

Ian Donohue

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

3,801
citations

172457

29
h-index

138484

58
g-index

75
all docs

75
docs citations

75
times ranked

5119
citing authors

#	ARTICLE	IF	CITATIONS
1	Navigating the complexity of ecological stability. <i>Ecology Letters</i> , 2016, 19, 1172-1185.	6.4	401
2	On the dimensionality of ecological stability. <i>Ecology Letters</i> , 2013, 16, 421-429.	6.4	315
3	Population-Level Metrics of Trophic Structure Based on Stable Isotopes and Their Application to Invasion Ecology. <i>PLoS ONE</i> , 2012, 7, e31757.	2.5	297
4	Ecology and mode-of-life explain lifespan variation in birds and mammals. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140298.	2.6	209
5	Nutrient enrichment homogenizes lake benthic assemblages at local and regional scales. <i>Ecology</i> , 2009, 90, 3470-3477.	3.2	158
6	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
7	Advancing our understanding of ecological stability. <i>Ecology Letters</i> , 2019, 22, 1349-1356.	6.4	147
8	Linking catchment characteristics and water chemistry with the ecological status of Irish rivers. <i>Water Research</i> , 2006, 40, 91-98.	11.3	126
9	Impacts of increased sediment loads on the ecology of lakes. <i>Biological Reviews</i> , 2009, 84, 517-531.	10.4	124
10	Integrating the underlying structure of stochasticity into community ecology. <i>Ecology</i> , 2020, 101, e02922.	3.2	113
11	Water-level fluctuations regulate the structure and functioning of natural lakes. <i>Freshwater Biology</i> , 2016, 61, 251-264.	2.4	102
12	Going beyond Gross Domestic Product as an indicator to bring coherence to the Sustainable Development Goals. <i>Journal of Cleaner Production</i> , 2020, 248, 119232.	9.3	83
13	Measuring resilience is essential to understand it. <i>Nature Sustainability</i> , 2019, 2, 895-897.	23.7	76
14	Planetary Boundaries for Biodiversity: Implausible Science, Pernicious Policies. <i>Trends in Ecology and Evolution</i> , 2018, 33, 71-73.	8.7	75
15	Importance of spatial and temporal patterns for assessment of risk of diffuse nutrient emissions to surface waters. <i>Journal of Hydrology</i> , 2005, 304, 183-192.	5.4	65
16	Assessment of eutrophication pressure on lakes using littoral invertebrates. <i>Hydrobiologia</i> , 2009, 633, 105-122.	2.0	57
17	Loss of predator species, not intermediate consumers, triggers rapid and dramatic extinction cascades. <i>Global Change Biology</i> , 2017, 23, 2962-2972.	9.5	54
18	Environmental context determines multi-trophic effects of consumer species loss. <i>Global Change Biology</i> , 2013, 19, 431-440.	9.5	52

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19	Distinguishing between direct and indirect effects of predators in complex ecosystems. <i>Journal of Animal Ecology</i> , 2013, 82, 438-448.	2.8	50
20	Individual species provide multifaceted contributions to the stability of ecosystems. <i>Nature Ecology and Evolution</i> , 2020, 4, 1594-1601.	7.8	48
21	Interactions among temporal patterns determine the effects of multiple stressors. <i>Ecological Applications</i> , 2010, 20, 1794-1800.	3.8	46
22	Dietary niche constriction when invaders meet natives: evidence from freshwater decapods. <i>Journal of Animal Ecology</i> , 2016, 85, 1098-1107.	2.8	42
23	Nutrient optima and tolerances of benthic invertebrates, the effects of taxonomic resolution and testing of selected metrics in lakes using an extensive European data base. <i>Aquatic Ecology</i> , 2008, 42, 277-291.	1.5	41
24	Quantifying ecological responses to amplified water level fluctuations in standing waters: an experimental approach. <i>Journal of Applied Ecology</i> , 2014, 51, 1282-1291.	4.0	39
25	Fertilized graminoids intensify negative drought effects on grassland productivity. <i>Global Change Biology</i> , 2021, 27, 2441-2457.	9.5	39
26	Enhance environmental policy coherence to meet the Sustainable Development Goals. <i>Journal of Cleaner Production</i> , 2021, 296, 126502.	9.3	38
27	Effects of sediment particle size composition on survivorship of benthic invertebrates from Lake Tanganyika, Africa. <i>Archiv für Hydrobiologie</i> , 2003, 157, 131-144.	1.1	36
28	Temporal variability within disturbance events regulates their effects on natural communities. <i>Oecologia</i> , 2011, 166, 795-806.	2.0	36
29	Utility of acoustic indices for ecological monitoring in complex sonic environments. <i>Ecological Indicators</i> , 2021, 121, 107114.	6.3	36
30	The predictability of ecological stability in a noisy world. <i>Nature Ecology and Evolution</i> , 2019, 3, 251-259.	7.8	35
31	Nutrients cause grassland biomass to outpace herbivory. <i>Nature Communications</i> , 2020, 11, 6036.	12.8	35
32	General statistical scaling laws for stability in ecological systems. <i>Ecology Letters</i> , 2021, 24, 1474-1486.	6.4	32
33	Differential contribution of concentration and exposure time to sediment dose effects on stream biota. <i>Journal of the North American Benthological Society</i> , 2009, 28, 110-121.	3.1	31
34	Nutrient enrichment alters the consequences of species loss. <i>Journal of Ecology</i> , 2015, 103, 862-870.	4.0	30
35	Soil properties as key predictors of global grassland production: Have we overlooked micronutrients?. <i>Ecology Letters</i> , 2021, 24, 2713-2725.	6.4	28
36	In situ experiments on the effects of increased sediment loads on littoral rocky shore communities in Lake Tanganyika, East Africa. <i>Freshwater Biology</i> , 2003, 48, 1603-1616.	2.4	26

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37	Seasonal patterns of sediment loading and benthic invertebrate community dynamics in Lake Tanganyika, Africa. <i>Freshwater Biology</i> , 2004, 49, 320-331.	2.4	25
38	Temporal variability of a single population can determine the vulnerability of communities to perturbations. <i>Journal of Ecology</i> , 2016, 104, 887-897.	4.0	23
39	Quantifying variability within water samples: The need for adequate subsampling. <i>Water Research</i> , 2008, 42, 476-482.	11.3	22
40	210Pb-dating of a lake sediment core from Lough Carra (Co. Mayo, western Ireland): use of paleolimnological data for chronology validation below the 210Pb dating horizon. <i>Journal of Environmental Radioactivity</i> , 2011, 102, 495-499.	1.7	22
41	Importance of consumers on exposed and sheltered rocky shores. <i>Marine Ecology - Progress Series</i> , 2011, 443, 65-75.	1.9	22
42	Warming can enhance invasion success through asymmetries in energetic performance. <i>Journal of Animal Ecology</i> , 2016, 85, 419-426.	2.8	21
43	Herbivory enables marine communities to resist warming. <i>Science Advances</i> , 2017, 3, e1701349.	10.3	21
44	Nitrogen retention in a river system and the effects of river morphology and lakes. <i>Water Science and Technology</i> , 2005, 51, 19-29.	2.5	20
45	Endothermy makes fishes faster but does not expand their thermal niche. <i>Functional Ecology</i> , 2021, 35, 1951-1959.	3.6	20
46	Universal scaling of robustness of ecosystem services to species loss. <i>Nature Communications</i> , 2021, 12, 5167.	12.8	19
47	Alternate patterns of temperature variation bring about very different disease outcomes at different mean temperatures. <i>ELife</i> , 2022, 11, .	6.0	19
48	Importance of Long-Term Cycles for Predicting Water Level Dynamics in Natural Lakes. <i>PLoS ONE</i> , 2015, 10, e0119253.	2.5	18
49	Combined effects of warming and nutrients on marine communities are moderated by predators and vary across functional groups. <i>Global Change Biology</i> , 2018, 24, 5853-5866.	9.5	18
50	Predators mitigate the destabilising effects of heatwaves on multitrophic stream communities. <i>Global Change Biology</i> , 2022, 28, 403-416.	9.5	18
51	Nutrients and herbivores impact grassland stability across spatial scales through different pathways. <i>Global Change Biology</i> , 2022, 28, 2678-2688.	9.5	18
52	Rapid ecosystem recovery from diffuse pollution after the Great Irish Famine. <i>Ecological Applications</i> , 2010, 20, 1733-1743.	3.8	16
53	A trophic interaction framework for identifying the invasive capacity of novel organisms. <i>Methods in Ecology and Evolution</i> , 2017, 8, 1786-1794.	5.2	16
54	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

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55	Coping with multiple enemies: pairwise interactions do not predict evolutionary change in complex multitrophic communities. <i>Oikos</i> , 2019, 128, 1588-1599.	2.7	16
56	Linking soil phosphorus to water quality in the Mask catchment of western Ireland through the analysis of moist soil samples. <i>Agriculture, Ecosystems and Environment</i> , 2006, 112, 300-312.	5.3	15
57	Single gene locus changes perturb complex microbial communities as much as apex predator loss. <i>Nature Communications</i> , 2015, 6, 8235.	12.8	15
58	Oil extraction imperils Africa's Great Lakes. <i>Science</i> , 2016, 354, 561-562.	12.6	15
59	Land use, sediment loads and dispersal pathways from two catchments at the southern end of Lake Tanganyika, Africa: implications for lake management. <i>Environmental Geology</i> , 2003, 44, 448-455.	1.2	14
60	Ecosystem-level effects of a globally spreading invertebrate invader are not moderated by a functionally similar native. <i>Journal of Animal Ecology</i> , 2015, 84, 1628-1636.	2.8	14
61	Downscaling the non-stationary effect of climate forcing on local-scale dynamics: the importance of environmental filters. <i>Climatic Change</i> , 2014, 124, 333-346.	3.6	13
62	Field evidence for stoichiometric relationships between zooplankton and N and P availability in a shallow calcareous lake. <i>Freshwater Biology</i> , 2006, 51, 1589-1604.	2.4	12
63	Elevated temperatures interact with habitat quality to undermine survival of ectotherms in climatic refugia. <i>Diversity and Distributions</i> , 2015, 21, 200-210.	4.1	12
64	Using sediments to assess the resistance of a calcareous lake to diffuse nutrient loading. <i>Archiv für Hydrobiologie</i> , 2005, 164, 109-125.	1.1	10
65	Size-specific effects of increased sediment loads on gastropod communities in Lake Tanganyika, Africa. <i>Hydrobiologia</i> , 2004, 522, 337-342.	2.0	9
66	Opposing community assembly patterns for dominant and nondominant plant species in herbaceous ecosystems globally. <i>Ecology and Evolution</i> , 2021, 11, 17744-17761.	1.9	8
67	Integrating multiple dimensions of ecological stability into a vulnerability framework. <i>Journal of Ecology</i> , 2022, 110, 374-386.	4.0	7
68	Infection with behaviour-manipulating parasites enhances bioturbation by key aquatic detritivores. <i>Parasitology</i> , 2019, 146, 1528-1531.	1.5	6
69	Life history timing, but not body size, of <i>Mysis salemaai</i> (Crustacea: Mysida) conserved across a trophic gradient at its southern distribution. <i>Hydrobiologia</i> , 2016, 775, 83-95.	2.0	2
70	Temporally variable niche overlap and competitive potential of an introduced and a native mysid shrimp. <i>Hydrobiologia</i> , 2018, 823, 109-119.	2.0	2
71	Warming can alter host behavior in a similar manner to infection with behavior-manipulating parasites. <i>Oecologia</i> , 2020, 194, 65-74.	2.0	1
72	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