs citations	154 times ranked	9652 citing authors

#	Article	IF	Citations
1	Trophic rewilding benefits a tropical community through direct and indirect network effects. Ecography, 2022, 2022, .	4.5	8
2	The individualâ€based network structure of palmâ€seed dispersers is explained by a rainforest gradient. Oikos, 2022, 2022, .	2.7	5
3	Organisms as complex structures wrapped in a complex web of life. American Naturalist, 2022, 199, 804-807.	2.1	0
4	Ehrlich and Raven escape and radiate coevolution hypothesis at different levels of organization: Past and future perspectives. Evolution; International Journal of Organic Evolution, 2022, 76, 1108-1123.	2.3	4
5	Using motifs in ecological networks to identify the role of plants in crop margins for multiple agriculture functions. Agriculture, Ecosystems and Environment, 2022, 331, 107912.	5.3	2
6	Network science: Applications for sustainable agroecosystems and food security. Perspectives in Ecology and Conservation, 2022, 20, 79-90.	1.9	7
7	Frugivore Population Biomass, but Not Density, Affect Seed Dispersal Interactions in a Hyper-Diverse Frugivory Network. Frontiers in Ecology and Evolution, 2022, 10, .	2.2	0
8	Habitat generalist species constrain the diversity of mimicry rings in heterogeneous habitats. Scientific Reports, 2021, 11, 5072.	3.3	10
9	Network analyses reveal the role of large snakes in connecting feeding guilds in a speciesâ€rich Amazonian snake community. Ecology and Evolution, 2021, 11, 6558-6568.	1.9	4
10	Macroevolutionary stability predicts interaction patterns of species in seed dispersal networks. Science, 2021, 372, 733-737.	12.6	18
11	In remembrance of Victor Rico Gray (1951â€2021): An astonishing tropical ecologist. Biotropica, 2021, 53, 1238-1243.	1.6	0
12	Resource partitioning between fisheries and endangered sharks in a tropical marine food web. ICES Journal of Marine Science, 2021, 78, 2518-2527.	2.5	2
13	Temporal organization among pollination systems in a tropical seasonal forest. Die Naturwissenschaften, 2021, 108, 34.	1.6	4
14	Identifying plant mixes for multiple ecosystem service provision in agricultural systems using ecological networks. Journal of Applied Ecology, 2021, 58, 2770-2782.	4.0	22
15	Annual precipitation predicts the phylogenetic signal in batâ€"fruit interaction networks across the Neotropics. Biology Letters, 2021, 17, 20210478.	2.3	10
16	Coevolution by different functional mechanisms modulates the structure and dynamics of antagonistic and mutualistic networks. Oikos, 2020, 129, 224-237.	2.7	26
17	Diverse interactions and ecosystem engineering can stabilize community assembly. Nature Communications, 2020, 11, 3307.	12.8	21
18	Before, during and after megafaunal extinctions: Human impact on Pleistocene-Holocene trophic networks in South Patagonia. Quaternary Science Reviews, 2020, 250, 106696.	3.0	12

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19	The Structure of Ecological Networks Across Levels of Organization. Annual Review of Ecology, Evolution, and Systematics, 2020, 51, 433-460.	8.3	128
20	Genetic correlations and ecological networks shape coevolving mutualisms. Ecology Letters, 2020, 23, 1789-1799.	6.4	13
21	Coevolutionary patterns caused by prey selection. Journal of Theoretical Biology, 2020, 501, 110327.	1.7	3
22	Associated evolution of fruit size, fruit colour and spines in Neotropical palms. Journal of Evolutionary Biology, 2020, 33, 858-868.	1.7	21
23	The indirect paths to cascading effects of extinctions in mutualistic networks. Ecology, 2020, 101, e03080.	3.2	37
24	Analysing ecological networks of species interactions. Biological Reviews, 2019, 94, 16-36.	10.4	347
25	Low-load pathogen spillover predicts shifts in skin microbiome and survival of a terrestrial-breeding amphibian. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191114.	2.6	29
26	Predicting the nonâ€linear collapse of plantâ€"frugivore networks due to habitat loss. Ecography, 2019, 42, 1765-1776.	4.5	22
27	Interaction strength promotes robustness against cascading effects in mutualistic networks. Scientific Reports, 2019, 9, 676.	3.3	20
28	Coevolution Creates Complex Mosaics across Large Landscapes. American Naturalist, 2019, 194, 217-229.	2.1	21
29	A Network Perspective for Community Assembly. Frontiers in Ecology and Evolution, 2019, 7, .	2.2	59
30	Extreme diversification of floral volatiles within and among species of <i>Lithophragma</i> (Saxifragaceae). Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4406-4415.	7.1	56
31	Loss of Generalist Plant Species and Functional Diversity Decreases the Robustness of a Seed Dispersal Network. Environmental Conservation, 2019, 46, 52-58.	1.3	18
32	Does the sociality of pollinators shape the organisation of pollination networks?. Oikos, 2019, 128, 741-752.	2.7	12
33	Integrating Computational Methods to Investigate the Macroecology of Microbiomes. Frontiers in Genetics, 2019, 10, 1344.	2.3	7
34	Revealing biases in the sampling of ecological interaction networks. PeerJ, 2019, 7, e7566.	2.0	15
35	Does biological intimacy shape ecological network structure? A test using a brood pollination mutualism on continental and oceanic islands. Journal of Animal Ecology, 2018, 87, 1160-1171.	2.8	20
36	Local extinctions of obligate frugivores and patch size reduction disrupt the structure of seed dispersal networks. Ecography, 2018, 41, 1899-1909.	4.5	33

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37	Seedâ€dispersal interactions in fragmented landscapes â€“ a metanetwork approach. Ecology Letters, 2018, 21, 484-493.	6.4	115
38	Eco-evolutionary feedbacks promote fluctuating selection and long-term stability of antagonistic networks. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20172596.	2.6	19
39	Pleistocene megafaunal extinctions and the functional loss of longâ€distance seedâ€dispersal services. Ecography, 2018, 41, 153-163.	4.5	118
40	Ecological and evolutionary legacy of megafauna extinctions. Biological Reviews, 2018, 93, 845-862.	10.4	183
41	Species traits and abundance influence the organization of lianaâ€“tree antagonistic interaction. Austral Ecology, 2018, 43, 236-241.	1.5	6
42	The geographic mosaic of coevolution in mutualistic networks. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12017-12022.	7.1	50
43	Unifying host-associated diversification processes using butterflyâ€“plant networks. Nature Communications, 2018, 9, 5155.	12.8	35
44	Interaction paths promote module integration and network-level robustness of spliceosome to cascading effects. Scientific Reports, 2018, 8, 17441.	3.3	6
45	Adaptive Networks for Restoration Ecology. Trends in Ecology and Evolution, 2018, 33, 664-675.	8.7	67
46	Species-rich networks and eco-evolutionary synthesis at the metacommunity level. Nature Ecology and Evolution, 2017, 1, 24.	7.8	95
47	Untangling the Tangled Bank: A Novel Method for Partitioning the Effects of Phylogenies and Traits on Ecological Networks. Evolutionary Biology, 2017, 44, 312-324.	1.1	24
48	The friendship paradox in species-rich ecological networks: Implications for conservation and monitoring. Biological Conservation, 2017, 209, 245-252.	4.1	13
49	A multinomial network method for the analysis of mate choice and assortative mating in spatially structured populations. Methods in Ecology and Evolution, 2017, 8, 1321-1331.	5.2	9
50	Species traits and interaction rules shape a speciesâ€rich seedâ€dispersal interaction network. Ecology and Evolution, 2017, 7, 4496-4506.	1.9	28
51	Network Structure and Selection Asymmetry Drive Coevolution in Species-Rich Antagonistic Interactions. American Naturalist, 2017, 190, 99-115.	2.1	42
52	Indirect effects drive coevolution in mutualistic networks. Nature, 2017, 550, 511-514.	27.8	215
53	Nestedness across biological scales. PLoS ONE, 2017, 12, e0171691.	2.5	44
54	Small Marine Protected Areas in Fiji Provide Refuge for Reef Fish Assemblages, Feeding Groups, and Corals. PLoS ONE, 2017, 12, e0170638.	2.5	53

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55	Ecological networks: assembly and consequences. Oikos, 2016, 125, 443-445.	2.7	5
56	Network analyses support the role of prey preferences in shaping resource use patterns within five animal populations. Oikos, 2016, 125, 492-501.	2.7	16
57	Omnivory in birds is a macroevolutionary sink. Nature Communications, 2016, 7, 11250.	12.8	95
58	Unravelling Darwin's entangled bank: architecture and robustness of mutualistic networks with multiple interaction types. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20161564.	2.6	54
59	Nested speciesâ€rich networks of scavenging vertebrates support high levels of interspecific competition. Ecology, 2016, 97, 95-105.	3.2	54
60	The network organization of protein interactions in the spliceosome is reproduced by the simple rules of food-web models. Scientific Reports, 2015, 5, 14865.	3.3	8
61	The Robustness of Plant-Pollinator Assemblages: Linking Plant Interaction Patterns and Sensitivity to Pollinator Loss. PLoS ONE, 2015, 10, e0117243.	2.5	34
62	Native and Non-Native Supergeneralist Bee Species Have Different Effects on Plant-Bee Networks. PLoS ONE, 2015, 10, e0137198.	2.5	76
63	Persistence of Plants and Pollinators in the Face of Habitat Loss. Advances in Ecological Research, 2015, 53, 201-257.	2.7	17
64	Reply to Evans and Bar-Oz et al.: Recovering ecological pattern and process in Ancient Egypt. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E240-E240.	7.1	0
65	Below-ground plantâ€“fungus network topology is not congruent with above-ground plantâ€“animal network topology. Science Advances, 2015, 1, e1500291.	10.3	74
66	Pleistocene megafaunal interaction networks became more vulnerable after human arrival. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151367.	2.6	40
67	Macroecological trends in nestedness and modularity of seedâ€dispersal networks: human impact matters. Global Ecology and Biogeography, 2015, 24, 293-303.	5.8	92
68	A sexual network approach to sperm competition in a species with alternative mating tactics. Behavioral Ecology, 2015, 26, 121-129.	2.2	25
69	The structure of antâ€“plant ecological networks: Is abundance enough?. Ecology, 2014, 95, 475-485.	3.2	68
70	MODULAR: software for the autonomous computation of modularity in large network sets. Ecography, 2014, 37, 221-224.	4.5	138
71	Synchronisation and stability in river metapopulation networks. Ecology Letters, 2014, 17, 273-283.	6.4	62
72	Reconstructing past ecological networks: the reconfiguration of seed-dispersal interactions after megafaunal extinction. Oecologia, 2014, 175, 1247-1256.	2.0	69

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73	Assembly of complex plantâ€“fungus networks. Nature Communications, 2014, 5, 5273.	12.8	160
74	Collapse of an ecological network in Ancient Egypt. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14472-14477.	7.1	81
75	Frugivores at higher risk of extinction are the key elements of a mutualistic network. Ecology, 2014, 95, 3440-3447.	3.2	88
76	Conflicting Selection in the Course of Adaptive Diversification: The Interplay between Mutualism and Intraspecific Competition. American Naturalist, 2014, 183, 363-375.	2.1	26
77	The Spatial Structure of Antagonistic Species Affects Coevolution in Predictable Ways. American Naturalist, 2013, 182, 578-591.	2.1	38
78	The impact of climate change on the structure of Pleistocene food webs across the mammoth steppe. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20130239.	2.6	43
79	Impacts of enemyâ€mediated effects and the additivity of interactions in an insect trophic system. Population Ecology, 2013, 55, 11-26.	1.2	3
80	Interaction intimacy organizes networks of antagonistic interactions in different ways. Journal of the Royal Society Interface, 2013, 10, 20120649.	3.4	66
81	The dimensionality of ecological networks. Ecology Letters, 2013, 16, 577-583.	6.4	246
82	Large vertebrates as the missing components of seed-dispersal networks. Biological Conservation, 2013, 163, 42-48.	4.1	97
83	Spatial structure of antâ€“plant mutualistic networks. Oikos, 2013, 122, 1643-1648.	2.7	126
84	Functional Extinction of Birds Drives Rapid Evolutionary Changes in Seed Size. Science, 2013, 340, 1086-1090.	12.6	560
85	Long-term temporal variation in the organization of an antâ€“plant network. Annals of Botany, 2013, 111, 1285-1293.	2.9	52
86	Diversification through multitrait evolution in a coevolving interaction. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11487-11492.	7.1	60
87	Individual variation in resource use by opossums leading to nested fruit consumption. Oikos, 2013, 122, 1085-1093.	2.7	40
88	Fundamentos para o conteÃºdo e a implementaÃ§Ã£o da pÃ³s-graduaÃ§Ã£o em Ecologia. Revista Brasileira De PÃ³s-GraduaÃ§Ã£o, 2013, 10, .	0.1	0
89	Cleaning associations between birds and herbivorous mammals in Brazil: Structure and complexity. Auk, 2012, 129, 36-43.	1.4	22
90	Probabilistic patterns of interaction: the effects of link-strength variability on food web structure. Journal of the Royal Society Interface, 2012, 9, 3219-3228.	3.4	14

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91	Biodiversity, Species Interactions and Ecological Networks in a Fragmented World. Advances in Ecological Research, 2012, 46, 89-210.	2.7	284
92	Disentangling social networks from spatiotemporal dynamics: the temporal structure of a dolphin society. Animal Behaviour, 2012, 84, 641-651.	1.9	82
93	Abiotic factors shape temporal variation in the structure of an antâ€“plant network. Arthropod-Plant Interactions, 2012, 6, 289-295.	1.1	69
94	Mistletoes Play Different Roles in a Modular Hostâ€“Parasite Network. Biotropica, 2012, 44, 171-178.	1.6	21
95	Changes in intrapopulation resource use patterns of an endangered raptor in response to a diseaseâ€mediated crash in prey abundance. Journal of Animal Ecology, 2012, 81, 1154-1160.	2.8	13
96	Structure and mechanism of diet specialisation: testing models of individual variation in resource use with sea otters. Ecology Letters, 2012, 15, 475-483.	6.4	146
97	The Missing Part of Seed Dispersal Networks: Structure and Robustness of Bat-Fruit Interactions. PLoS ONE, 2011, 6, e17395.	2.5	116
98	Do Food Web Models Reproduce the Structure of Mutualistic Networks?. PLoS ONE, 2011, 6, e27280.	2.5	27
99	Merging Resource Availability with Isotope Mixing Models: The Role of Neutral Interaction Assumptions. PLoS ONE, 2011, 6, e22015.	2.5	26
100	Analysis of a hyper-diverse seed dispersal network: modularity and underlying mechanisms. Ecology Letters, 2011, 14, 773-781.	6.4	243
101	Evolution and coevolution in mutualistic networks. Ecology Letters, 2011, 14, 877-885.	6.4	256
102	The ecological and evolutionary implications of merging different types of networks. Ecology Letters, 2011, 14, 1170-1181.	6.4	332
103	The nested assembly of individual-resource networks. Journal of Animal Ecology, 2011, 80, 896-903.	2.8	80
104	The modularity of seed dispersal: differences in structure and robustness between batâ€" and birdâ€"fruit networks. Oecologia, 2011, 167, 131-40.	2.0	111
105	The role of predator overlap in the robustness and extinction of a four species predatorâ€"prey network. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 4725-4733.	2.6	3
106	Nested diets: a novel pattern of individual-level resource use. Oikos, 2010, 119, 81-88.	2.7	87
107	What makes a species central in a cleaning mutualism network?. Oikos, 2010, 119, 1319-1325.	2.7	70
108	Cheaters in mutualism networks. Biology Letters, 2010, 6, 494-497.	2.3	75

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109	Changes of a mutualistic network over time: reanalysis over a 10â€year period. Ecology, 2010, 91, 793-801.	3.2	99
110	Hyper abundant mesopredators and bird extinction in an Atlantic forest island. Zoologia, 2009, 26, 288-298.	0.5	26
111	Seed dispersal and predation in the endemic Atlantic rainforest palm <i>Astrocaryum aculeatissimum</i> across a gradient of seed disperser abundance. Ecological Research, 2009, 24, 1187-1195.	1.5	48
112	Searching for Modular Structure in Complex Phenotypes: Inferences from Network Theory. Evolutionary Biology, 2009, 36, 416.	1.1	13
113	A neutralâ€niche theory of nestedness in mutualistic networks. Oikos, 2008, 117, 1609-1618.	2.7	176
114	A consistent metric for nestedness analysis in ecological systems: reconciling concept and measurement. Oikos, 2008, 117, 1227-1239.	2.7	1,261
115	Spatial mating networks in insectâ€pollinated plants. Ecology Letters, 2008, 11, 490-498.	6.4	65
116	NETWORK ANALYSIS REVEALS CONTRASTING EFFECTS OF INTRASPECIFIC COMPETITION ON INDIVIDUAL VS. POPULATION DIETS. Ecology, 2008, 89, 1981-1993.	3.2	205
117	Factors affecting seed predation of Eriotheca gracilipes (Bombacaceae) by parakeets in a cerrado fragment. Acta Oecologica, 2008, 33, 240-245.	1.1	20
118	Seed Dispersal Anachronisms: Rethinking the Fruits Extinct Megafauna Ate. PLoS ONE, 2008, 3, e1745.	2.5	292
119	A neutral-niche theory of nestedness in mutualistic networks. Oikos, 2008, , .	2.7	1
120	Seed predation and fruit damage of Solanum lycocarpum (Solanaceae) by rodents in the cerrado of central Brazil. Acta Oecologica, 2007, 31, 8-12.	1.1	11
121	Interaction Intimacy Affects Structure and Coevolutionary Dynamics in Mutualistic Networks. Current Biology, 2007, 17, 1797-1803.	3.9	188
122	Vulnerability of a killer whale social network to disease outbreaks. Physical Review E, 2007, 76, 042901.	2.1	40
123	The nested structure of marine cleaning symbiosis: is it like flowers and bees?. Biology Letters, 2007, 3, 51-54.	2.3	92
124	Investigating small fish schools: Selection of schoolâ€"formation models by means of general linear models and numerical simulations. Journal of Theoretical Biology, 2007, 245, 784-789.	1.7	3
125	Non-random coextinctions in phylogenetically structured mutualistic networks. Nature, 2007, 448, 925-928.	27.8	470
126	On nestedness analyses: rethinking matrix temperature and antiâ€nestedness. Oikos, 2007, 116, 716-722.	2.7	115

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127	Build-up mechanisms determining the topology of mutualistic networks. Journal of Theoretical Biology, 2007, 249, 181-189.	1.7	37
128	On nestedness analyses: rethinking matrix temperature and anti-nestedness. Oikos, 2007, 116, 716-722.	2.7	4
129	Predicting invasive potential of smooth crotalaria (Crotalaria pallida) in Brazilian national parks based on African records. Weed Science, 2006, 54, 458-463.	1.5	14
130	Seed survival and dispersal of an endemic Atlantic forest palm: the combined effects of defaunation and forest fragmentation. Botanical Journal of the Linnean Society, 2006, 151, 141-149.	1.6	213
131	The goatfish Pseudupeneus maculatus and its follower fishes at an oceanic island in the tropical west Atlantic. Journal of Fish Biology, 2006, 69, 883-891.	1.6	29
132	Testing the quick meal hypothesis: The effect of pulp on hoarding and seed predation of Hymenaea courbaril by red-rumped agoutis (Dasyprocta leporina). Austral Ecology, 2006, 31, 95-98.	1.5	7
133	Extrafloral nectaries as a deterrent mechanism against seed predators in the chemically protected weed Crotalaria pallida (Leguminosae). Austral Ecology, 2006, 31, 776-782.	1.5	32
134	Why do larvae of Utetheisa ornatrix penetrate and feed in pods of Crotalaria species? Larval performance vs. chemical and physical constraints. Entomologia Experimentalis Et Applicata, 2006, 121, 23-29.	1.4	35
135	Improving the analyses of nestedness for large sets of matrices. Environmental Modelling and Software, 2006, 21, 1512-1513.	4.5	387
136	Asymmetries in specialization in antâ€"plant mutualistic networks. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 2041-2047.	2.6	191
137	Random initial condition in small Barabasi-Albert networks and deviations from the scale-free behavior. Physical Review E, 2005, 71, 037101.	2.1	25
138	Cache pilferage in red-rumped agoutis (Dasyprocta leporina) (Rodentia). Mammalia, 2005, 69, .	0.7	8
139	Size-based fruit selection of Calophyllum brasiliense (Clusiaceae) by bats of the genus Artibeus (Phyllostomidae) in a Restinga area, southeastern Brazil. Acta Chiropterologica, 2005, 7, 179-182.	0.6	25
140	Fleshy pulp enhances the location of Syagrus romanzoffiana (Arecaceae) fruits by seed-dispersing rodents in an Atlantic forest in south-eastern Brazil. Journal of Tropical Ecology, 2005, 21, 109-112.	1.1	23
141	Seed removal by ants from faeces produced by different vertebrate species. Ecoscience, 2005, 12, 136-140.	1.4	17
142	Quinolizidine alkaloids in Ormosia arborea seeds inhibit predation but not hoarding by agoutis (Dasyprocta leporina). Journal of Chemical Ecology, 2003, 29, 1065-1072.	1.8	34
143	Seed cleaning of Cupania vernalis (Sapindaceae) by ants: edge effect in a highland forest in south-east Brazil. Journal of Tropical Ecology, 2002, 18, 303-307.	1.1	27
144	Parrot populations and habitat use in and around two lowland Atlantic forest reserves, Brazil. Biological Conservation, 2000, 96, 209-217.	4.1	32