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List of Publications by Year in descending order

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Version: 2024-02-01

144
papers

11,124
citations

36303

51
h-index

33894

99
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154
all docs

154
docs citations

154
times ranked

9652
citing authors

#	ARTICLE	IF	CITATIONS
1	A consistent metric for nestedness analysis in ecological systems: reconciling concept and measurement. <i>Oikos</i> , 2008, 117, 1227-1239.	2.7	1,261
2	Functional Extinction of Birds Drives Rapid Evolutionary Changes in Seed Size. <i>Science</i> , 2013, 340, 1086-1090.	12.6	560
3	Non-random coextinctions in phylogenetically structured mutualistic networks. <i>Nature</i> , 2007, 448, 925-928.	27.8	470
4	Improving the analyses of nestedness for large sets of matrices. <i>Environmental Modelling and Software</i> , 2006, 21, 1512-1513.	4.5	387
5	Analysing ecological networks of species interactions. <i>Biological Reviews</i> , 2019, 94, 16-36.	10.4	347
6	The ecological and evolutionary implications of merging different types of networks. <i>Ecology Letters</i> , 2011, 14, 1170-1181.	6.4	332
7	Seed Dispersal Anachronisms: Rethinking the Fruits Extinct Megafauna Ate. <i>PLoS ONE</i> , 2008, 3, e1745.	2.5	292
8	Biodiversity, Species Interactions and Ecological Networks in a Fragmented World. <i>Advances in Ecological Research</i> , 2012, 46, 89-210.	2.7	284
9	Evolution and coevolution in mutualistic networks. <i>Ecology Letters</i> , 2011, 14, 877-885.	6.4	256
10	The dimensionality of ecological networks. <i>Ecology Letters</i> , 2013, 16, 577-583.	6.4	246
11	Analysis of a hyper-diverse seed dispersal network: modularity and underlying mechanisms. <i>Ecology Letters</i> , 2011, 14, 773-781.	6.4	243
12	Indirect effects drive coevolution in mutualistic networks. <i>Nature</i> , 2017, 550, 511-514.	27.8	215
13	Seed survival and dispersal of an endemic Atlantic forest palm: the combined effects of defaunation and forest fragmentation. <i>Botanical Journal of the Linnean Society</i> , 2006, 151, 141-149.	1.6	213
14	NETWORK ANALYSIS REVEALS CONTRASTING EFFECTS OF INTRASPECIFIC COMPETITION ON INDIVIDUAL VS. POPULATION DIETS. <i>Ecology</i> , 2008, 89, 1981-1993.	3.2	205
15	Asymmetries in specialization in ant-plant mutualistic networks. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 2041-2047.	2.6	191
16	Interaction Intimacy Affects Structure and Coevolutionary Dynamics in Mutualistic Networks. <i>Current Biology</i> , 2007, 17, 1797-1803.	3.9	188
17	Ecological and evolutionary legacy of megafauna extinctions. <i>Biological Reviews</i> , 2018, 93, 845-862.	10.4	183
18	A neutral niche theory of nestedness in mutualistic networks. <i>Oikos</i> , 2008, 117, 1609-1618.	2.7	176

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19	Assembly of complex plant-fungus networks. <i>Nature Communications</i> , 2014, 5, 5273.	12.8	160
20	Structure and mechanism of diet specialisation: testing models of individual variation in resource use with sea otters. <i>Ecology Letters</i> , 2012, 15, 475-483.	6.4	146
21	MODULAR: software for the autonomous computation of modularity in large network sets. <i>Ecography</i> , 2014, 37, 221-224.	4.5	138
22	The Structure of Ecological Networks Across Levels of Organization. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2020, 51, 433-460.	8.3	128
23	Spatial structure of ant-plant mutualistic networks. <i>Oikos</i> , 2013, 122, 1643-1648.	2.7	126
24	Pleistocene megafaunal extinctions and the functional loss of long-distance seed dispersal services. <i>Ecography</i> , 2018, 41, 153-163.	4.5	118
25	The Missing Part of Seed Dispersal Networks: Structure and Robustness of Bat-Fruit Interactions. <i>PLoS ONE</i> , 2011, 6, e17395.	2.5	116
26	On nestedness analyses: rethinking matrix temperature and anti-nestedness. <i>Oikos</i> , 2007, 116, 716-722.	2.7	115
27	Seed dispersal interactions in fragmented landscapes - a metanetwork approach. <i>Ecology Letters</i> , 2018, 21, 484-493.	6.4	115
28	The modularity of seed dispersal: differences in structure and robustness between bat and bird-fruit networks. <i>Oecologia</i> , 2011, 167, 131-40.	2.0	111
29	Changes of a mutualistic network over time: reanalysis over a 10-year period. <i>Ecology</i> , 2010, 91, 793-801.	3.2	99
30	Large vertebrates as the missing components of seed-dispersal networks. <i>Biological Conservation</i> , 2013, 163, 42-48.	4.1	97
31	Omnivory in birds is a macroevolutionary sink. <i>Nature Communications</i> , 2016, 7, 11250.	12.8	95
32	Species-rich networks and eco-evolutionary synthesis at the metacommunity level. <i>Nature Ecology and Evolution</i> , 2017, 1, 24.	7.8	95
33	The nested structure of marine cleaning symbiosis: is it like flowers and bees?. <i>Biology Letters</i> , 2007, 3, 51-54.	2.3	92
34	Macroecological trends in nestedness and modularity of seed dispersal networks: human impact matters. <i>Global Ecology and Biogeography</i> , 2015, 24, 293-303.	5.8	92
35	Frugivores at higher risk of extinction are the key elements of a mutualistic network. <i>Ecology</i> , 2014, 95, 3440-3447.	3.2	88
36	Nested diets: a novel pattern of individual-level resource use. <i>Oikos</i> , 2010, 119, 81-88.	2.7	87

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37	Disentangling social networks from spatiotemporal dynamics: the temporal structure of a dolphin society. <i>Animal Behaviour</i> , 2012, 84, 641-651.	1.9	82
38	Collapse of an ecological network in Ancient Egypt. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14472-14477.	7.1	81
39	The nested assembly of individual-resource networks. <i>Journal of Animal Ecology</i> , 2011, 80, 896-903.	2.8	80
40	Native and Non-Native Supergeneralist Bee Species Have Different Effects on Plant-Bee Networks. <i>PLoS ONE</i> , 2015, 10, e0137198.	2.5	76
41	Cheaters in mutualism networks. <i>Biology Letters</i> , 2010, 6, 494-497.	2.3	75
42	Below-ground plant-fungus network topology is not congruent with above-ground plant-animal network topology. <i>Science Advances</i> , 2015, 1, e1500291.	10.3	74
43	What makes a species central in a cleaning mutualism network?. <i>Oikos</i> , 2010, 119, 1319-1325.	2.7	70
44	Abiotic factors shape temporal variation in the structure of an ant-plant network. <i>Arthropod-Plant Interactions</i> , 2012, 6, 289-295.	1.1	69
45	Reconstructing past ecological networks: the reconfiguration of seed-dispersal interactions after megafaunal extinction. <i>Oecologia</i> , 2014, 175, 1247-1256.	2.0	69
46	The structure of ant-plant ecological networks: Is abundance enough?. <i>Ecology</i> , 2014, 95, 475-485.	3.2	68
47	Adaptive Networks for Restoration Ecology. <i>Trends in Ecology and Evolution</i> , 2018, 33, 664-675.	8.7	67
48	Interaction intimacy organizes networks of antagonistic interactions in different ways. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120649.	3.4	66
49	Spatial mating networks in insect-pollinated plants. <i>Ecology Letters</i> , 2008, 11, 490-498.	6.4	65
50	Synchronisation and stability in river metapopulation networks. <i>Ecology Letters</i> , 2014, 17, 273-283.	6.4	62
51	Diversification through multitrait evolution in a coevolving interaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11487-11492.	7.1	60
52	A Network Perspective for Community Assembly. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	2.2	59
53	Extreme diversification of floral volatiles within and among species of <i>Lithophragma</i> (Saxifragaceae). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4406-4415.	7.1	56
54	Unravelling Darwin's entangled bank: architecture and robustness of mutualistic networks with multiple interaction types. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161564.	2.6	54

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55	Nested species-rich networks of scavenging vertebrates support high levels of interspecific competition. <i>Ecology</i> , 2016, 97, 95-105.	3.2	54
56	Small Marine Protected Areas in Fiji Provide Refuge for Reef Fish Assemblages, Feeding Groups, and Corals. <i>PLoS ONE</i> , 2017, 12, e0170638.	2.5	53
57	Long-term temporal variation in the organization of an ant-plant network. <i>Annals of Botany</i> , 2013, 111, 1285-1293.	2.9	52
58	The geographic mosaic of coevolution in mutualistic networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12017-12022.	7.1	50
59	Seed dispersal and predation in the endemic Atlantic rainforest palm <i>Astrocaryum aculeatissimum</i> across a gradient of seed disperser abundance. <i>Ecological Research</i> , 2009, 24, 1187-1195.	1.5	48
60	Nestedness across biological scales. <i>PLoS ONE</i> , 2017, 12, e0171691.	2.5	44
61	The impact of climate change on the structure of Pleistocene food webs across the mammoth steppe. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130239.	2.6	43
62	Network Structure and Selection Asymmetry Drive Coevolution in Species-Rich Antagonistic Interactions. <i>American Naturalist</i> , 2017, 190, 99-115.	2.1	42
63	Vulnerability of a killer whale social network to disease outbreaks. <i>Physical Review E</i> , 2007, 76, 042901.	2.1	40
64	Pleistocene megafaunal interaction networks became more vulnerable after human arrival. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20151367.	2.6	40
65	Individual variation in resource use by opossums leading to nested fruit consumption. <i>Oikos</i> , 2013, 122, 1085-1093.	2.7	40
66	The Spatial Structure of Antagonistic Species Affects Coevolution in Predictable Ways. <i>American Naturalist</i> , 2013, 182, 578-591.	2.1	38
67	Build-up mechanisms determining the topology of mutualistic networks. <i>Journal of Theoretical Biology</i> , 2007, 249, 181-189.	1.7	37
68	The indirect paths to cascading effects of extinctions in mutualistic networks. <i>Ecology</i> , 2020, 101, e03080.	3.2	37
69	Why do larvae of <i>Utetheisa ornatrix</i> penetrate and feed in pods of <i>Crotalaria</i> species? Larval performance vs. chemical and physical constraints. <i>Entomologia Experimentalis Et Applicata</i> , 2006, 121, 23-29.	1.4	35
70	Unifying host-associated diversification processes using butterfly-plant networks. <i>Nature Communications</i> , 2018, 9, 5155.	12.8	35
71	Quinolizidine alkaloids in <i>Ormosia arborea</i> seeds inhibit predation but not hoarding by agoutis (<i>Dasyprocta leporina</i>). <i>Journal of Chemical Ecology</i> , 2003, 29, 1065-1072.	1.8	34
72	The Robustness of Plant-Pollinator Assemblages: Linking Plant Interaction Patterns and Sensitivity to Pollinator Loss. <i>PLoS ONE</i> , 2015, 10, e0117243.	2.5	34

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73	Local extinctions of obligate frugivores and patch size reduction disrupt the structure of seed dispersal networks. <i>Ecography</i> , 2018, 41, 1899-1909.	4.5	33
74	Parrot populations and habitat use in and around two lowland Atlantic forest reserves, Brazil. <i>Biological Conservation</i> , 2000, 96, 209-217.	4.1	32
75	Extrafloral nectaries as a deterrent mechanism against seed predators in the chemically protected weed <i>Crotalaria pallida</i> (Leguminosae). <i>Austral Ecology</i> , 2006, 31, 776-782.	1.5	32
76	The goatfish <i>Pseudupeneus maculatus</i> and its follower fishes at an oceanic island in the tropical west Atlantic. <i>Journal of Fish Biology</i> , 2006, 69, 883-891.	1.6	29
77	Low-load pathogen spillover predicts shifts in skin microbiome and survival of a terrestrial-breeding amphibian. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20191114.	2.6	29
78	Species traits and interaction rules shape a species-rich seed-dispersal interaction network. <i>Ecology and Evolution</i> , 2017, 7, 4496-4506.	1.9	28
79	Seed cleaning of <i>Cupania vernalis</i> (Sapindaceae) by ants: edge effect in a highland forest in south-east Brazil. <i>Journal of Tropical Ecology</i> , 2002, 18, 303-307.	1.1	27
80	Do Food Web Models Reproduce the Structure of Mutualistic Networks?. <i>PLoS ONE</i> , 2011, 6, e27280.	2.5	27
81	Hyper abundant mesopredators and bird extinction in an Atlantic forest island. <i>Zoologia</i> , 2009, 26, 288-298.	0.5	26
82	Merging Resource Availability with Isotope Mixing Models: The Role of Neutral Interaction Assumptions. <i>PLoS ONE</i> , 2011, 6, e22015.	2.5	26
83	Conflicting Selection in the Course of Adaptive Diversification: The Interplay between Mutualism and Intraspecific Competition. <i>American Naturalist</i> , 2014, 183, 363-375.	2.1	26
84	Coevolution by different functional mechanisms modulates the structure and dynamics of antagonistic and mutualistic networks. <i>Oikos</i> , 2020, 129, 224-237.	2.7	26
85	Random initial condition in small Barabasi-Albert networks and deviations from the scale-free behavior. <i>Physical Review E</i> , 2005, 71, 037101.	2.1	25
86	Size-based fruit selection of <i>Calophyllum brasiliense</i> (Clusiaceae) by bats of the genus <i>Artibeus</i> (Phyllostomidae) in a Restinga area, southeastern Brazil. <i>Acta Chiropterologica</i> , 2005, 7, 179-182.	0.6	25
87	A sexual network approach to sperm competition in a species with alternative mating tactics. <i>Behavioral Ecology</i> , 2015, 26, 121-129.	2.2	25
88	Untangling the Tangled Bank: A Novel Method for Partitioning the Effects of Phylogenies and Traits on Ecological Networks. <i>Evolutionary Biology</i> , 2017, 44, 312-324.	1.1	24
89	Fleshy pulp enhances the location of <i>Syagrus romanzoffiana</i> (Arecaceae) fruits by seed-dispersing rodents in an Atlantic forest in south-eastern Brazil. <i>Journal of Tropical Ecology</i> , 2005, 21, 109-112.	1.1	23
90	Cleaning associations between birds and herbivorous mammals in Brazil: Structure and complexity. <i>Auk</i> , 2012, 129, 36-43.	1.4	22

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91	Predicting the non-linear collapse of plant-frugivore networks due to habitat loss. <i>Ecography</i> , 2019, 42, 1765-1776.	4.5	22
92	Identifying plant mixes for multiple ecosystem service provision in agricultural systems using ecological networks. <i>Journal of Applied Ecology</i> , 2021, 58, 2770-2782.	4.0	22
93	Mistletoes Play Different Roles in a Modular Host-Parasite Network. <i>Biotropica</i> , 2012, 44, 171-178.	1.6	21
94	Coevolution Creates Complex Mosaics across Large Landscapes. <i>American Naturalist</i> , 2019, 194, 217-229.	2.1	21
95	Diverse interactions and ecosystem engineering can stabilize community assembly. <i>Nature Communications</i> , 2020, 11, 3307.	12.8	21
96	Associated evolution of fruit size, fruit colour and spines in Neotropical palms. <i>Journal of Evolutionary Biology</i> , 2020, 33, 858-868.	1.7	21
97	Factors affecting seed predation of <i>Eriotheca gracilipes</i> (Bombacaceae) by parakeets in a cerrado fragment. <i>Acta Oecologica</i> , 2008, 33, 240-245.	1.1	20
98	Does biological intimacy shape ecological network structure? A test using a brood pollination mutualism on continental and oceanic islands. <i>Journal of Animal Ecology</i> , 2018, 87, 1160-1171.	2.8	20
99	Interaction strength promotes robustness against cascading effects in mutualistic networks. <i>Scientific Reports</i> , 2019, 9, 676.	3.3	20
100	Eco-evolutionary feedbacks promote fluctuating selection and long-term stability of antagonistic networks. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20172596.	2.6	19
101	Loss of Generalist Plant Species and Functional Diversity Decreases the Robustness of a Seed Dispersal Network. <i>Environmental Conservation</i> , 2019, 46, 52-58.	1.3	18
102	Macroevolutionary stability predicts interaction patterns of species in seed dispersal networks. <i>Science</i> , 2021, 372, 733-737.	12.6	18
103	Seed removal by ants from faeces produced by different vertebrate species. <i>Ecoscience</i> , 2005, 12, 136-140.	1.4	17
104	Persistence of Plants and Pollinators in the Face of Habitat Loss. <i>Advances in Ecological Research</i> , 2015, 53, 201-257.	2.7	17
105	Network analyses support the role of prey preferences in shaping resource use patterns within five animal populations. <i>Oikos</i> , 2016, 125, 492-501.	2.7	16
106	Revealing biases in the sampling of ecological interaction networks. <i>PeerJ</i> , 2019, 7, e7566.	2.0	15
107	Predicting invasive potential of smooth crotalaria (<i>Crotalaria pallida</i>) in Brazilian national parks based on African records. <i>Weed Science</i> , 2006, 54, 458-463.	1.5	14
108	Probabilistic patterns of interaction: the effects of link-strength variability on food web structure. <i>Journal of the Royal Society Interface</i> , 2012, 9, 3219-3228.	3.4	14

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109	Searching for Modular Structure in Complex Phenotypes: Inferences from Network Theory. <i>Evolutionary Biology</i> , 2009, 36, 416.	1.1	13
110	Changes in intrapopulation resource use patterns of an endangered raptor in response to a disease-mediated crash in prey abundance. <i>Journal of Animal Ecology</i> , 2012, 81, 1154-1160.	2.8	13
111	The friendship paradox in species-rich ecological networks: Implications for conservation and monitoring. <i>Biological Conservation</i> , 2017, 209, 245-252.	4.1	13
112	Genetic correlations and ecological networks shape coevolving mutualisms. <i>Ecology Letters</i> , 2020, 23, 1789-1799.	6.4	13
113	Does the sociality of pollinators shape the organisation of pollination networks?. <i>Oikos</i> , 2019, 128, 741-752.	2.7	12
114	Before, during and after megafaunal extinctions: Human impact on Pleistocene-Holocene trophic networks in South Patagonia. <i>Quaternary Science Reviews</i> , 2020, 250, 106696.	3.0	12
115	Seed predation and fruit damage of <i>Solanum lycocarpum</i> (Solanaceae) by rodents in the cerrado of central Brazil. <i>Acta Oecologica</i> , 2007, 31, 8-12.	1.1	11
116	Habitat generalist species constrain the diversity of mimicry rings in heterogeneous habitats. <i>Scientific Reports</i> , 2021, 11, 5072.	3.3	10
117	Annual precipitation predicts the phylogenetic signal in bat-fruit interaction networks across the Neotropics. <i>Biology Letters</i> , 2021, 17, 20210478.	2.3	10
118	A multinomial network method for the analysis of mate choice and assortative mating in spatially structured populations. <i>Methods in Ecology and Evolution</i> , 2017, 8, 1321-1331.	5.2	9
119	Cache pilferage in red-rumped agoutis (<i>Dasyprocta leporina</i>) (Rodentia). <i>Mammalia</i> , 2005, 69, .	0.7	8
120	The network organization of protein interactions in the spliceosome is reproduced by the simple rules of food-web models. <i>Scientific Reports</i> , 2015, 5, 14865.	3.3	8
121	Trophic rewilding benefits a tropical community through direct and indirect network effects. <i>Ecography</i> , 2022, 2022, .	4.5	8
122	Testing the quick meal hypothesis: The effect of pulp on hoarding and seed predation of <i>Hymenaea courbaril</i> by red-rumped agoutis (<i>Dasyprocta leporina</i>). <i>Austral Ecology</i> , 2006, 31, 95-98.	1.5	7
123	Integrating Computational Methods to Investigate the Macroecology of Microbiomes. <i>Frontiers in Genetics</i> , 2019, 10, 1344.	2.3	7
124	Network science: Applications for sustainable agroecosystems and food security. <i>Perspectives in Ecology and Conservation</i> , 2022, 20, 79-90.	1.9	7
125	Species traits and abundance influence the organization of liana-tree antagonistic interaction. <i>Austral Ecology</i> , 2018, 43, 236-241.	1.5	6
126	Interaction paths promote module integration and network-level robustness of spliceosome to cascading effects. <i>Scientific Reports</i> , 2018, 8, 17441.	3.3	6

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127	Ecological networks: assembly and consequences. <i>Oikos</i> , 2016, 125, 443-445.	2.7	5
128	The individual-based network structure of palm seed dispersers is explained by a rainforest gradient. <i>Oikos</i> , 2022, 2022, .	2.7	5
129	Network analyses reveal the role of large snakes in connecting feeding guilds in a species-rich Amazonian snake community. <i>Ecology and Evolution</i> , 2021, 11, 6558-6568.	1.9	4
130	Temporal organization among pollination systems in a tropical seasonal forest. <i>Die Naturwissenschaften</i> , 2021, 108, 34.	1.6	4
131	On nestedness analyses: rethinking matrix temperature and anti-nestedness. <i>Oikos</i> , 2007, 116, 716-722.	2.7	4
132	Ehrlich and Raven escape and radiate coevolution hypothesis at different levels of organization: Past and future perspectives. <i>Evolution; International Journal of Organic Evolution</i> , 2022, 76, 1108-1123.	2.3	4
133	Investigating small fish schools: Selection of school formation models by means of general linear models and numerical simulations. <i>Journal of Theoretical Biology</i> , 2007, 245, 784-789.	1.7	3
134	The role of predator overlap in the robustness and extinction of a four species predator-prey network. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 4725-4733.	2.6	3
135	Impacts of enemy-mediated effects and the additivity of interactions in an insect trophic system. <i>Population Ecology</i> , 2013, 55, 11-26.	1.2	3
136	Coevolutionary patterns caused by prey selection. <i>Journal of Theoretical Biology</i> , 2020, 501, 110327.	1.7	3
137	Resource partitioning between fisheries and endangered sharks in a tropical marine food web. <i>ICES Journal of Marine Science</i> , 2021, 78, 2518-2527.	2.5	2
138	Using motifs in ecological networks to identify the role of plants in crop margins for multiple agriculture functions. <i>Agriculture, Ecosystems and Environment</i> , 2022, 331, 107912.	5.3	2
139	A neutral-niche theory of nestedness in mutualistic networks. <i>Oikos</i> , 2008, , .	2.7	1
140	Reply to Evans and Bar-Oz et al.: Recovering ecological pattern and process in Ancient Egypt. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E240-E240.	7.1	0
141	In remembrance of Victor Rico Gray (1951-2021): An astonishing tropical ecologist. <i>Biotropica</i> , 2021, 53, 1238-1243.	1.6	0
142	Fundamentos para o conteúdo e a implementação da pós-graduação em Ecologia. <i>Revista Brasileira De Pós-Graduação</i> , 2013, 10, .	0.1	0
143	Organisms as complex structures wrapped in a complex web of life. <i>American Naturalist</i> , 2022, 199, 804-807.	2.1	0
144	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, .	2.2	0