Scott D Foster

List of Publications by Year
in descending order

64 papers	2,071 citations	331538 21 h-index	254106 43 g-index
64 all docs	64 docs citations	64 times ranked	3198 citing authors

#	Article	IF	Citations
1	A comprehensive evaluation of predictive performance of 33 species distribution models at species and community levels. Ecological Monographs, 2019, 89, e01370.	2.4	290
2	Model‐based approaches to unconstrained ordination. Methods in Ecology and Evolution, 2015, 6, 399-411.	2.2	195
3	Model-based thinking for community ecology. Plant Ecology, 2015, 216, 669-682.	0.7	120
4	Evidence of discrete yellowfin tuna (Thunnus albacares) populations demands rethink of management for this globally important resource. Scientific Reports, 2015, 5, 16916.	1.6	97
5	Model based grouping of species across environmental gradients. Ecological Modelling, 2011, 222, 955-963.	1.2	95
6	Global patterns of change and variation in sea surface temperature and chlorophyll a. Scientific Reports, 2018, 8, 14624.	1.6	88
7	To mix or not to mix: comparing the predictive performance of mixture models vs. separate species distribution models. Ecology, 2013, 94, 1913-1919.	1.5	80
8	A Poisson–Gamma model for analysis of ecological non-negative continuous data. Environmental and Ecological Statistics, 2013, 20, 533-552.	1.9	75
9	A climate of uncertainty: accounting for error in climate variables for species distribution models. Methods in Ecology and Evolution, 2015, 6, 412-423.	2.2	66
10	Identifying indicators and essential variables for marine ecosystems. Ecological Indicators, 2015, 57, 409-419.	2.6	60
11	Finite Mixture of Regression Modeling for High-Dimensional Count and Biomass Data in Ecology. Journal of Agricultural, Biological, and Environmental Statistics, 2013, 18, 357-375.	0.7	52
12	The Analysis of Biodiversity Using Rank Abundance Distributions. Biometrics, 2010, 66, 186-195.	0.8	50
13	Tuning Parameter Selection for the Adaptive Lasso Using ERIC. Journal of the American Statistical Association, 2015, 110, 262-269.	1.8	50
14	Model‐based mapping of assemblages for ecology and conservation management: A case study of demersal fish on the Kerguelen Plateau. Diversity and Distributions, 2017, 23, 1216-1230.	1.9	50
15	Modelling biological regions from multi‐species and environmental data. Environmetrics, 2013, 24, 489-499.	0.6	45
16	Identifying and detecting potentially adverse ecological outcomes associated with the release of gene-drive modified organisms. Journal of Responsible Innovation, 2018, 5, S139-S158.	2.3	43
17	Image subsampling and point scoring approaches for large-scale marine benthic monitoring programs. Estuarine, Coastal and Shelf Science, 2016, 176, 36-46.	0.9	25
18	Identifying hotspots for biodiversity management using rank abundance distributions. Diversity and Distributions, 2012, 18, 22-32.	1.9	24

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19	Choosing between strategies for designing surveys: autonomous underwater vehicles. Methods in Ecology and Evolution, 2014, 5, 287-297.	2.2	24
20	Spatially balanced designs that incorporate legacy sites. Methods in Ecology and Evolution, 2017, 8, 1433-1442.	2.2	24
21	Quantifying fish behaviour and commercial catch rates in relation to a marine seismic survey. Marine Environmental Research, 2018, 140, 18-30.	1.1	23
22	Twenty Years of High-Resolution Sea Surface Temperature Imagery around Australia: Inter-Annual and Annual Variability. PLoS ONE, 2014, 9, e100762.	1.1	22
23	Uncertainty in spatially predicted covariates: is it ignorable?. Journal of the Royal Statistical Society Series C: Applied Statistics, 2012, 61, 637-652.	0.5	21
24	The cumulative effect of trawl fishing on a multispecies fish assemblage in south‐eastern Australia. Journal of Applied Ecology, 2015, 52, 129-139.	1.9	21
25	Multi-species distribution modeling using penalized mixture of regressions. Annals of Applied Statistics, 2015, 9, .	0.5	20
26	Determining marine bioregions: A comparison of quantitative approaches. Methods in Ecology and Evolution, 2020, 11, 1258-1272.	2.2	20
27	RAD biodiversity: prediction of rank abundance distributions from deep water benthic assemblages. Ecography, 2011, 34, 798-806.	2.1	19
28	Incorporating LASSO effects into a mixed model for quantitative trait loci detection. Journal of Agricultural, Biological, and Environmental Statistics, 2007, 12, 300-314.	0.7	18
29	How can climate predictions improve sustainability of coastal fisheries in Pacific Small-Island Developing States?. Marine Policy, 2018, 88, 295-302.	1.5	18
30	Spatially balanced designs for transect‐based surveys. Methods in Ecology and Evolution, 2020, 11, 95-105.	2.2	18
31	Altered niche of an ecologically significant urchin species, Centrostephanus rodgersii, in its extended range revealed using an Autonomous Underwater Vehicle. Estuarine, Coastal and Shelf Science, 2015, 155, 56-65.	0.9	17
32	Characterising uncertainty in generalised dissimilarity models. Methods in Ecology and Evolution, 2017, 8, 985-995.	2.2	17
33	Bioregions in Marine Environments: Combining Biological and Environmental Data for Management and Scientific Understanding. BioScience, 2020, 70, 48-59.	2.2	16
34	Do communities exist? Complex patterns of overlapping marine species distributions. Ecology, 2014, 95, 2016-2025.	1.5	15
35	Order selection in finite mixture models: complete or observed likelihood information criteria?. Biometrika, 2015, 102, 724-730.	1.3	15
36	Designing Monitoring Programs for Marine Protected Areas Within an Evidence Based Decision Making Paradigm. Frontiers in Marine Science, 2019, 6, .	1.2	15

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37	Stop ignoring map uncertainty in biodiversity science and conservation policy. Nature Ecology and Evolution, 2022, 6, 828-829.	3.4	15
38	Ecological Grouping of Survey Sites When Sampling Artefacts are Present. Journal of the Royal Statistical Society Series C: Applied Statistics, 2017, 66, 1031-1047.	0.5	14
39	Simultaneous vegetation classification and mapping at large spatial scales. Journal of Biogeography, 2017, 44, 2891-2902.	1.4	13
40	Reliable species distributions are obtainable with sparse, patchy and biased data by leveraging over species and data types. Methods in Ecology and Evolution, 2019, 10, 1002-1014.	2.2	13
41	A Suite of Field Manuals for Marine Sampling to Monitor Australian Waters. Frontiers in Marine Science, 2019, 6, .	1.2	12
42	Population differentiation from environmental DNA: Investigating the potential of haplotype presence/absenceâ€based analysis of molecular variance. Environmental DNA, 2021, 3, 541-552.	3.1	12
43	Host specificity, establishment and dispersal of the gorse thrips, Sericothrips staphylinus Haliday (Thysanoptera: Thripidae), a biological control agent for gorse, Ulex europaeus L. (Fabaceae), in Australia. Biological Control, 2008, 45, 460-471.	1.4	11
44	A random model approach for the LASSO. Computational Statistics, 2008, 23, 217-233.	0.8	10
45	Developing indicators and a baseline for monitoring demersal fish in data-poor, offshore Marine Parks using probabilistic sampling. Ecological Indicators, 2018, 89, 610-621.	2.6	10
46	Monitoring the resilience of a no-take marine reserve to a range extending species using benthic imagery. PLoS ONE, 2020, 15, e0237257.	1.1	10
47	Temporal and spatial variability in the cover of deep reef species: Implications for monitoring. Ecological Indicators, 2017, 77, 337-347.	2.6	9
48	Effects of ignoring survey design information for data reuse. Ecological Applications, 2021, 31, e02360.	1.8	9
49	Phytoplasma host range and symptom expression in the pasture legume Stylosanthes. Field Crops Research, 2003, 84, 327-334.	2.3	8
50	Comparing largeâ€scale bioregions and fineâ€scale communityâ€level biodiversity predictions from subtidal rocky reefs across southâ€eastern Australia. Journal of Applied Ecology, 2012, 49, 851-860.	1.9	8
51	Reliably discriminating stock structure with genetic markers: Mixture models with robust and fast computation. Molecular Ecology Resources, 2018, 18, 1310-1325.	2.2	8
52	Using indices of atmospheric circulation to refine southern Australian winter rainfall climate projections. Climate Dynamics, 2019, 53, 5481-5493.	1.7	8
53	MBHdesign: An Râ€package for efficient spatial survey designs. Methods in Ecology and Evolution, 2021, 12, 415-420.	2.2	8
54	Analysis and prediction of faunal distributions from video and multiâ€beam sonar data using Markov models. Environmetrics, 2009, 20, 541-560.	0.6	7

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55	Accounting for Location Error in Kalman Filters: Integrating Animal Borne Sensor Data into Assimilation Schemes. PLoS ONE, 2012, 7, e42093.	1.1	6
56	Yield comparisons and cropping patterns of Kensington Pride mango selections. Australian Journal of Experimental Agriculture, 2002, 42, 1009.	1.0	5
57	Spatial properties of sessile benthic organisms and the design of repeat visual survey transects. Aquatic Conservation: Marine and Freshwater Ecosystems, 2019, 29, 59-71.	0.9	5
58	Trail camera video systems: investigating their utility in interpreting patterns of marine, recreational, trailer-boat fishersâ€™ access to an offshore Marine Park in differing weather conditions. ICES Journal of Marine Science, 2020, 77, 3110-3126.	1.2	5
59	Spatiotemporal clustering using Gaussian processes embedded in a mixture model. Environmetrics, 2021, 32, e2681.	0.6	4
60	ESTIMATION, PREDICTION AND INFERENCE FOR THE LASSO RANDOM EFFECTS MODEL. Australian and New Zealand Journal of Statistics, 2009, 51, 43-61.	0.4	3
61	Graphical Diagnostics for Markov Models for Categorical Data. Journal of Computational and Graphical Statistics, 2011, 20, 355-374.	0.9	3
62	Imperfect observations in ecological studies. Environmental and Ecological Statistics, 2016, 23, 337-358.	1.9	3
63	Use of optical density as a measure ofClaviceps africanaconidial suspension concentration. Australasian Plant Pathology, 2006, 35, 77.	0.5	2
64	Sample size requirements for genetic studies on yellowfin tuna. PLoS ONE, 2021, 16, e0259113.	1.1	2