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	Stop ignoring map uncertainty in biodiversity science and conservation policy. Nature Ecology and Evolution, 2022, 6, 828-829.	3.4	15
2	MBHdesign: An R‑package for efficient spatial survey designs. Methods in Ecology and Evolution, 2021, 12, 415-420.	2.2	8
3	Population differentiation from environmental DNA: Investigating the potential of haplotype presence/absence‑based analysis of molecular variance. Environmental DNA, 2021, 3, 541-552.	3.1	12
4	Spatiotemporal clustering using Gaussian processes embedded in a mixture model. Environmetrics, 2021, 32, e2681.	0.6	4
5	Effects of ignoring survey design information for data reuse. Ecological Applications, 2021, 31, e02360.	1.8	9
6	Sample size requirements for genetic studies on yellowfin tuna. PLoS ONE, 2021, 16, e0259113.	1.1	2
7	Spatially balanced designs for transect‑based surveys. Methods in Ecology and Evolution, 2020, 11, 95-105.	2.2	18
8	Bioregions in Marine Environments: Combining Biological and Environmental Data for Management and Scientific Understanding. BioScience, 2020, 70, 48-59.	2.2	16
9	Determining marine bioregions: A comparison of quantitative approaches. Methods in Ecology and Evolution, 2020, 11, 1258-1272.	2.2	20
10	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
11	Trail camera video systems: investigating their utility in interpreting patterns of marine, recreational, trailer-boat fishers' access to an offshore Marine Park in differing weather conditions. ICES Journal of Marine Science, 2020, 77, 3110-3126.	1.2	5
12	Using indices of atmospheric circulation to refine southern Australian winter rainfall climate projections. Climate Dynamics, 2019, 53, 5481-5493.	1.7	8
13	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
14	A comprehensive evaluation of predictive performance of 33 species distribution models at species and community levels. Ecological Monographs, 2019, 89, e01370.	2.4	290
15	A Suite of Field Manuals for Marine Sampling to Monitor Australian Waters. Frontiers in Marine Science, 2019, 6, .	1.2	12
16	Designing Monitoring Programs for Marine Protected Areas Within an Evidence Based Decision Making Paradigm. Frontiers in Marine Science, 2019, 6, .	1.2	15
17	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
18	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

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19	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
20	How can climate predictions improve sustainability of coastal fisheries in Pacific Small-Island Developing States?. Marine Policy, 2018, 88, 295-302.	1.5	18
21	Global patterns of change and variation in sea surface temperature and chlorophyll a. Scientific Reports, 2018, 8, 14624.	1.6	88
22	Quantifying fish behaviour and commercial catch rates in relation to a marine seismic survey. Marine Environmental Research, 2018, 140, 18-30.	1.1	23
23	Reliably discriminating stock structure with genetic markers: Mixture models with robust and fast computation. Molecular Ecology Resources, 2018, 18, 1310-1325.	2.2	8
24	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
25	Temporal and spatial variability in the cover of deep reef species: Implications for monitoring. Ecological Indicators, 2017, 77, 337-347.	2.6	9
26	Spatially balanced designs that incorporate legacy sites. Methods in Ecology and Evolution, 2017, 8, 1433-1442.	2.2	24
27	Characterising uncertainty in generalised dissimilarity models. Methods in Ecology and Evolution, 2017, 8, 985-995.	2.2	17
28	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
29	Simultaneous vegetation classification and mapping at large spatial scales. Journal of Biogeography, 2017, 44, 2891-2902.	1.4	13
30	Imperfect observations in ecological studies. Environmental and Ecological Statistics, 2016, 23, 337-358.	1.9	3
31	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
32	Multi-species distribution modeling using penalized mixture of regressions. Annals of Applied Statistics, 2015, 9, .	0.5	20
33	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
34	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
35	Model-based thinking for community ecology. Plant Ecology, 2015, 216, 669-682.	0.7	120
36	Tuning Parameter Selection for the Adaptive Lasso Using ERIC. Journal of the American Statistical Association, 2015, 110, 262-269.	1.8	50

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37	Identifying indicators and essential variables for marine ecosystems. Ecological Indicators, 2015, 57, 409-419.	2.6	60
38	Order selection in finite mixture models: complete or observed likelihood information criteria?. Biometrika, 2015, 102, 724-730.	1.3	15
39	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
40	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
41	Model‐based approaches to unconstrained ordination. Methods in Ecology and Evolution, 2015, 6, 399-411.	2.2	195
42	Choosing between strategies for designing surveys: autonomous underwater vehicles. Methods in Ecology and Evolution, 2014, 5, 287-297.	2.2	24
43	Do communities exist? Complex patterns of overlapping marine species distributions. Ecology, 2014, 95, 2016-2025.	1.5	15
44	Twenty Years of High-Resolution Sea Surface Temperature Imagery around Australia: Inter-Annual and Annual Variability. PLoS ONE, 2014, 9, e100762.	1.1	22
45	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
46	Modelling biological regions from multi‐species and environmental data. Environmetrics, 2013, 24, 489-499.	0.6	45
47	A Poisson‐Gamma model for analysis of ecological non-negative continuous data. Environmental and Ecological Statistics, 2013, 20, 533-552.	1.9	75
48	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
49	Accounting for Location Error in Kalman Filters: Integrating Animal Borne Sensor Data into Assimilation Schemes. PLoS ONE, 2012, 7, e42093.	1.1	6
50	Identifying hotspots for biodiversity management using rank abundance distributions. Diversity and Distributions, 2012, 18, 22-32.	1.9	24
51	Comparing large‐scale bioregions and fine‐scale community‐level biodiversity predictions from subtidal rocky reefs across south‐eastern Australia. Journal of Applied Ecology, 2012, 49, 851-860.	1.9	8
52	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
53	Graphical Diagnostics for Markov Models for Categorical Data. Journal of Computational and Graphical Statistics, 2011, 20, 355-374.	0.9	3
54	RAD biodiversity: prediction of rank abundance distributions from deep water benthic assemblages. Ecography, 2011, 34, 798-806.	2.1	19

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55	Model based grouping of species across environmental gradients. Ecological Modelling, 2011, 222, 955-963.	1.2	95
56	The Analysis of Biodiversity Using Rank Abundance Distributions. Biometrics, 2010, 66, 186-195.	0.8	50
57	Analysis and prediction of faunal distributions from video and multi€beam sonar data using Markov models. Environmetrics, 2009, 20, 541-560.	0.6	7
58	ESTIMATION, PREDICTION AND INFERENCE FOR THE LASSO RANDOM EFFECTS MODEL. Australian and New Zealand Journal of Statistics, 2009, 51, 43-61.	0.4	3
59	A random model approach for the LASSO. Computational Statistics, 2008, 23, 217-233.	0.8	10
60	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
61	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
62	Use of optical density as a measure ofClaviceps africanaconidial suspension concentration. Australasian Plant Pathology, 2006, 35, 77.	0.5	2
63	Phytoplasma host range and symptom expression in the pasture legume Stylosanthes. Field Crops Research, 2003, 84, 327-334.	2.3	8
64	Yield comparisons and cropping patterns of Kensington Pride mango selections. Australian Journal of Experimental Agriculture, 2002, 42, 1009.	1.0	5