

Richard Williams

List of Publications by Year in descending order

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43
papers

8,220
citations

136950

32
h-index

289244

40
g-index

43
all docs

43
docs citations

43
times ranked

7465
citing authors

#	ARTICLE	IF	CITATIONS
1	Network structure and biodiversity loss in food webs: robustness increases with connectance. Ecology Letters, 2002, 5, 558-567.	6.4	1,344
2	Simple rules yield complex food webs. Nature, 2000, 404, 180-183.	27.8	1,166
3	Food-web structure and network theory: The role of connectance and size. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12917-12922.	7.1	1,117
4	Allometric scaling enhances stability in complex food webs. Ecology Letters, 2006, 9, 1228-1236.	6.4	501
5	Two degrees of separation in complex food webs. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12913-12916.	7.1	324
6	Network structure and robustness of marine food webs. Marine Ecology - Progress Series, 2004, 273, 291-302.	1.9	322
7	More than a meal – integrating non-feeding interactions into food webs. Ecology Letters, 2012, 15, 291-300.	6.4	320
8	Simple prediction of interaction strengths in complex food webs. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 187-191.	7.1	286
9	ESTIMATING SPECIES RICHNESS: SENSITIVITY TO SAMPLE COVERAGE AND INSENSITIVITY TO SPATIAL PATTERNS. Ecology, 2003, 84, 2364-2377.	3.2	271
10	Limits to Trophic Levels and Omnivory in Complex Food Webs: Theory and Data. American Naturalist, 2004, 163, 458-468.	2.1	267
11	Cascading extinctions and community collapse in model food webs. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 1711-1723.	4.0	233
12	Parasites Affect Food Web Structure Primarily through Increased Diversity and Complexity. PLoS Biology, 2013, 11, e1001579.	5.6	233
13	Compilation and Network Analyses of Cambrian Food Webs. PLoS Biology, 2008, 6, e102.	5.6	211
14	Stabilization of chaotic and non-permanent food-web dynamics. European Physical Journal B, 2004, 38, 297-303.	1.5	158
15	Predicting invasion success in complex ecological networks. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 1743-1754.	4.0	151
16	Mechanistic theory and modelling of complex food-web dynamics in Lake Constance. Ecology Letters, 2012, 15, 594-602.	6.4	141
17	Future novel threats and opportunities facing UK biodiversity identified by horizon scanning. Journal of Applied Ecology, 2008, 45, 821-833.	4.0	130
18	Success and its limits among structural models of complex food webs. Journal of Animal Ecology, 2008, 77, 512-519.	2.8	111

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19	The Probabilistic Niche Model Reveals the Niche Structure and Role of Body Size in a Complex Food Web. PLoS ONE, 2010, 5, e12092.	2.5	97
20	On the prevalence and dynamics of inverted trophic pyramids and otherwise top-heavy communities. Ecology Letters, 2018, 21, 439-454.	6.4	92
21	The intrinsic predictability of ecological time series and its potential to guide forecasting. Ecological Monographs, 2019, 89, e01359.	5.4	74
22	Highly resolved early Eocene food webs show development of modern trophic structure after the end-Cretaceous extinction. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20133280.	2.6	68
23	The roles and impacts of human hunter-gatherers in North Pacific marine food webs. Scientific Reports, 2016, 6, 21179.	3.3	55
24	Effects of network and dynamical model structure on species persistence in large model food webs. Theoretical Ecology, 2008, 1, 141-151.	1.0	54
25	GrOWL: A tool for visualization and editing of OWL ontologies. Web Semantics, 2007, 5, 54-57.	2.9	52
26	Assessing the impacts of international trade on CITES-listed species: Current practices and opportunities for scientific research. Biological Conservation, 2011, 144, 82-91.	4.1	52
27	Simple MaxEnt models explain food web degree distributions. Theoretical Ecology, 2010, 3, 45-52.	1.0	49
28	Effects of spatial scale of sampling on food web structure. Ecology and Evolution, 2015, 5, 3769-3782.	1.9	47
29	Adaptive foraging and the rewiring of size-structured food webs following extinctions. Basic and Applied Ecology, 2011, 12, 562-570.	2.7	42
30	Eco-evolutionary Dynamics of Individual-Based Food Webs. Advances in Ecological Research, 2011, 45, 225-268.	2.7	39
31	The probabilistic niche model reveals substantial variation in the niche structure of empirical food webs. Ecology, 2011, 92, 1849-1857.	3.2	37
32	Biology, Methodology or Chance? The Degree Distributions of Bipartite Ecological Networks. PLoS ONE, 2011, 6, e17645.	2.5	35
33	The consequences of size dependent foraging for food web topology. Oikos, 2011, 120, 493-502.	2.7	35
34	Ontologies for ecoinformatics. Web Semantics, 2006, 4, 237-242.	2.9	34
35	Social Network Analysis and Qualitative Interviews for Assessing Geographic Characteristics of Tourism Business Networks. PLoS ONE, 2016, 11, e0156028.	2.5	18
36	Simulating social-ecological systems: the Island Digital Ecosystem Avatars (IDEA) consortium. GigaScience, 2016, 5, 14.	6.4	15

#	ARTICLE	IF	CITATIONS
37	Compensation masks trophic cascades in complex food webs. <i>Theoretical Ecology</i> , 2017, 10, 245-253.	1.0	12
38	Modeling the Building Blocks of Biodiversity. <i>PLoS ONE</i> , 2013, 8, e56277.	2.5	9
39	Interactive 3D visualization of highly connected ecological networks on the WWW. , 2005, , .		6
40	The influence of single elements on nested community structure. <i>Methods in Ecology and Evolution</i> , 2011, 2, 541-549.	5.2	6
41	Boosting CITES Through Research. <i>Science</i> , 2011, 331, 857-857.	12.6	6
42	DYNAMIC NETWORK MODELS OF ECOLOGICAL DIVERSITY, COMPLEXITY, AND NONLINEAR PERSISTENCE. <i>Complex Systems and Interdisciplinary Science</i> , 2007, , 423-447.	0.2	0
43	Intraspecific variability drives diversity in food webs. <i>Nature Precedings</i> , 2011, , .	0.1	0