David Alonso

List of Publications by Year
in descending order

56 papers	4,058 citations	201674 27 h-index	182427 51 g-index
62 all docs	62 docs citations	62 times ranked	5034 citing authors

#	Article	IF	Citations
1	Species abundance distributions: moving beyond single prediction theories to integration within an ecological framework. Ecology Letters, 2007, 10, 995-1015.	6.4	1,124
2	The merits of neutral theory. Trends in Ecology and Evolution, 2006, 21, 451-457.	8.7	361
3	Stochastic amplification in epidemics. Journal of the Royal Society Interface, 2007, 4, 575-582.	3.4	221
4	A General Model for Food Web Structure. Science, 2008, 320, 658-661.	12.6	217
5	MUTUAL INTERFERENCE BETWEEN PREDATORS CAN GIVE RISE TO TURING SPATIAL PATTERNS. Ecology, 2002, 83, 28-34.	3.2	170
6	A dispersal-limited sampling theory for species and alleles. Ecology Letters, 2005, 8, 1147-1156.	6.4	142
7	Parallel ecological networks in ecosystems. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 1755-1779.	4.0	136
8	Epidemic malaria and warmer temperatures in recent decades in an East African highland. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 1661-1669.	2.6	135
9	Sampling Hubbell's neutral theory of biodiversity. Ecology Letters, 2004, 7, 901-910.	6.4	132
10	Selfâ€"organized instability in complex ecosystems. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 667-681.	4.0	106
11	The zero-sum assumption in neutral biodiversity theory. Journal of Theoretical Biology, 2007, 248, 522-536.	1.7	100
12	Analytic solution of Hubbell's model of local community dynamics. Theoretical Population Biology, 2004, 65, 67-73.	1.1	91
13	Neutral Community Theory: How Stochasticity and Dispersal-Limitation Can Explain Species Coexistence. Journal of Statistical Physics, 2007, 128, 485-510.	1.2	90
14	Climate change and infectious diseases: Can we meet the needs for better prediction?. Climatic Change, 2013, 118, 625-640.	3.6	88
15	Taking species abundance distributions beyond individuals. Ecology Letters, 2009, 12, 488-501.	6.4	80
16	Mean-field stochastic theory for species-rich assembled communities. Physical Review E, 2000, 62, 8466-8484.	2.1	70
17	Habitat fragmentation and biodiversity collapse in neutral communities. Ecological Complexity, 2004, 1, 65-75.	2.9	69
18	The implicit assumption of symmetry and the species abundance distribution. Ecology Letters, 2008, 11, 93-105.	6.4	63

#	Article	IF	Citations
19	Comparing models of species abundance. Nature, 2006, 441, E1-E1.	27.8	60
20	Extinction Dynamics in Mainlandâ€"Island Metapopulations: An N-patch Stochastic Model. Bulletin of Mathematical Biology, 2002, 64, 913-958.	1.9	44
21	Self-organized spatial structures in a ratio-dependent predatorâ€"prey model. Physica A: Statistical Mechanics and Its Applications, 2001, 295, 53-57.	2.6	43
22	The DivGame Simulator: a stochastic cellular automata model of rainforest dynamics. Ecological Modelling, 2000, 133, 131-141.	2.5	41
23	Immanent conditions determine imminent collapses: nutrient regimes define the resilience of macroalgal communities. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20162814.	2.6	37
24	Transmission Intensity and Drug Resistance in Malaria Population Dynamics: Implications for Climate Change. PLoS ONE, 2010, 5, e13588.	2.5	36
25	Fish community reassembly after a coral mass mortality: higher trophic groups are subject to increased rates of extinction. Ecology Letters, 2015, 18, 451-461.	6.4	33
26	A Simple Stochastic Model with Environmental Transmission Explains Multi-Year Periodicity in Outbreaks of Avian Flu. PLoS ONE, 2012, 7, e28873.	2.5	33
27	Scaling in a network model of a multispecies ecosystem. Physica A: Statistical Mechanics and Its Applications, 2000, 286, 337-344.	2.6	29
28	How similar can co-occurring species be in the presence of competition and ecological drift?. Journal of the Royal Society Interface, 2015, 12, 20150604.	3.4	27
29	Plantâ€"mycorrhizal fungus coâ€occurrence network lacks substantial structure. Oikos, 2016, 125, 457-467.	2.7	24
30	Control, synchrony and the persistence of chaotic populations. Chaos, Solitons and Fractals, 2001, 12, 235-249.	5.1	20
31	Frequency-Dependent Selection Predicts Patterns of Radiations and Biodiversity. PLoS Computational Biology, 2010, 6, e1000892.	3.2	20
32	When Can Species Abundance Data Reveal Non-neutrality?. PLoS Computational Biology, 2015, 11, e1004134.	3.2	20
33	Latitudinal regionalization of epibenthic macroinvertebrate communities on rocky reefs in the Gulf of California. Marine Biology Research, 2016, 12, 389-401.	0.7	20
34	Competition and introduction regime shape exotic bird communities in Hawaii. Biological Invasions, 2005, 7, 297-307.	2.4	17
35	Does Sex Speed Up Evolutionary Rate and Increase Biodiversity?. PLoS Computational Biology, 2012, 8, e1002414.	3.2	17
36	A Randomized Trait Community Clustering approach to unveil consistent environmental thresholds in community assembly. ISME Journal, 2019, 13, 2681-2689.	9.8	17

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37	Critical transitions in malaria transmission models are consistently generated by superinfection. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180275.	4.0	17
38	Stochastic competitive exclusion leads to a cascade of species extinctions. Journal of Theoretical Biology, 2017, 419, 137-151.	1.7	12
39	Colonization and extinction rates estimated from temporal dynamics of ecological communities: The island r package. Methods in Ecology and Evolution, 2019, 10, 1108-1117.	5.2	12
40	Response to Benedetti-Cecchi: Neutrality and environmental fluctuations. Trends in Ecology and Evolution, 2007, 22, 232.	8.7	11
41	The characteristic time of ecological communities. Ecology, 2021, 102, e03247.	3.2	11
42	Dynamics and ecological distributions of the Archaea microbiome from inland saline lakes (Monegros) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.7	11
43	Random Walks, Fractals and the Origins of Rainforest Diversity. International Journal of Modeling, Simulation, and Scientific Computing, 1998, 01, 203-220.	1.4	10
44	ON THE FRACTAL NATURE OF ECOLOGICAL AND MACROEVOLUTIONARY DYNAMICS. Fractals, 2001, 09, 1-16.	3.7	9
45	General decline in the diversity of the airborne microbiota under future climatic scenarios. Scientific Reports, 2021, 11, 20223.	3.3	8
46	Comment on "A Keystone Mutualism Drives Pattern in a Power Function". Science, 2006, 313, 1739b-1739b.	12.6	7
47	Spatial self-organization in a multi-strain hostâ€"pathogen system. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P05017.	2.3	4
48	Competitive dominance in plant communities: Modeling approaches and theoretical predictions. Journal of Theoretical Biology, 2020, 502, 110349.	1.7	4
49	The Stochastic Nature of Functional Responses. Entropy, 2021, 23, 575.	2.2	4
50	A signal of competitive dominance in mid-latitude herbaceous plant communities. Royal Society Open Science, 2021, 8, 201361.	2.4	2
51	Evidence of Critical Transitions and Coexistence of Alternative States in Nature: The Case of Malaria Transmission. Trends in Mathematics, 2019, , 73-79.	0.1	1
52	Biological Microbial Interactions from Cooccurrence Networks in a High Mountain Lacustrine District. MSphere, 2022, 7, .	2.9	1
53	Frequency-dependent selection predicts patterns of radiations and biodiversity. Nature Precedings, 2009, , .	0.1	0
54	Allee effects under the magnifying glass. Peer Community in Ecology, 0, , .	0.0	0

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55	Modelling Functional Shifts in Two-Species Hypercycles. Mathematics, 2021, 9, 1809.	2.2	0
56	Describing properties of littoral habitats from NW Mediterranean rocky shores through co-occurrence network analysis. Estuarine, Coastal and Shelf Science, 2021, 262, 107623.	2.1	0