

Adam M. Wilson

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

2,666
citations

185998

28
h-index

214527

47
g-index

51
all docs

51
docs citations

51
times ranked

5089
citing authors

#	ARTICLE	IF	CITATIONS
1	Remotely Sensed High-Resolution Global Cloud Dynamics for Predicting Ecosystem and Biodiversity Distributions. <i>PLoS Biology</i> , 2016, 14, e1002415.	2.6	269
2	Spatial and interspecific variability in phenological responses to warming temperatures. <i>Biological Conservation</i> , 2009, 142, 2569-2577.	1.9	196
3	Statistical downscaling and bias correction of climate model outputs for climate change impact assessment in the U.S. northeast. <i>Global and Planetary Change</i> , 2013, 100, 320-332.	1.6	194
4	Monitoring biodiversity in the Anthropocene using remote sensing in species distribution models. <i>Remote Sensing of Environment</i> , 2020, 239, 111626.	4.6	142
5	On using integral projection models to generate demographically driven predictions of species' distributions: development and validation using sparse data. <i>Ecography</i> , 2014, 37, 1167-1183.	2.1	121
6	Air pollution, weather, and respiratory emergency room visits in two northern New England cities: an ecological time-series study. <i>Environmental Research</i> , 2005, 97, 312-321.	3.7	97
7	Predicting autumn phenology: How deciduous tree species respond to weather stressors. <i>Agricultural and Forest Meteorology</i> , 2018, 250-251, 127-137.	1.9	95
8	Multivariate forecasts of potential distributions of invasive plant species. <i>Ecological Applications</i> , 2009, 19, 359-375.	1.8	91
9	Towards connecting biodiversity and geodiversity across scales with satellite remote sensing. <i>Global Ecology and Biogeography</i> , 2019, 28, 548-556.	2.7	87
10	Integrating remote sensing with ecology and evolution to advance biodiversity conservation. <i>Nature Ecology and Evolution</i> , 2022, 6, 506-519.	3.4	84
11	Metabolic asymmetry and the global diversity of marine predators. <i>Science</i> , 2019, 363, .	6.0	81
12	Identifying hotspots for plant invasions and forecasting focal points of further spread. <i>Journal of Applied Ecology</i> , 2009, 46, 1219-1228.	1.9	72
13	Integrating occurrence data and expert maps for improved species range predictions. <i>Global Ecology and Biogeography</i> , 2017, 26, 243-258.	2.7	71
14	Air pollution and the demand for hospital services: a review. <i>Environment International</i> , 2004, 30, 1109-1118.	4.8	66
15	Developing Dynamic Mechanistic Species Distribution Models: Predicting Bird-Mediated Spread of Invasive Plants across Northeastern North America. <i>American Naturalist</i> , 2011, 178, 30-43.	1.0	66
16	Downscaling of species distribution models: a hierarchical approach. <i>Methods in Ecology and Evolution</i> , 2013, 4, 82-94.	2.2	63
17	Point Pattern Modelling for Degraded Presence-Only Data Over Large Regions. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2011, 60, 757-776.	0.5	60
18	Intensifying postfire weather and biological invasion drive species loss in a Mediterranean-type biodiversity hotspot. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4697-4702.	3.3	60

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19	A Hierarchical Bayesian model of wildfire in a Mediterranean biodiversity hotspot: Implications of weather variability and global circulation. <i>Ecological Modelling</i> , 2010, 221, 106-112.	1.2	57
20	Global daily 1-km land surface precipitation based on cloud cover-informed downscaling. <i>Scientific Data</i> , 2021, 8, 307.	2.4	50
21	Systematic land cover bias in Collection 5 MODIS cloud mask and derived products – A global overview. <i>Remote Sensing of Environment</i> , 2014, 141, 149-154.	4.6	47
22	Are there spurious temperature trends in the United States Climate Division database?. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	46
23	Climatic controls on ecosystem resilience: Postfire regeneration in the Cape Floristic Region of South Africa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9058-9063.	3.3	42
24	Are there spurious precipitation trends in the United States Climate Division database?. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	41
25	Modeling large scale species abundance with latent spatial processes. <i>Annals of Applied Statistics</i> , 2010, 4, .	0.5	40
26	Model-based integration of observed and expert-based information for assessing the geographic and environmental distribution of freshwater species. <i>Ecography</i> , 2016, 39, 1078-1088.	2.1	34
27	Scaling up: linking field data and remote sensing with a hierarchical model. <i>International Journal of Geographical Information Science</i> , 2011, 25, 509-521.	2.2	32
28	Using multi-timescale methods and satellite-derived land surface temperature for the interpolation of daily maximum air temperature in Oregon. <i>International Journal of Climatology</i> , 2015, 35, 3862-3878.	1.5	32
29	Beyond counts and averages: Relating geodiversity to dimensions of biodiversity. <i>Global Ecology and Biogeography</i> , 2020, 29, 696-710.	2.7	29
30	Modeling daily flowering probabilities: expected impact of climate change on Japanese cherry phenology. <i>Global Change Biology</i> , 2014, 20, 1251-1263.	4.2	28
31	Estimating uncertainty in daily weather interpolations: a Bayesian framework for developing climate surfaces. <i>International Journal of Climatology</i> , 2014, 34, 2573-2584.	1.5	28
32	A new class of flexible link functions with application to species co-occurrence in cape floristic region. <i>Annals of Applied Statistics</i> , 2013, 7, .	0.5	25
33	Uncertainty, priors, autocorrelation and disparate data in downscaling of species distributions. <i>Diversity and Distributions</i> , 2014, 20, 797-812.	1.9	25
34	Change point estimation of deciduous forest land surface phenology. <i>Remote Sensing of Environment</i> , 2020, 240, 111698.	4.6	25
35	Green-up of deciduous forest communities of northeastern North America in response to climate variation and climate change. <i>Landscape Ecology</i> , 2015, 30, 109-123.	1.9	23
36	Near-real time forecasting and change detection for an open ecosystem with complex natural dynamics. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 166, 15-25.	4.9	21

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37	Plant spectral diversity as a surrogate for species, functional and phylogenetic diversity across a hyperdiverse biogeographic region. <i>Global Ecology and Biogeography</i> , 2021, 30, 1403-1417.	2.7	21
38	Content Volatility of Scientific Topics in Wikipedia: A Cautionary Tale. <i>PLoS ONE</i> , 2015, 10, e0134454.	1.1	20
39	An Assessment of Methods and Remote-Sensing Derived Covariates for Regional Predictions of 1 km Daily Maximum Air Temperature. <i>Remote Sensing</i> , 2014, 6, 8639-8670.	1.8	19
40	Evaluation of satellite-derived burned area products for the fynbos, a Mediterranean shrubland. <i>International Journal of Wildland Fire</i> , 2012, 21, 36.	1.0	18
41	Spatial detection of alpine treeline ecotones in the Western United States. <i>Remote Sensing of Environment</i> , 2020, 240, 111672.	4.6	14
42	Support for a relationship between demography and modeled habitat suitability is scale dependent for the purple martin <i>Progne subis</i> . <i>Journal of Animal Ecology</i> , 2021, 90, 356-366.	1.3	9
43	The <code>geodiv</code> package: Tools for calculating gradient surface metrics. <i>Methods in Ecology and Evolution</i> , 2021, 12, 2094-2100.	2.2	6
44	Understanding limits of species identification using simulated imaging spectroscopy. <i>Remote Sensing of Environment</i> , 2021, 259, 112405.	4.6	5
45	A cloud-based toolbox for the versatile environmental annotation of biodiversity data. <i>PLoS Biology</i> , 2021, 19, e3001460.	2.6	5
46	Remote Sensing of Geodiversity as a Link to Biodiversity. , 2020, , 225-253.		4
47	Point pattern modelling for degraded presence-only data over large regions. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2011, 60, 757-776.	0.5	3
48	Climatic Influences on Survival of Migratory African Reed Warblers <i>Acrocephalus baeticatus</i> in South Africa. <i>Ardea</i> , 2015, 103, 163-174.	0.3	2