

# Mary I O'connor

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

14,022  
citations

71102

41  
h-index

88630

70  
g-index

80  
all docs

80  
docs citations

80  
times ranked

19513  
citing authors

#	ARTICLE	IF	CITATIONS
1	A global synthesis reveals biodiversity loss as a major driver of ecosystem change. <i>Nature</i> , 2012, 486, 105-108.	27.8	1,750
2	Global imprint of climate change on marine life. <i>Nature Climate Change</i> , 2013, 3, 919-925.	18.8	1,602
3	The Pace of Shifting Climate in Marine and Terrestrial Ecosystems. <i>Science</i> , 2011, 334, 652-655.	12.6	1,062
4	The functional role of producer diversity in ecosystems. <i>American Journal of Botany</i> , 2011, 98, 572-592.	1.7	991
5	Function and functional redundancy in microbial systems. <i>Nature Ecology and Evolution</i> , 2018, 2, 936-943.	7.8	912
6	Temperature control of larval dispersal and the implications for marine ecology, evolution, and conservation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 1266-1271.	7.1	749
7	Increased temperature variation poses a greater risk to species than climate warming. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20132612.	2.6	674
8	Linking the influence and dependence of people on biodiversity across scales. <i>Nature</i> , 2017, 546, 65-72.	27.8	474
9	Geographical limits to species-range shifts are suggested by climate velocity. <i>Nature</i> , 2014, 507, 492-495.	27.8	436
10	Sustainability and Global Seafood. <i>Science</i> , 2010, 327, 784-786.	12.6	388
11	Warming and Resource Availability Shift Food Web Structure and Metabolism. <i>PLoS Biology</i> , 2009, 7, e1000178.	5.6	377
12	Community ecology in a warming world: The influence of temperature on interspecific interactions in marine systems. <i>Journal of Experimental Marine Biology and Ecology</i> , 2011, 400, 218-226.	1.5	361
13	Warming strengthens an herbivore-plant interaction. <i>Ecology</i> , 2009, 90, 388-398.	3.2	293
14	Linking Biodiversity and Ecosystem Services: Current Uncertainties and the Necessary Next Steps. <i>BioScience</i> , 2014, 64, 49-57.	4.9	285
15	A bioenergetic framework for the temperature dependence of trophic interactions. <i>Ecology Letters</i> , 2014, 17, 902-914.	6.4	268
16	Cascading effects of predator diversity and omnivory in a marine food web. <i>Ecology Letters</i> , 2005, 8, 1048-1056.	6.4	238
17	Estimating local biodiversity change: a critique of papers claiming no net loss of local diversity. <i>Ecology</i> , 2016, 97, 1949-1960.	3.2	224
18	Energy Flux: The Link between Multitrophic Biodiversity and Ecosystem Functioning. <i>Trends in Ecology and Evolution</i> , 2018, 33, 186-197.	8.7	195

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19	Biodiversity mediates top-down control in eelgrass ecosystems: a global comparative experimental approach. <i>Ecology Letters</i> , 2015, 18, 696-705.	6.4	188
20	Theoretical Predictions for How Temperature Affects the Dynamics of Interacting Herbivores and Plants. <i>American Naturalist</i> , 2011, 178, 626-638.	2.1	162
21	Ecological and methodological drivers of species distribution and phenology responses to climate change. <i>Global Change Biology</i> , 2016, 22, 1548-1560.	9.5	162
22	Species richness change across spatial scales. <i>Oikos</i> , 2019, 128, 1079-1091.	2.7	160
23	Blue Carbon Storage Capacity of Temperate Eelgrass ( <i>Zostera marina</i> ) Meadows. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1457-1475.	4.9	130
24	Recent Trends in Local-Scale Marine Biodiversity Reflect Community Structure and Human Impacts. <i>Current Biology</i> , 2015, 25, 1938-1943.	3.9	121
25	A general biodiversity-function relationship is mediated by trophic level. <i>Oikos</i> , 2017, 126, 18-31.	2.7	112
26	The Body Size Dependence of Trophic Cascades. <i>American Naturalist</i> , 2015, 185, 354-366.	2.1	110
27	Nonlinear averaging of thermal experience predicts population growth rates in a thermally variable environment. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181076.	2.6	92
28	Metabolic Theory and the Temperature-Size Rule Explain the Temperature Dependence of Population Carrying Capacity. <i>American Naturalist</i> , 2018, 192, 687-697.	2.1	88
29	The strength of the biodiversity-ecosystem function relationship depends on spatial scale. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180038.	2.6	82
30	Advances in global change research require open science by individual researchers. <i>Global Change Biology</i> , 2012, 18, 2102-2110.	9.5	81
31	Life in fluctuating environments. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190454.	4.0	81
32	Towards a multi-trophic extension of metacommunity ecology. <i>Ecology Letters</i> , 2019, 22, 19-33.	6.4	79
33	Climate change impacts on connectivity in the ocean: Implications for conservation. <i>Ecosphere</i> , 2014, 5, 1-18.	2.2	77
34	Toward a conceptual synthesis for climate change responses. <i>Global Ecology and Biogeography</i> , 2012, 21, 693-703.	5.8	74
35	Exploring the role of temperature in the ocean through metabolic scaling. <i>Ecology</i> , 2015, 96, 3126-3140.	3.2	71
36	Latitude, temperature, and habitat complexity predict predation pressure in eelgrass beds across the Northern Hemisphere. <i>Ecology</i> , 2018, 99, 29-35.	3.2	70

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37	Climate change and marine life. <i>Biology Letters</i> , 2012, 8, 907-909.	2.3	60
38	Does fish larval dispersal differ between high and low latitudes?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130327.	2.6	60
39	Opportunities for behavioral rescue under rapid environmental change. <i>Global Change Biology</i> , 2019, 25, 3110-3120.	9.5	53
40	Expert perspectives on global biodiversity loss and its drivers and impacts on people. <i>Frontiers in Ecology and the Environment</i> , 2023, 21, 94-103.	4.0	49
41	Moving beyond the fished or farmed dichotomy. <i>Marine Policy</i> , 2013, 38, 369-374.	3.2	48
42	Strengthening confidence in climate change impact science. <i>Global Ecology and Biogeography</i> , 2015, 24, 64-76.	5.8	45
43	Anthropogenic disturbance homogenizes seagrass fish communities. <i>Global Change Biology</i> , 2018, 24, 1904-1918.	9.5	44
44	Aquatic biodiversity enhances multiple nutritional benefits to humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	44
45	Predator richness has no effect in a diverse marine food web. <i>Journal of Animal Ecology</i> , 2009, 78, 732-740.	2.8	40
46	Consumer-plant interaction strength: importance of body size, density and metabolic biomass. <i>Oikos</i> , 2015, 124, 1274-1281.	2.7	30
47	Warming-Induced Changes to Body Size Stabilize Consumer-Resource Dynamics. <i>American Naturalist</i> , 2017, 189, 718-725.	2.1	29
48	Epifaunal diversity patterns within and among seagrass meadows suggest landscape-scale biodiversity processes. <i>Ecosphere</i> , 2018, 9, e02490.	2.2	28
49	From coast to coast to coast: ecology and management of seagrass ecosystems across Canada. <i>Facets</i> , 2021, 6, 139-179.	2.4	28
50	Prior heat accumulation reduces survival during subsequent experimental heat waves. <i>Journal of Experimental Marine Biology and Ecology</i> , 2018, 501, 109-117.	1.5	27
51	Top-down control by great blue herons ( <i>Ardea herodias</i> ) regulates seagrass-associated epifauna. <i>Oikos</i> , 2015, 124, 1492-1501.	2.7	22
52	Indirect effects of predators control herbivore richness and abundance in a benthic eelgrass ( <i>Zostera marina</i> ) mesograzer community. <i>Journal of Animal Ecology</i> , 2015, 84, 1092-1102.	2.8	18
53	Do not downplay biodiversity loss. <i>Nature</i> , 2022, 601, E27-E28.	27.8	17
54	Trophic interactions modify the temperature dependence of community biomass and ecosystem function. <i>PLoS Biology</i> , 2019, 17, e2006806.	5.6	15

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55	Climate change and species interactions: beyond local communities. <i>Annals of the New York Academy of Sciences</i> , 2013, 1297, 98-111.	3.8	13
56	An Empiricist's Guide to Using Ecological Theory. <i>American Naturalist</i> , 2022, 199, 1-20.	2.1	13
57	The metabolic theory of ecology and the cost of parasitism. <i>PLoS Biology</i> , 2018, 16, e2005628.	5.6	12
58	Host-Specificity and Core Taxa of Seagrass Leaf Microbiome Identified Across Tissue Age and Geographical Regions. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	2.2	12
59	Microeukaryotic Communities Associated With the Seagrass <i>Zostera marina</i> Are Spatially Structured. <i>Journal of Eukaryotic Microbiology</i> , 2021, 68, e12827.	1.7	12
60	Salt marsh stabilization affects algal primary producers at the marsh edge. <i>Wetlands Ecology and Management</i> , 2011, 19, 131-140.	1.5	11
61	Wildcards in climate change biology. <i>Ecological Monographs</i> , 2021, 91, e01471.	5.4	9
62	The biogeography of community assembly: latitude and predation drive variation in community trait distribution in a guild of epifaunal crustaceans. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20211762.	2.6	9
63	Grand challenges in biodiversity—ecosystem functioning research in the era of science—policy platforms require explicit consideration of feedbacks. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210783.	2.6	8
64	Form—function relationships in a marine foundation species depend on scale: a shoot to global perspective from a distributed ecological experiment. <i>Oikos</i> , 2018, 127, 364-374.	2.7	7
65	A reciprocal transplant experiment sheds new light on a classic marine seagrass-algal symbiosis and suggests influence of epiphytic symbiont on seagrass microbiota. <i>Aquatic Botany</i> , 2022, 179, 103511.	1.6	7
66	American Pikas' ( <i>Ochotona princeps</i> ) Foraging Response to Hikers and Sensitivity to Heat in an Alpine Environment. <i>Arctic, Antarctic, and Alpine Research</i> , 2015, 47, 519-527.	1.1	6
67	A comparison of epifaunal invertebrate communities in native eelgrass <i>Zostera marina</i> and non-native <i>Zostera japonica</i> at Tsawwassen, BC. <i>Marine Biology Research</i> , 2015, 11, 564-571.	0.7	5
68	Ecological Synthesis and Its Role in Advancing Knowledge. <i>BioScience</i> , 0, , .	4.9	4
69	A Biophysical Model and Network Analysis of Invertebrate Community Dispersal Reveals Regional Patterns of Seagrass Habitat Connectivity. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	4
70	Heat Wave Intensity Drives Sublethal Reproductive Costs in a Tidepool Copepod. <i>Integrative Organismal Biology</i> , 2022, 4, obac005.	1.8	4
71	Invasive Species Unchecked by Climate—Response. <i>Science</i> , 2012, 335, 538-539.	12.6	3