Jose M Montoya

List of Publications by Year
in descending order

74 papers	11,090 citations	70961 41 h-index	85405 71 g-index
84 all docs	84 docs citations	84 times ranked	13349 citing authors

#	Article	IF	Citations
1	Ecological networks and their fragility. Nature, 2006, 442, 259-264.	13.7	1,064
2	Body size in ecological networks. Trends in Ecology and Evolution, 2005, 20, 402-409.	4.2	931
3	Review: Ecological networks â€“ beyond food webs. Journal of Animal Ecology, 2009, 78, 253-269.	1.3	765
4	Diversity, structure and convergent evolution of the global sponge microbiome. Nature Communications, 2016, 7, 11870.	5.8	594
5	Interaction strengths in food webs: issues and opportunities. Journal of Animal Ecology, 2004, 73, 585-598.	1.3	557
6	Small World Patterns in Food Webs. Journal of Theoretical Biology, 2002, 214, 405-412.	0.8	509
7	Emerging horizons in biodiversity and ecosystem functioning research. Trends in Ecology and Evolution, 2009, 24, 505-514.	4.2	486
8	Navigating the complexity of ecological stability. Ecology Letters, 2016, 19, 1172-1185.	3.0	401
9	Reconciling the temperature dependence of respiration across timescales and ecosystem types. Nature, 2012, 487, 472-476.	13.7	369
10	Towards novel approaches to modelling biotic interactions in multispecies assemblages at large spatial extents. Journal of Biogeography, 2012, 39, 2163-2178.	1.4	340
11	Warming alters the metabolic balance of ecosystems. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 2117-2126.	1.8	322
12	On the dimensionality of ecological stability. Ecology Letters, 2013, 16, 421-429.	3.0	315
13	Warming alters the size spectrum and shifts the distribution of biomass in freshwater ecosystems. Global Change Biology, 2011, 17, 1681-1694.	4.2	295
14	Scalingâ€up biodiversityâ€ecosystem functioning research. Ecology Letters, 2020, 23, 757-776.	3.0	270
15	Climate change, biotic interactions and ecosystem services. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 2013-2018.	1.8	241
16	The sponge microbiome project. GigaScience, 2017, 6, 1-7.	3.3	193
17	Warming effects on marine microbial food web processes: how far can we go when it comes to predictions?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 2137-2149.	1.8	192
18	Evaluating the core microbiota in complex communities: A systematic investigation. Environmental Microbiology, 2017, 19, 1450-1462.	1.8	187

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19	Novel communities from climate change. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 2913-2922.	1.8	165
20	Topological properties of food webs: from real data to community assembly models. Oikos, 2003, 102, 614-622.	1.2	154
21	Climate change in size-structured ecosystems. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 2903-2912.	1.8	153
22	Thresholds for ecological responses to global change do not emerge from empirical data. Nature Ecology and Evolution, 2020, 4, 1502-1509.	3.4	151
23	Warming alters community size structure and ecosystem functioning. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 3011-3019.	1.2	148
24	Selection, tinkering, and emergence in complex networks. Complexity, 2002, 8, 20-33.	0.9	146
25	Press perturbations and indirect effects in real food webs. Ecology, 2009, 90, 2426-2433.	1.5	136
26	Five Years of Experimental Warming Increases the Biodiversity and Productivity of Phytoplankton. PLoS Biology, 2015, 13, e1002324.	2.6	111
27	Ecological Networks in a Changing Climate. Advances in Ecological Research, 2010, , 71-138.	1.4	110
28	Biodiversity as insurance: from concept to measurement and application. Biological Reviews, 2021, 96, 2333-2354.	4.7	101
29	Food web complexity and higher-level ecosystem services. Ecology Letters, 2003, 6, 587-593.	3.0	100
30	Phytoplankton functional diversity increases ecosystem productivity and stability. Ecological Modelling, 2017, 361, 184-196.	1.2	98
31	Modularity and predicted functions of the global sponge-microbiome network. Nature Communications, 2019, 10, 992.	5.8	94
32	Recovery after mass extinction: evolutionary assembly in largeâ€“scale biosphere dynamics. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 697-707.	1.8	87
33	Vertical transmission of sponge microbiota is inconsistent and unfaithful. Nature Ecology and Evolution, 2019, 3, 1172-1183.	3.4	82
34	The spatial scaling of species interaction networks. Nature Ecology and Evolution, 2018, 2, 782-790.	3.4	77
35	Measuring resilience is essential to understand it. Nature Sustainability, 2019, 2, 895-897.	11.5	76
36	Planetary Boundaries for Biodiversity: Implausible Science, Pernicious Policies. Trends in Ecology and Evolution, 2018, 33, 71-73.	4.2	75

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37	Warming increases the proportion of primary production emitted as methane from freshwater mesocosms. Global Change Biology, 2011, 17, 1225-1234.	4.2	68
38	Climate change impacts on body size and food web structure on mountain ecosystems. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 3050-3057.	1.8	68
39	The Temperature Dependence of the Carbon Cycle in Aquatic Ecosystems. Advances in Ecological Research, 2010, 43, 267-313.	1.4	63
40	The architecture of mutualistic networks as an evolutionary spandrel. Nature Ecology and Evolution, 2018, 2, 94-99.	3.4	63
41	The effects of space and diversity of interaction types on the stability of complex ecological networks. Theoretical Ecology, 2016, 9, 3-13.	0.4	50
42	Invasions cause biodiversity loss and community simplification in vertebrate food webs. Oikos, 2014, 123, 721-728.	1.2	47
43	Reciprocal specialization in ecological networks. Ecology Letters, 2009, 12, 961-969.	3.0	42
44	Uncovering the drivers of hostâ€associated microbiota with joint species distribution modelling. Molecular Ecology, 2018, 27, 2714-2724.	2.0	36
45	Simple model of recovery dynamics after mass extinction. Journal of Theoretical Biology, 2010, 267, 193-200.	0.8	35
46	Ecological network complexity scales with area. Nature Ecology and Evolution, 2022, 6, 307-314.	3.4	35
47	Specificity and temporal dynamics of complex bacteriaâ€“sponge symbiotic interactions. Ecology, 2013, 94, 2781-2791.	1.5	33
48	The stability of multitrophic communities under habitat loss. Nature Communications, 2019, 10, 2322.	5.8	33
49	Trophic cascades in 3D: network analysis reveals how apex predators structure ecosystems. Methods in Ecology and Evolution, 2017, 8, 135-142.	2.2	30
50	Spatial analyses of multiâ€trophic terrestrial vertebrate assemblages in Europe. Global Ecology and Biogeography, 2019, 28, 1636-1648.	2.7	27
51	The geographical variation of network structure is scale dependent: understanding the biotic specialization of hostâ€“parasitoid networks. Ecography, 2019, 42, 1175-1187.	2.1	25
52	Phytoplankton biodiversity is more important for ecosystem functioning in highly variable thermal environments. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	23
53	Temperature variability alters the stability and thresholds for collapse of interacting species. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190457.	1.8	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. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20202622.	1.2	18
56	Competition and introduction regime shape exotic bird communities in Hawaii. Biological Invasions, 2005, 7, 297-307.	1.2	17
57	Why a Planetary Boundary, If It Is Not Planetary, and the Boundary Is Undefined? A Reply to RockstrÃ¶m et al.. Trends in Ecology and Evolution, 2018, 33, 234.	4.2	16
58	Ecoâ€evolutionary consequences of habitat warming and fragmentation in communities. Biological Reviews, 2021, 96, 1933-1950.	4.7	16
59	Theory of temperatureâ€dependent consumerâ€“resource interactions. Ecology Letters, 2021, 24, 1539-1555.	3.0	16
60	Intraspecific diversity loss in a predator species alters prey community structure and ecosystem functions. PLoS Biology, 2021, 19, e3001145.	2.6	15
61	Macroecological patterns and niche structure in a new marine food web. Open Life Sciences, 2008, 3, 91-103.	0.6	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. Environmental Microbiology, 2020, 22, 3985-3999.	1.8	12
64	The spatial scaling of food web structure across European biogeographical regions. Ecography, 2021, 44, 653-664.	2.1	10
65	Water diversion and pollution interactively shape freshwater food webs through bottomâ€up mechanisms. Global Change Biology, 2022, 28, 859-876.	4.2	9
66	Ecological Networks: Information Theory Meets Darwin's Entangled Bank. Current Biology, 2007, 17, R128-R130.	1.8	7
67	Preface. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 2011-2011.	1.8	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 metaâ€ecosystems. Global Ecology and Biogeography, 2021, 30, 1545-1554.	2.7	6
70	BODY SIZE DETERMINANTS OF THE STRUCTURE AND DYNAMICS OF ECOLOGICAL NETWORKS. , 2005, , 179-197.		6
71	Ecology: Dynamics of Indirect Extinction. Current Biology, 2015, 25, R1129-R1131.	1.8	4
72	Evolutionary studies: Evolution within food webs: the possible and the actual. Heredity, 2007, 99, 477-478.	1.2	3

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73	Stoichiometric constraints modulate temperature and nutrient effects on biomass distribution and community stability. Oikos, 2022, 2022, .	1.2	3
74	Reply to: Empirical pressure-response relations can benefit assessment of safe operating spaces. Nature Ecology and Evolution, 2021, 5, 1080-1081.	3.4	1