Stefano Allesina

List of Publications by Year
in descending order

88 papers	7,921 citations	71097 41 h-index	56717 83 g-index
103 all docs	103 docs citations	103 times ranked	7537 citing authors

#	Article	IF	Citations
1	No robust multispecies coexistence in a canonical model of plantâ€“soil feedbacks. Ecology Letters, 2022, 25, 1690-1698.	6.4	8
2	Tractable models of ecological assembly. Ecology Letters, 2021, 24, 1029-1037.	6.4	32
3	Local stability properties of complex, speciesâ€rich soil food webs with functional block structure. Ecology and Evolution, 2021, 11, 16070-16081.	1.9	11
4	Metapopulations with habitat modification. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	21
5	Predicting coexistence in experimental ecological communities. Nature Ecology and Evolution, 2020, 4, 91-100.	7.8	45
6	Phenotypic variability promotes diversity and stability in competitive communities. Ecology Letters, 2019, 22, 1776-1786.	6.4	30
7	Telling ecological networks apart by their structure: A computational challenge. PLoS Computational Biology, 2019, 15, e1007076.	3.2	20
8	Gene regulatory network stabilized by pervasive weak repressions: microRNA functions revealed by the Mayâ€“Wigner theory. National Science Review, 2019, 6, 1176-1188.	9.5	30
9	Reconciling empirical interactions and species coexistence. Ecology Letters, 2019, 22, 1028-1037.	6.4	11
10	Ecological networks: Pursuing the shortest path, however narrow and crooked. Scientific Reports, 2019, 9, 17826.	3.3	10
11	Transcriptome resilience predicts thermotolerance in Caenorhabditis elegans. BMC Biology, 2019, 17, 102.	3.8	50
12	Network spandrels reflect ecological assembly. Ecology Letters, 2018, 21, 324-334.	6.4	45
13	Understanding the role of parasites in food webs using the group model. Journal of Animal Ecology, 2018, 87, 790-800.	2.8	16
14	Coexistence of many species in random ecosystems. Nature Ecology and Evolution, 2018, 2, 1237-1242.	7.8	90
15	Effect of population abundances on the stability of large random ecosystems. Physical Review E, 2018, 98, 022410.	2.1	58
16	Feasibility and coexistence of large ecological communities. Nature Communications, 2017, 8, .	12.8	115
17	Beyond pairwise mechanisms of species coexistence in complex communities. Nature, 2017, 546, 56-64.	27.8	544
18	Self-regulation and the stability of large ecological networks. Nature Ecology and Evolution, 2017, 1, 1870-1875.	7.8	86

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19	Ecological Network Inference From Long-Term Presence-Absence Data. Scientific Reports, 2017, 7, 7154.	3.3	50
20	Last name analysis of mobility, gender imbalance, and nepotism across academic systems. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7600-7605.	7.1	21
21	Operationalizing Network Theory for Ecosystem Service Assessments. Trends in Ecology and Evolution, 2017, 32, 118-130.	8.7	103
22	Temporal dynamics of gene expression in heat-stressed Caenorhabditis elegans. PLoS ONE, 2017, 12, e0189445.	2.5	62
23	Higher-order interactions stabilize dynamics in competitive network models. Nature, 2017, 548, 210-213.	27.8	389
24	And, not or: Quality, quantity in scientific publishing. PLoS ONE, 2017, 12, e0178074.	2.5	31
25	Modularity and stability in ecological communities. Nature Communications, 2016, 7, 12031.	12.8	208
26	Ocean acidification affects competition for space: projections of community structure using cellular automata. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152561.	2.6	8
27	The Effect of Intra- and Interspecific Competition on Coexistence in Multispecies Communities. American Naturalist, 2016, 188, E1-E12.	2.1	131
28	The Song Overlap Null model Generator (SONG): a new tool for distinguishing between random and non-random song overlap. Bioacoustics, 2016, 25, 29-40.	1.7	29
29	What Can Interaction Webs Tell Us About Species Roles?. PLoS Computational Biology, 2015, 11, e1004330.	3.2	34
30	Selection on stability across ecological scales. Trends in Ecology and Evolution, 2015, 30, 417-425.	8.7	86
31	Effect of localization on the stability of mutualistic ecological networks. Nature Communications, 2015, 6, 10179.	12.8	70
32	The stabilityâ€“complexity relationship at age 40: a random matrix perspective. Population Ecology, 2015, 57, 63-75.	1.2	186
33	Predicting global community properties from uncertain estimates of interaction strengths. Journal of the Royal Society Interface, 2015, 12, 20150218.	3.4	15
34	Predicting the stability of large structured food webs. Nature Communications, 2015, 6, 7842.	12.8	108
35	Metapopulation Persistence in Random Fragmented Landscapes. PLoS Computational Biology, 2015, 11, e1004251.	3.2	49
36	Ten Simple (Empirical) Rules for Writing Science. PLoS Computational Biology, 2015, 11, e1004205.	3.2	35

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37	Stability and feedback levels in food web models. Ecology Letters, 2015, 18, 593-595.	6.4	3
38	The Scientific Impact of Nations: Journal Placement and Citation Performance. PLoS ONE, 2014, 9, e109195.	2.5	103
39	Reactivity and stability of large ecosystems. Frontiers in Ecology and Evolution, 2014, 2, .	2.2	53
40	Linking the green and brown worlds: the prevalence and effect of multichannel feeding in food webs. Ecology, 2014, 95, 3376-3386.	3.2	79
41	Correlation between interaction strengths drives stability in large ecological networks. Ecology Letters, 2014, 17, 1094-1100.	6.4	113
42	Selecting food web models using normalized maximum likelihood. Methods in Ecology and Evolution, 2014, 5, 551-562.	5.2	10
43	Characterizing a scientific elite (B): publication and citation patterns of the most highly cited scientists in environmental science and ecology. Scientometrics, 2013, 94, 469-480.	3.0	42
44	The ghost of nestedness in ecological networks. Nature Communications, 2013, 4, 1391.	12.8	225
45	The dimensionality of ecological networks. Ecology Letters, 2013, 16, 577-583.	6.4	246
46	Secondary extinctions in food webs: a Bayesian network approach. Methods in Ecology and Evolution, 2013, 4, 760-770.	5.2	45
47	With Great Power Comes Great Responsibility: the Importance of Rejection, Power, and Editors in the Practice of Scientific Publishing. PLoS ONE, 2013, 8, e85382.	2.5	4
48	Does Sex Speed Up Evolutionary Rate and Increase Biodiversity?. PLoS Computational Biology, 2012, 8, e1002414.	3.2	17
49	Stability criteria for complex ecosystems. Nature, 2012, 483, 205-208.	27.8	900
50	Relevance of evolutionary history for food web structure. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 1588-1596.	2.6	69
51	The more the merrier. Nature, 2012, 487, 175-176.	27.8	16
52	Predicting scientific success. Nature, 2012, 489, 201-202.	27.8	209
53	Cities as ecosystems: Growth, development and implications for sustainability. Ecological Modelling, 2012, 245, 185-198.	2.5	67
54	Cities as Ecosystems. Developments in Environmental Modelling, 2012, , 297-318.	0.3	2

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55	Good news for the people who love bad news: an analysis of the funding of the top 1% most highly cited ecologists. Oikos, 2012, 121, 1005-1008.	2.7	9
56	Drivers of compartmentalization in a Mediterranean pollination network. Oikos, 2012, 121, 2001-2013.	2.7	44
57	A competitive network theory of species diversity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5638-5642.	7.1	289
58	Measuring Nepotism through Shared Last Names: The Case of Italian Academia. PLoS ONE, 2011, 6, e21160.	2.5	52
59	Interaction rules affect species coexistence in intransitive networks. Ecology, 2011, 92, 1174-1180.	3.2	27
60	Predicting trophic relations in ecological networks: A test of the Allometric Diet Breadth Model. Journal of Theoretical Biology, 2011, 279, 161-168.	1.7	22
61	Food webs: Ordering species according to body size yields high degree of intervality. Journal of Theoretical Biology, 2011, 271, 106-113.	1.7	35
62	Spatial Guilds in the Serengeti Food Web Revealed by a Bayesian Group Model. PLoS Computational Biology, 2011, 7, e1002321.	3.2	57
63	Interaction rules affect species coexistence in intransitive networks. Ecology, 2011, 92, 1174-1180.	3.2	13
64	Characterizing a scientific elite: the social characteristics of the most highly cited scientists in environmental science and ecology. Scientometrics, 2010, 85, 129-143.	3.0	66
65	Frequency-Dependent Selection Predicts Patterns of Radiations and Biodiversity. PLoS Computational Biology, 2010, 6, e1000892.	3.2	20
66	Frequency-dependent selection predicts patterns of radiations and biodiversity. Nature Precedings, 2009, , .	0.1	0
67	Googling Food Webs: Can an Eigenvector Measure Species' Importance for Coextinctions?. PLoS Computational Biology, 2009, 5, e1000494.	3.2	167
68	Using food web dominator trees to catch secondary extinctions in action. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 1725-1731.	4.0	32
69	Functional links and robustness in food webs. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 1701-1709.	4.0	85
70	The assembly, collapse and restoration of food webs. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 1803-1806.	4.0	21
71	Using trophic hierarchy to understand food web structure. Oikos, 2009, 118, 1695-1702.	2.7	23
72	Food web models: a plea for groups. Ecology Letters, 2009, 12, 652-662.	6.4	118

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73	Network structure, predatorâ€“prey modules, and stability in large food webs. Theoretical Ecology, 2008, 1, 55-64.	1.0	184
74	Parasites in food webs: the ultimate missing links. Ecology Letters, 2008, 11, 533-546.	6.4	716
75	A General Model for Food Web Structure. Science, 2008, 320, 658-661.	12.6	217
76	Towards a use of network analysis: quantifying the complexity of Supply Chain Networks. International Journal of Electronic Customer Relationship Management, 2007, 1, 75.	0.2	30
77	A new computational system, DOVE (Digital Organisms in a Virtual Ecosystem), to study phenotypic plasticity and its effects in food webs. Ecological Modelling, 2007, 205, 13-28.	2.5	13
78	Detecting Stress at the Whole-Ecosystem Level: The Case of a Mountain Lake (Lake Santo, Italy). Ecosystems, 2006, 9, 768-787.	3.4	43
79	Secondary extinctions in ecological networks: Bottlenecks unveiled. Ecological Modelling, 2006, 194, 150-161.	2.5	55
80	Effective trophic positions in ecological acyclic networks. Ecological Modelling, 2006, 198, 495-505.	2.5	16
81	Phenotypic Plasticity Opposes Species Invasions by Altering Fitness Surface. PLoS Biology, 2006, 4, e372.	5.6	35
82	Ecological subsystems via graph theory: the role of strongly connected components. Oikos, 2005, 110, 164-176.	2.7	55
83	The consequences of the aggregation of detritus pools in ecological networks. Ecological Modelling, 2005, 189, 221-232.	2.5	45
84	Food web networks: Scaling relation revisited. Ecological Complexity, 2005, 2, 323-338.	2.9	20
85	WAND: an ecological network analysis user-friendly tool. Environmental Modelling and Software, 2004, 19, 337-340.	4.5	81
86	Who dominates whom in the ecosystem? Energy flow bottlenecks and cascading extinctions. Journal of Theoretical Biology, 2004, 230, 351-358.	1.7	123
87	Cycling in ecological networks: Finnâ€™s index revisited. Computational Biology and Chemistry, 2004, 28, 227-233.	2.3	64
88	Steady state of ecosystem flow networks: a comparison between balancing procedures. Ecological Modelling, 2003, 165, 221-229.	2.5	73