Carl Boettiger

List of Publications by Year
in descending order

49 papers	3,012 citations	361296 20 h-index	276775 41 g-index
64 all docs	64 docs citations	64 times ranked	4873 citing authors

#	ARTICLE	IF	CITATIONS
1	An introduction to Docker for reproducible research. Operating Systems Review (ACM), 2015, 49, 71-79.	1.5	669
2	MODELING STABILIZING SELECTION: EXPANDING THE ORNSTEIN-UHLENBECK MODEL OF ADAPTIVE EVOLUTION. Evolution; International Journal of Organic Evolution, 2012, 66, 2369-2383.	1.1	537
3	rfishbase: exploring, manipulating and visualizing FishBase data from R. Journal of Fish Biology, 2012, 81, 2030-2039.	0.7	252
4	IS YOUR PHYLOGENY INFORMATIVE? MEASURING THE POWER OF COMPARATIVE METHODS. Evolution; International Journal of Organic Evolution, 2012, 66, 2240-2251.	1.1	216
5	Quantifying limits to detection of early warning for critical transitions. Journal of the Royal Society Interface, 2012, 9, 2527-2539.	1.5	157
6	Early warning signals: the charted and uncharted territories. Theoretical Ecology, 2013, 6, 255-264.	0.4	154
7	Making ecological models adequate. Ecology Letters, 2018, 21, 153-166.	3.0	100
8	Early warning signals and the prosecutor's fallacy. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4734-4739.	1.2	99
9	From patterns to predictions. Nature, 2013, 493, 157-158.	13.7	96
10	Skills and Knowledge for Data-Intensive Environmental Research. BioScience, 2017, 67, 546-557.	2.2	68
11	Packaging Data Analytical Work Reproducibly Using R (and Friends). American Statistician, 2018, 72, 80-88.	0.9	59
12	From noise to knowledge: how randomness generates novel phenomena and reveals information. Ecology Letters, 2018, 21, 1255-1267.	3.0	51
13	Optimal management of a stochastically varying population when policy adjustment is costly. Ecological Applications, 2016, 26, 808-817.	1.8	43
14	Building Software, Building Community: Lessons from the rOpenSci Project. Journal of Open Research Software, 2015, 3, 8.	2.7	42
15	Rebuilding global fisheries under uncertainty. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15985-15990.	3.3	35
16	No early warning signals for stochastic transitions: insights from large deviation theory. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20131372.	1.2	32
17	Enforcing public data archiving policies in academic publishing: A study of ecology journals. Big Data and Society, 2019, 6, 205395171983625.	2.6	32
18	An Introduction to Rocker: Docker Containers for R. R Journal, 2017, 9, 527.	0.7	30

#	Article	IF	Citations
19	Avoiding tipping points in fisheries management through Gaussian process dynamic programming. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20141631.	1.2	29
20	The Shape, Multiplicity, and Evolution of Superclusters in ΛCDM Cosmology. Astrophysical Journal, 2006, 652, 907-916.	1.6	24
21	After the games are over: life‐history trade‐offs drive dispersal attenuation following range expansion. Ecology and Evolution, 2016, 6, 6425-6434.	0.8	21
22	Adaptive management of ecological systems under partial observability. Biological Conservation, 2018, 224, 9-15.	1.9	19
23	<scp>T</scp>reebase: an <scp>R</scp> package for discovery, access and manipulation of online phylogenies. Methods in Ecology and Evolution, 2012, 3, 1060-1066.	2.2	15
24	Revealing biases in the sampling of ecological interaction networks. PeerJ, 2019, 7, e7566.	0.9	15
25	Algorithmic conservation in a changing climate. Current Opinion in Environmental Sustainability, 2021, 51, 30-35.	3.1	14
26	Grazer behaviour can regulate large‐scale patterning of community states. Ecology Letters, 2021, 24, 1917-1929.	3.0	11
27	The forecast trap. Ecology Letters, 2022, 25, 1655-1664.	3.0	9
28	A Community of Practice Around Peer Review for Long-Term Research Software Sustainability. Computing in Science and Engineering, 2019, 21, 59-65.	1.2	8
29	taxadb: A high‐performance local taxonomic database interface. Methods in Ecology and Evolution, 2020, 11, 1153-1159.	2.2	8
30	Promoting equity in the use of algorithms for high-seas conservation. One Earth, 2021, 4, 790-794.	3.6	6
31	The principles of tomorrow's university. F1000Research, 2018, 7, 1926.	0.8	6
32	Ecological Metadata as Linked Data. Journal of Open Source Software, 2019, 4, 1276.	2.0	6
33	Fluctuation domains in adaptive evolution. Theoretical Population Biology, 2010, 77, 6-13.	0.5	5
34	Resolving the Measurement Uncertainty Paradox in Ecological Management. American Naturalist, 2019, 193, 645-660.	1.0	5
35	Bifurcation or state tipping: assessing transition type in a model trophic cascade. Journal of Mathematical Biology, 2020, 80, 143-155.	0.8	5
36	Ecological management of stochastic systems with long transients. Theoretical Ecology, 2021, 14, 663-671.	0.4	5

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37	A Shiny <scp>r</scp> app to solve the problem of when to stop managing or surveying species under imperfect detection. Methods in Ecology and Evolution, 2020, 11, 1707-1715.	2.2	4
38	Teaching machines to anticipate catastrophes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	4
39	Generating CodeMeta Metadata for R Packages. Journal of Open Source Software, 2017, 2, 454.	2.0	4
40	RNeXML: a package for reading and writing richly annotated phylogenetic, character and trait data in r. Methods in Ecology and Evolution, 2016, 7, 352-357.	2.2	2
41	Noise can create or erase long transient dynamics. Theoretical Ecology, 0, , 1.	0.4	2
42	Managing Larger Data on a GitHub Repository. Journal of Open Source Software, 2018, 3, 971.	2.0	2
43	Limits to the detection of early warning signals of population collapse. Nature Precedings, 2012, , .	0.1	1
44	Optimal management of a stochastically varying population when policy adjustment is costly. , 0, , 150806113437008.		1
45	My experiment with open science: Why the benefits of sharing go beyond source code. Nature Precedings, 2010, , .	0.1	0
46	A general model of continuous character evolution. Nature Precedings, 2011, , .	0.1	0
47	Using TreeBASE from R. Nature Precedings, 2012, , .	0.1	0
48	The Evolutionary Seesaw: Origins of biodiversity?. Nature Precedings, 2012, , .	0.1	0
49	Integrating Open Lab Notebooks with Online Databases. Nature Precedings, 2012, , .	0.1	0