Matthew C Fitzpatrick

List of Publications by Year
in descending order

65 papers	6,886 citations	109264 35 h-index	123376 61 g-index
72 all docs	72 docs citations	72 times ranked	11625 citing authors

#	Article	IF	Citations
1	Seeing the forest for the trees: Assessing genetic offset predictions from gradient forest. Evolutionary Applications, 2022, 15, 403-416.	1.5	32
2	A working guide to harnessing generalized dissimilarity modelling for biodiversity analysis and conservation assessment. Global Ecology and Biogeography, 2022, 31, 802-821.	2.7	50
3	Genotypic variation and plasticity in climate-adaptive traits after range expansion and fragmentation of red spruce (<i>Picea rubens</i>Sarg.). Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, 20210008.	1.8	10
4	Maladaptation, migration and extirpation fuel climate change risk in a forest tree species. Nature Climate Change, 2021, 11, 166-171.	8.1	69
5	Experimental support for genomic prediction of climate maladaptation using the machine learning approach Gradient Forests. Molecular Ecology Resources, 2021, 21, 2749-2765.	2.2	55
6	The ODMAP protocol: a new tool for standardized reporting that could revolutionize species distribution modeling. Ecography, 2021, 44, 1067-1070.	2.1	13
7	Relationships between climate and phylogenetic community structure of fossil pollen assemblages are not constant during the last deglaciation. PLoS ONE, 2021, 16, e0240957.	1.1	0
8	Wholeâ€exome sequencing reveals a longâ€term decline in effective population size of red spruce (<i>Picea rubens</i>). Evolutionary Applications, 2020, 13, 2190-2205.	1.5	19
9	Genomic Prediction of (Mal)Adaptation Across Current and Future Climatic Landscapes. Annual Review of Ecology, Evolution, and Systematics, 2020, 51, 245-269.	3.8	140
10	Distinct fungal successional trajectories following wildfire between soil horizons in a coldâ€temperate forest. New Phytologist, 2020, 227, 572-587.	3.5	41
11	Contemporary range position predicts the rangeâ€wide pattern of genetic diversity in balsam poplar (<i>Populus balsamifera</i> L.). Journal of Biogeography, 2020, 47, 1246-1257.	1.4	12
12	Advancing interpretation of stable isotope assignment maps: comparing and summarizing origins of known-provenance migratory bats. Animal Migration, 2020, 7, 27-41.	1.1	13
13	What evidence exists for landbird species-environment relationships in eastern temperate and boreal forests of North America? A systematic map protocol. Environmental Evidence, 2019, 8, .	1.1	5
14	Contemporary climatic analogs for 540 North American urban areas in the late 21st century. Nature Communications, 2019, 10, 614.	5.8	78
15	Influence of Range Position on Locally Adaptive Geneâ€"Environment Associations in Populus Flowering Time Genes. Journal of Heredity, 2018, 109, 47-58.	1.0	20
16	How will climate novelty influence ecological forecasts? Using the Quaternary to assess future reliability. Global Change Biology, 2018, 24, 3575-3586.	4.2	47
17	Multiresponse algorithms for communityâ€level modelling: Review of theory, applications, and comparison to species distribution models. Methods in Ecology and Evolution, 2018, 9, 834-848.	2.2	39
18	The Past, Present, and Future of the Hemlock Woolly Adelgid (Adelges tsugae) and Its Ecological Interactions with Eastern Hemlock (Tsuga canadensis) Forests. Insects, 2018, 9, 172.	1.0	33

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19	Estimating tree phenology from high frequency tree movement data. Agricultural and Forest Meteorology, 2018, 263, 217-224.	1.9	14
20	Dominanceâ€"diversity relationships in ant communities differ with invasion. Global Change Biology, 2018, 24, 4614-4625.	4.2	39
21	Estimating the exposure of carnivorous plants to rapid climatic change. , 2018, , .		1
22	Comment on â€œGenomic signals of selection predict climate-driven population declines in a migratory birdâ€. Science, 2018, 361, .	6.0	19
23	A global database of ant species abundances. Ecology, 2017, 98, 883-884.	1.5	37
24	<i>GlobalAnts</i>: a new database on the geography of ant traits (Hymenoptera: Formicidae). Insect Conservation and Diversity, 2017, 10, 5-20.	1.4	119
25	Fieldâ€measured variables outperform derived alternatives in Maryland stream biodiversity models. Diversity and Distributions, 2017, 23, 1054-1066.	1.9	6
26	Golden Eagle fatalities and the continentalâ€scale consequences of local windâ€energy generation. Conservation Biology, 2017, 31, 406-415.	2.4	46
27	Downscaled and debiased climate simulations for North America from 21,000 years ago to 2100AD. Scientific Data, 2016, 3, 160048.	2.4	68
28	Geographic origins and population genetics of bats killed at windâ€energy facilities. Ecological Applications, 2016, 26, 1381-1395.	1.8	28
29	Controlled comparison of species- and community-level models across novel climates and communities. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152817.	1.2	50
30	Close agreement between pollenâ€based and forest inventoryâ€based models of vegetation turnover. Global Ecology and Biogeography, 2015, 24, 905-916.	2.7	16
31	Climate mediates the effects of disturbance on ant assemblage structure. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150418.	1.2	58
32	Modeling Species and Community Responses to Past, Present, and Future Episodes of Climatic and Ecological Change. Annual Review of Ecology, Evolution, and Systematics, 2015, 46, 343-368.	3.8	107
33	Ecological genomics meets communityâ€level modelling of biodiversity: mapping the genomic landscape of current and future environmental adaptation. Ecology Letters, 2015, 18, 1-16.	3.0	426
34	Modeling the spread of invasive species using dynamic network models. Biological Invasions, 2014, 16, 949-960.	1.2	39
35	Climate refugia: joint inference from fossil records, species distribution models and phylogeography. New Phytologist, 2014, 204, 37-54.	3.5	361
36	Soil properties and tree species drive ÃŸ-diversity of soil bacterial communities. Soil Biology and Biochemistry, 2014, 76, 201-209.	4.2	92

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37	MaxEnt versus MaxLike: empirical comparisons with ant species distributions. Ecosphere, 2013, 4, 1-15.	1.0	125
38	Space can substitute for time in predicting climate-change effects on biodiversity. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9374-9379.	3.3	551
39	Environmental and historical imprints on beta diversity: insights from variation in rates of species turnover along gradients. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20131201.	1.2	145
40	Should species distribution models account for spatial autocorrelation? A test of model projections across eight millennia of climate change. Global Ecology and Biogeography, 2013, 22, 760-771.	2.7	67
41	Modeling the climatic drivers of spatial patterns in vegetation composition since the Last Glacial Maximum. Ecography, 2013, 36, 460-473.	2.1	57
42	Climate Change and the Past, Present, and Future of Biotic Interactions. Science, 2013, 341, 499-504.	6.0	612
43	Potential Stream Density in Mid-Atlantic U.S. Watersheds. PLoS ONE, 2013, 8, e74819.	1.1	37
44	Modeling range dynamics in heterogeneous landscapes: invasion of the hemlock woolly adelgid in eastern North America. Ecological Applications, 2012, 22, 472-486.	1.8	64
45	Measuring ecological niche overlap from occurrence and spatial environmental data. Global Ecology and Biogeography, 2012, 21, 481-497.	2.7	1,130
46	Every Species Is an Insect (or Nearly So): On Insects, Climate Change, Extinction, and the Biological Unknown. , 2012, , 217-237.		3
47	Forest productivity and tree diversity relationships depend on ecological context within mid-Atlantic and Appalachian forests (USA). Forest Ecology and Management, 2011, 261, 1315-1324.	1.4	39
48	Global diversity in light of climate change: the case of ants. Diversity and Distributions, 2011, 17, 652-662.	1.9	87
49	Forecasting the future of biodiversity: a test of single- and multi-species models for ants in North America. Ecography, 2011, 34, 836-847.	2.1	81
50	Simulating the dispersal of hemlock woolly adelgid in the temperate forest understory. Entomologia Experimentalis Et Applicata, 2011, 141, 216-223.	0.7	12
51	Geography, topography, and history affect realizedâ€toâ€potential tree species richness patterns in Europe. Ecography, 2010, 33, 1070-1080.	2.1	49
52	Ecological boundary detection using Bayesian areal wombling. Ecology, 2010, 91, 3448-3455.	1.5	36
53	Observer bias and the detection of lowâ€density populations. Ecological Applications, 2009, 19, 1673-1679.	1.8	182
54	The projection of species distribution models and the problem of non-analog climate. Biodiversity and Conservation, 2009, 18, 2255-2261.	1.2	320

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55	Climatic drivers of hemispheric asymmetry in global patterns of ant species richness. Ecology Letters, 2009, 12, 324-333.	3.0	233
56	Dispersal traits linked to range size through range location, not dispersal ability, in Western Australian angiosperms. Global Ecology and Biogeography, 2009, 18, 596-606.	2.7	16
57	Intraspecific Variation in<i>Tsuga canadensis</i>Foliar Chemistry. Northeastern Naturalist, 2009, 16, 585-594.	0.1	8
58	Data sets matter, but so do evolution and ecology. Global Ecology and Biogeography, 2008, 17, 562-565.	2.7	25
59	Climate change, plant migration, and range collapse in a global biodiversity hotspot: the<i>Banksia</i>(Proteaceae) of Western Australia. Global Change Biology, 2008, 14, 1337-1352.	4.2	196
60	INSECTS MEDIATE THE EFFECTS OF PROPAGULE SUPPLY AND RESOURCE AVAILABILITY ON A PLANT INVASION. Ecology, 2007, 88, 2383-2391.	1.5	30
61	The biogeography of prediction error: why does the introduced range of the fire ant over-predict its native range?. Global Ecology and Biogeography, 2007, 16, 24-33.	2.7	300
62	Temperature, but not productivity or geometry, predicts elevational diversity gradients in ants across spatial grains. Global Ecology and Biogeography, 2007, 16, 640-649.	2.7	249
63	The biogeography of prediction error: why does the introduced range of the fire ant over-predict its native range?. Global Ecology and Biogeography, 2006, .	2.7	3
64	Characterizing ecosystem response to climate variability. Global Ecology and Biogeography, 2005, 14, 600-601.	2.7	0
65	Ecological niche models and the geography of biological invasions: a review and a novel application. , 2005, , 45-60.		9