

Jose M Montoya

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

11,090
citations

71102

41
h-index

85541

71
g-index

84
all docs

84
docs citations

84
times ranked

13349
citing authors

#	ARTICLE	IF	CITATIONS
1	Ecological networks and their fragility. <i>Nature</i> , 2006, 442, 259-264.	27.8	1,064
2	Body size in ecological networks. <i>Trends in Ecology and Evolution</i> , 2005, 20, 402-409.	8.7	931
3	Review: Ecological networks "beyond food webs". <i>Journal of Animal Ecology</i> , 2009, 78, 253-269.	2.8	765
4	Diversity, structure and convergent evolution of the global sponge microbiome. <i>Nature Communications</i> , 2016, 7, 11870.	12.8	594
5	Interaction strengths in food webs: issues and opportunities. <i>Journal of Animal Ecology</i> , 2004, 73, 585-598.	2.8	557
6	Small World Patterns in Food Webs. <i>Journal of Theoretical Biology</i> , 2002, 214, 405-412.	1.7	509
7	Emerging horizons in biodiversity and ecosystem functioning research. <i>Trends in Ecology and Evolution</i> , 2009, 24, 505-514.	8.7	486
8	Navigating the complexity of ecological stability. <i>Ecology Letters</i> , 2016, 19, 1172-1185.	6.4	401
9	Reconciling the temperature dependence of respiration across timescales and ecosystem types. <i>Nature</i> , 2012, 487, 472-476.	27.8	369
10	Towards novel approaches to modelling biotic interactions in multispecies assemblages at large spatial extents. <i>Journal of Biogeography</i> , 2012, 39, 2163-2178.	3.0	340
11	Warming alters the metabolic balance of ecosystems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 2117-2126.	4.0	322
12	On the dimensionality of ecological stability. <i>Ecology Letters</i> , 2013, 16, 421-429.	6.4	315
13	Warming alters the size spectrum and shifts the distribution of biomass in freshwater ecosystems. <i>Global Change Biology</i> , 2011, 17, 1681-1694.	9.5	295
14	Scaling "biodiversity" ecosystem functioning research. <i>Ecology Letters</i> , 2020, 23, 757-776.	6.4	270
15	Climate change, biotic interactions and ecosystem services. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 2013-2018.	4.0	241
16	The sponge microbiome project. <i>GigaScience</i> , 2017, 6, 1-7.	6.4	193
17	Warming effects on marine microbial food web processes: how far can we go when it comes to predictions?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 2137-2149.	4.0	192
18	Evaluating the core microbiota in complex communities: A systematic investigation. <i>Environmental Microbiology</i> , 2017, 19, 1450-1462.	3.8	187

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19	Novel communities from climate change. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 2913-2922.	4.0	165
20	Topological properties of food webs: from real data to community assembly models. <i>Oikos</i> , 2003, 102, 614-622.	2.7	154
21	Climate change in size-structured ecosystems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 2903-2912.	4.0	153
22	Thresholds for ecological responses to global change do not emerge from empirical data. <i>Nature Ecology and Evolution</i> , 2020, 4, 1502-1509.	7.8	151
23	Warming alters community size structure and ecosystem functioning. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 3011-3019.	2.6	148
24	Selection, tinkering, and emergence in complex networks. <i>Complexity</i> , 2002, 8, 20-33.	1.6	146
25	Press perturbations and indirect effects in real food webs. <i>Ecology</i> , 2009, 90, 2426-2433.	3.2	136
26	Five Years of Experimental Warming Increases the Biodiversity and Productivity of Phytoplankton. <i>PLoS Biology</i> , 2015, 13, e1002324.	5.6	111
27	Ecological Networks in a Changing Climate. <i>Advances in Ecological Research</i> , 2010, , 71-138.	2.7	110
28	Biodiversity as insurance: from concept to measurement and application. <i>Biological Reviews</i> , 2021, 96, 2333-2354.	10.4	101
29	Food web complexity and higher-level ecosystem services. <i>Ecology Letters</i> , 2003, 6, 587-593.	6.4	100
30	Phytoplankton functional diversity increases ecosystem productivity and stability. <i>Ecological Modelling</i> , 2017, 361, 184-196.	2.5	98
31	Modularity and predicted functions of the global sponge-microbiome network. <i>Nature Communications</i> , 2019, 10, 992.	12.8	94
32	Recovery after mass extinction: evolutionary assembly in large-scale biosphere dynamics. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2002, 357, 697-707.	4.0	87
33	Vertical transmission of sponge microbiota is inconsistent and unfaithful. <i>Nature Ecology and Evolution</i> , 2019, 3, 1172-1183.	7.8	82
34	The spatial scaling of species interaction networks. <i>Nature Ecology and Evolution</i> , 2018, 2, 782-790.	7.8	77
35	Measuring resilience is essential to understand it. <i>Nature Sustainability</i> , 2019, 2, 895-897.	23.7	76
36	Planetary Boundaries for Biodiversity: Implausible Science, Pernicious Policies. <i>Trends in Ecology and Evolution</i> , 2018, 33, 71-73.	8.7	75

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37	Warming increases the proportion of primary production emitted as methane from freshwater mesocosms. <i>Global Change Biology</i> , 2011, 17, 1225-1234.	9.5	68
38	Climate change impacts on body size and food web structure on mountain ecosystems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 3050-3057.	4.0	68
39	The Temperature Dependence of the Carbon Cycle in Aquatic Ecosystems. <i>Advances in Ecological Research</i> , 2010, 43, 267-313.	2.7	63
40	The architecture of mutualistic networks as an evolutionary spandrel. <i>Nature Ecology and Evolution</i> , 2018, 2, 94-99.	7.8	63
41	The effects of space and diversity of interaction types on the stability of complex ecological networks. <i>Theoretical Ecology</i> , 2016, 9, 3-13.	1.0	50
42	Invasions cause biodiversity loss and community simplification in vertebrate food webs. <i>Oikos</i> , 2014, 123, 721-728.	2.7	47
43	Reciprocal specialization in ecological networks. <i>Ecology Letters</i> , 2009, 12, 961-969.	6.4	42
44	Uncovering the drivers of host-associated microbiota with joint species distribution modelling. <i>Molecular Ecology</i> , 2018, 27, 2714-2724.	3.9	36
45	Simple model of recovery dynamics after mass extinction. <i>Journal of Theoretical Biology</i> , 2010, 267, 193-200.	1.7	35
46	Ecological network complexity scales with area. <i>Nature Ecology and Evolution</i> , 2022, 6, 307-314.	7.8	35
47	Specificity and temporal dynamics of complex bacteria-sponge symbiotic interactions. <i>Ecology</i> , 2013, 94, 2781-2791.	3.2	33
48	The stability of multitrophic communities under habitat loss. <i>Nature Communications</i> , 2019, 10, 2322.	12.8	33
49	Trophic cascades in 3D: network analysis reveals how apex predators structure ecosystems. <i>Methods in Ecology and Evolution</i> , 2017, 8, 135-142.	5.2	30
50	Spatial analyses of multi-trophic terrestrial vertebrate assemblages in Europe. <i>Global Ecology and Biogeography</i> , 2019, 28, 1636-1648.	5.8	27
51	The geographical variation of network structure is scale dependent: understanding the biotic specialization of host-parasitoid networks. <i>Ecography</i> , 2019, 42, 1175-1187.	4.5	25
52	Phytoplankton biodiversity is more important for ecosystem functioning in highly variable thermal environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	23
53	Temperature variability alters the stability and thresholds for collapse of interacting species. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190457.	4.0	20
54	BODY SIZE, INTERACTION STRENGTH, AND FOOD WEB DYNAMICS. , 2005, , 167-178.		18

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55	Warming indirectly increases invasion success in food webs. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20202622.	2.6	18
56	Competition and introduction regime shape exotic bird communities in Hawaii. <i>Biological Invasions</i> , 2005, 7, 297-307.	2.4	17
57	Why a Planetary Boundary, If It Is Not Planetary, and the Boundary Is Undefined? A Reply to Rockström et al.. <i>Trends in Ecology and Evolution</i> , 2018, 33, 234.	8.7	16
58	Eco-evolutionary consequences of habitat warming and fragmentation in communities. <i>Biological Reviews</i> , 2021, 96, 1933-1950.	10.4	16
59	Theory of temperature-dependent consumer-resource interactions. <i>Ecology Letters</i> , 2021, 24, 1539-1555.	6.4	16
60	Intraspecific diversity loss in a predator species alters prey community structure and ecosystem functions. <i>PLoS Biology</i> , 2021, 19, e3001145.	5.6	15
61	Macroecological patterns and niche structure in a new marine food web. <i>Open Life Sciences</i> , 2008, 3, 91-103.	1.4	14
62	Perturbations and indirect effects in complex food webs. , 2005, , 369-380.		14
63	Assessing the strength and sensitivity of the core microbiota approach on a highly diverse sponge reef. <i>Environmental Microbiology</i> , 2020, 22, 3985-3999.	3.8	12
64	The spatial scaling of food web structure across European biogeographical regions. <i>Ecography</i> , 2021, 44, 653-664.	4.5	10
65	Water diversion and pollution interactively shape freshwater food webs through bottom-up mechanisms. <i>Global Change Biology</i> , 2022, 28, 859-876.	9.5	9
66	Ecological Networks: Information Theory Meets Darwin's Entangled Bank. <i>Current Biology</i> , 2007, 17, R128-R130.	3.9	7
67	Preface. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 2011-2011.	4.0	6
68	Integrating Species Interaction Networks and Biogeography. , 0, , 289-304.		6
69	The impact of climate warming on species diversity across scales: Lessons from experimental meta-ecosystems. <i>Global Ecology and Biogeography</i> , 2021, 30, 1545-1554.	5.8	6
70	BODY SIZE DETERMINANTS OF THE STRUCTURE AND DYNAMICS OF ECOLOGICAL NETWORKS. , 2005, , 179-197.		6
71	Ecology: Dynamics of Indirect Extinction. <i>Current Biology</i> , 2015, 25, R1129-R1131.	3.9	4
72	Evolutionary studies: Evolution within food webs: the possible and the actual. <i>Heredity</i> , 2007, 99, 477-478.	2.6	3

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73	Stoichiometric constraints modulate temperature and nutrient effects on biomass distribution and community stability. <i>Oikos</i> , 2022, 2022, .	2.7	3
74	Reply to: Empirical pressure-response relations can benefit assessment of safe operating spaces. <i>Nature Ecology and Evolution</i> , 2021, 5, 1080-1081.	7.8	1