Kevin S Mccann

List of Publications by Year
in descending order

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88 papers	10,029 citations	87888 38 h-index	51608 86 g-index
106 all docs	106 docs citations	106 times ranked	10342 citing authors

#	Article	IF	Citations
1	On the Dynamic Nature of Omnivory in a Changing World. BioScience, 2022, 72, 416-430.	4.9	4
2	Ecological network complexity scales with area. Nature Ecology and Evolution, 2022, 6, 307-314.	7.8	35
3	Cascading effects of predators on algal size structure. Journal of Phycology, 2022, 58, 308-317.	2.3	4
4	Riparian buffers maintain aquatic trophic structure in agricultural landscapes. Biology Letters, 2022, 18, 20210598.	2.3	6
5	Nutrient identity modifies the destabilising effects of eutrophication in grasslands. Ecology Letters, 2022, 25, 754-765.	6.4	17
6	Replicating nature's fabric: High information markets and the sustainability of global seafood. Food Webs, 2022, , e00239.	1.2	0
7	Phylogenetic community structure and stable isotope analysis of the parasitoid community associated with Eastern spruce budworm,<i>Choristoneura fumiferana</i>(Lepidoptera: Tortricidae). Agricultural and Forest Entomology, 2022, 24, 476-486.	1.3	0
8	Landscape modification and nutrientâ€driven instability at a distance. Ecology Letters, 2021, 24, 398-414.	6.4	30
9	Letter: Trophic interactions regulate peatland carbon cycling. Ecology Letters, 2021, 24, 781-790.	6.4	10
10	Spatial Fingerprinting: Horizontal Fusion of Multi-Dimensional Bio-Tracers as Solution to Global Food Provenance Problems. Foods, 2021, 10, 717.	4.3	3
11	Parasitoid community responds indiscriminately to fluctuating spruce budworm (Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.8	2
12	Strong nutrient-plant interactions enhance the stability of ecosystems. Communications Biology, 2021, 4, 1202.	4.4	0
13	Fisheries restoration potential: Optimizing fisheries profits while maintaining food web structure. Food Webs, 2020, 25, e00168.	1.2	5
14	Geography and Morphology Affect the Ice Duration Dynamics of Northern Hemisphere Lakes Worldwide. Geophysical Research Letters, 2020, 47, e2020GL087953.	4.0	14
15	Winter in water: differential responses and the maintenance of biodiversity. Ecology Letters, 2020, 23, 922-938.	6.4	64
16	Temperature triggers a nonâ€linear response in resourceâ€"consumer interaction strength. Ecosphere, 2019, 10, e02787.	2.2	10
17	Homogenization of freshwater lakes: Recent compositional shifts in fish communities are explained by gamefish movement and not climate change. Global Change Biology, 2019, 25, 4222-4233.	9.5	16
18	Fish assemblage composition within the floodplain habitat mosaic of a tropical lake (Tonle Sap,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	2.4	7

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19	Consumer trophic positions respond variably to seasonally fluctuating environments. Ecology, 2019, 100, e02570.	3.2	41
20	Food web rewiring in a changing world. Nature Ecology and Evolution, 2019, 3, 345-354.	7.8	200
21	Foodâ€web structure and ecosystem function in the Laurentian Great Lakesâ€"Toward a conceptual model. Freshwater Biology, 2019, 64, 1-23.	2.4	37
22	Context-dependent interactions and the regulation of species richness in freshwater fish. Nature Communications, 2018, 9, 973.	12.8	14
23	Blinded by the light? Nearshore energy pathway coupling and relative predator biomass increase with reduced water transparency across lakes. Oecologia, 2018, 186, 1031-1041.	2.0	22
24	On the prevalence and dynamics of inverted trophic pyramids and otherwise topâ€heavy communities. Ecology Letters, 2018, 21, 439-454.	6.4	92
25	Relative heart size and fish foraging ecology in a lake food web. Canadian Journal of Fisheries and Aquatic Sciences, 2018, 75, 1477-1484.	1.4	1
26	Predicting and Assessing Progress in the Restoration of Ecosystems. Conservation Letters, 2018, 11, e12390.	5.7	16
27	When too much isnâ€™t enough: Does current food production meet global nutritional needs?. PLoS ONE, 2018, 13, e0205683.	2.5	110
28	Potential oscillators and keystone modules in food webs. Ecology Letters, 2018, 21, 1330-1340.	6.4	11
29	Linking humans to food webs: a framework for the classification of global fisheries. Frontiers in Ecology and the Environment, 2018, 16, 412-420.	4.0	12
30	Interaction strength and stability in stageâ€structured food web modules. Oikos, 2018, 127, 1494-1505.	2.7	13
31	Evidence of indiscriminate fishing effects in one of the worldâ€™s largest inland fisheries. Scientific Reports, 2018, 8, 8947.	3.3	84
32	Monitoring and modelling total phosphorus contributions to a freshwater lake with cage-aquaculture. Aquaculture Research, 2017, 48, 283-297.	1.8	4
33	<i>Daphnia</i> inhibits the emergence of spatial pattern in a simple consumerâ€"resource system. Ecology, 2017, 98, 1163-1170.	3.2	6
34	The dynamical implications of human behaviour on a social-ecological harvesting model. Theoretical Ecology, 2017, 10, 341-354.	1.0	15
35	Supply and demand drive a critical transition to dysfunctional fisheries. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12333-12337.	7.1	17
36	Seasonal increases in fish trophic niche plasticity within a floodâ€pulse river ecosystem (Tonle Sap Lake,) Tj ETQq0 0 0 rgBT /Overlock 10	2.2	51

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37	A mechanistic theory for aquatic food chain length. Nature Communications, 2017, 8, 2028.	12.8	39
38	Losing Legacies, Ecological Release, and Transient Responses: Key Challenges for the Future of Northern Ecosystem Science. Ecosystems, 2017, 20, 23-30.	3.4	25
39	Biomass Reallocation between Juveniles and Adults Mediates Food Web Stability by Distributing Energy Away from Strong Interactions. PLoS ONE, 2017, 12, e0170725.	2.5	5
40	Predator Diet and Trophic Position Modified with Altered Habitat Morphology. PLoS ONE, 2016, 11, e0147759.	2.5	42
41	A role for brain size and cognition in food webs. Ecology Letters, 2016, 19, 948-955.	6.4	31
42	The adaptive capacity of lake food webs: from individuals to ecosystems. Ecological Monographs, 2016, 86, 4-19.	5.4	84
43	Introduction to the special issue: theory of food webs. Theoretical Ecology, 2016, 9, 1-2.	1.0	8
44	Consistent role of weak and strong interactions in high- and low-diversity trophic food webs. Nature Communications, 2016, 7, 11180.	12.8	69
45	The duality of stability: towards a stochastic theory of species interactions. Theoretical Ecology, 2016, 9, 477-485.	1.0	16
46	Sampling bias is a challenge for quantifying specialization and network structure: lessons from a quantitative niche model. Oikos, 2016, 125, 502-513.	2.7	157
47	Interaction strength revisitedâ€"clarifying the role of energy flux for food web stability. Theoretical Ecology, 2016, 9, 59-71.	1.0	28
48	Food webs and the sustainability of indiscriminate fisheries. Canadian Journal of Fisheries and Aquatic Sciences, 2016, 73, 656-665.	1.4	55
49	Weak Interactions and Instability Cascades. Scientific Reports, 2015, 5, 12652.	3.3	16
50	<scp>HSS</scp> revisited: multiâ€channel processes mediate trophic control across a productivity gradient. Ecology Letters, 2015, 18, 1190-1197.	6.4	28
51	Food Web Structure in Temporally-Forced Ecosystems. Trends in Ecology and Evolution, 2015, 30, 662-672.	8.7	171
52	The predator-prey power law: Biomass scaling across terrestrial and aquatic biomes. Science, 2015, 349, aac6284.	12.6	235
53	Effects of differential habitat warming on complex communities. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8077-8082.	7.1	81
54	Revising ecological assumptions about Human papillomavirus interactions and type replacement. Journal of Theoretical Biology, 2014, 350, 98-109.	1.7	37

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55	A bioenergetic framework for the temperature dependence of trophic interactions. Ecology Letters, 2014, 17, 902-914.	6.4	268
56	FORUM: Sustaining ecosystem functions in a changing world: a call for an integrated approach. Journal of Applied Ecology, 2013, 50, 1124-1130.	4.0	37
57	Reconciling the Omnivory-Stability Debate. American Naturalist, 2012, 179, 22-37.	2.1	54
58	Integrating food web diversity, structure and stability. Trends in Ecology and Evolution, 2012, 27, 40-46.	8.7	344
59	Food web expansion and contraction in response to changing environmental conditions. Nature Communications, 2012, 3, 1105.	12.8	87
60	Barcoding a Quantified Food Web: Crypsis, Concepts, Ecology and Hypotheses. PLoS ONE, 2011, 6, e14424.	2.5	85
61	An experimental test of a fundamental food web motif. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 1743-1749.	2.6	35
62	Optimal conservation planning for migratory animals: integrating demographic information across seasons. Conservation Letters, 2010, 3, 192-202.	5.7	29
63	The more food webs change, the more they stay the same. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 1789-1801.	4.0	117
64	Lake morphometry predicts the degree of habitat coupling by a mobile predator. Oikos, 2009, 118, 1230-1238.	2.7	84
65	The long-term and transient implications of multiple predators in biocontrol. Theoretical Ecology, 2008, 1, 45-53.	1.0	13
66	A landscape theory for food web architecture. Ecology Letters, 2008, 11, 867-881.	6.4	191
67	Fluctuations in density of an outbreak species drive diversity cascades in food webs. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16976-16981.	7.1	182
68	Protecting biostructure. Nature, 2007, 446, 29-29.	27.8	173
69	Indirect food web effects of Bythotrephes invasion: responses by the rotifer Conochilus in Harp Lake, Canada. Biological Invasions, 2007, 9, 233-243.	2.4	17
70	Epilimnetic rotifer community responses to Bythotrephes longimanus invasion in Canadian Shield lakes. Limnology and Oceanography, 2006, 51, 1004-1012.	3.1	26
71	Structural asymmetry and the stability of diverse food webs. Nature, 2006, 442, 265-269.	27.8	759
72	Simple rules for the coexistence and competitive dominance of plants mediated by mycorrhizal fungi. Ecology Letters, 2005, 8, 247-252.	6.4	48

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73	Effects of Multi-chain Omnivory on the Strength of Trophic Control in Lakes. Ecosystems, 2005, 8, 682-693.	3.4	76
74	Resolution of Respect. Bulletin of the Ecological Society of America, 2005, 86, 203-205.	0.2	18
75	Migration supports uneven consumer control in a sewage-enriched river food web. Journal of Animal Ecology, 2004, 73, 737-746.	2.8	7
76	TOP-DOWN IS BOTTOM-UP: DOES PREDATION IN THE RHIZOSPHERE REGULATE ABOVEGROUND DYNAMICS?. Ecology, 2003, 84, 846-857.	3.2	236
77	Effects of partitioning allochthonous and autochthonous resources on food web stability. Ecological Research, 2002, 17, 419-432.	1.5	117
78	The diversityâ€"stability debate. Nature, 2000, 405, 228-233.	27.8	2,471
79	Exploring stable pattern formation in models of tussock moth populations. Journal of Animal Ecology, 1999, 68, 94-107.	2.8	40
80	A Mathematical Technique for Estimating Blastodisc:Yolk Volume Ratios instead of Egg Sizes. Environmental Biology of Fishes, 1999, 54, 229-234.	1.0	4
81	Weak trophic interactions and the balance of nature. Nature, 1998, 395, 794-798.	27.8	1,338
82	Food Web Stability: The Influence of Trophic Flows across Habitats. American Naturalist, 1998, 152, 460-469.	2.1	325
83	Trophic cascades and trophic trickles in pelagic food webs. Proceedings of the Royal Society B: Biological Sciences, 1998, 265, 205-209.	2.6	69
84	DENSITY-DEPENDENT COEXISTENCE IN FISH COMMUNITIES. Ecology, 1998, 79, 2957-2967.	3.2	31
85	Reâ€"evaluating the omnivoryâ€"stability relationship in food webs. Proceedings of the Royal Society B: Biological Sciences, 1997, 264, 1249-1254.	2.6	328
86	Unexpected spatial patterns in an insect outbreak match a predator diffusion model. Proceedings of the Royal Society B: Biological Sciences, 1997, 264, 1837-1840.	2.6	46
87	Biological Conditions for Chaos in a Three-Species Food Chain. Ecology, 1994, 75, 561-564.	3.2	144
88	Nonlinear Dynamics and Population Disappearances. American Naturalist, 1994, 144, 873-879.	2.1	110