Michael D Weiser

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Temperature mediates continental-scale diversity of microbes in forest soils. Nature Communications, 2016, 7, 12083.	5.8	419
2	EMPIRICAL EVALUATION OF NEUTRAL THEORY. Ecology, 2006, 87, 1411-1423.	1.5	322
3	The sizeâ€“grain hypothesis and interspecific scaling in ants. Functional Ecology, 1999, 13, 530-538.	1.7	291
4	The biogeography and filtering of woody plant functional diversity in North and South America. Global Ecology and Biogeography, 2012, 21, 798-808.	2.7	235
5	Climatic drivers of hemispheric asymmetry in global patterns of ant species richness. Ecology Letters, 2009, 12, 324-333.	3.0	233
6	The latitudinal species richness gradient in New World woody angiosperms is consistent with the tropical conservatism hypothesis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8125-8130.	3.3	198
7	Variation in above-ground forest biomass across broad climatic gradients. Global Ecology and Biogeography, 2011, 20, 744-754.	2.7	195
8	The energetic and carbon economic origins of leaf thermoregulation. Nature Plants, 2016, 2, 16129.	4.7	178
9	Plant Thermoregulation: Energetics, Traitâ€“Environment Interactions, and Carbon Economics. Trends in Ecology and Evolution, 2015, 30, 714-724.	4.2	154
10	Macroecology and macroevolution of the latitudinal diversity gradient in ants. Nature Communications, 2018, 9, 1778.	5.8	133
11	Plant geography upon the basis of functional traits: an example from eastern North American trees. Ecology, 2010, 91, 2234-2241.	1.5	127
12	Functional beta-diversity patterns reveal deterministic community assembly processes in eastern North American trees. Global Ecology and Biogeography, 2013, 22, 682-691.	2.7	122
13	<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
14	Ecological morphospace of New World ants. Ecological Entomology, 2006, 31, 131-142.	1.1	116
15	Ant Activity along Moisture Gradients in a Neotropical Forest1. Biotropica, 2000, 32, 703.	0.8	109
16	Tree heightâ€“diameter allometry across the United States. Ecology and Evolution, 2015, 5, 1193-1204.	0.8	108
17	Urban areas may serve as habitat and corridors for dry-adapted, heat tolerant species; an example from ants. Urban Ecosystems, 2011, 14, 135-163.	1.1	103
18	Strong influence of regional species pools on continent-wide structuring of local communities. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 266-274.	1.2	102

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19	Extreme genetic differences between queens and workers in hybridizingPogonomyrmexharvester ants. Proceedings of the Royal Society B: Biological Sciences, 2002, 269, 1871-1877.	1.2	96
20	Global diversity in light of climate change: the case of ants. Diversity and Distributions, 2011, 17, 652-662.	1.9	87
21	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
22	Biogeographic patterns of soil diazotrophic communities across six forests in the North America. Molecular Ecology, 2016, 25, 2937-2948.	2.0	76
23	Global models of ant diversity suggest regions where new discoveries are most likely are under disproportionate deforestation threat. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7368-7373.	3.3	70
24	Biogeographic patterns of microbial co-occurrence ecological networks in six American forests. Soil Biology and Biochemistry, 2020, 148, 107897.	4.2	68
25	Species richness, environmental heterogeneity and area: a case study based on land snails in Skyros archipelago (Aegean Sea, Greece). Journal of Biogeography, 2005, 32, 1727-1735.	1.4	66
26	Tracing the Rise of Ants - Out of the Ground. PLoS ONE, 2013, 8, e84012.	1.1	60
27	Global phylogenetic structure of the hyperdiverse ant genus <i>Pheidole</i> reveals the repeated evolution of macroecological patterns. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20141416.	1.2	55
28	Latitudinal patterns of range size and species richness of New World woody plants. Global Ecology and Biogeography, 2007, 16, 679-688.	2.7	53
29	Biogeochemistry drives diversity in the prokaryotes, fungi, and invertebrates of a Panama forest. Ecology, 2017, 98, 2019-2028.	1.5	46
30	Sodium coâ€limits and catalyzes macronutrients in a prairie food web. Ecology, 2017, 98, 315-320.	1.5	40
31	A global database of ant species abundances. Ecology, 2017, 98, 883-884.	1.5	37
32	The size?grain hypothesis: do macroarthropods see a fractal world?. Ecological Entomology, 2007, 32, 279-282.	1.1	36
33	Toward a theory for diversity gradients: the abundanceâ€"adaptation hypothesis. Ecography, 2018, 41, 255-264.	2.1	36
34	More individuals but fewer species: testing the â€˜more individuals hypothesisâ€™ in a diverse tropical fauna. Biology Letters, 2010, 6, 490-493.	1.0	35
35	Continental scale structuring of forest and soil diversity via functional traits. Nature Ecology and Evolution, 2019, 3, 1298-1308.	3.4	34
36	On the packing and filling of functional space in eastern North American tree assemblages. Ecography, 2014, 37, 1056-1062.	2.1	33

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37	Thermal diversity of North American ant communities: Cold tolerance but not heat tolerance tracks ecosystem temperature. Global Ecology and Biogeography, 2020, 29, 1486-1494.	2.7	33
38	Sodium limits litter decomposition rates in a subtropical forest: Additional tests of the sodium ecosystem respiration hypothesis. Applied Soil Ecology, 2015, 93, 98-104.	2.1	32
39	Phylogeny and the prediction of tree functional diversity across novel continental settings. Global Ecology and Biogeography, 2017, 26, 553-562.	2.7	31
40	Modeling Macroscopic Patterns in Ecology. Science, 2002, 295, 1835c-1837.	6.0	30
41	Clinal variation in colony breeding structure and level of inbreeding in the subterranean termites <i><scp>R</scp>eticulitermes flavipes</i> and <i><scp>R</scp>.Agrassei</i>. Molecular Ecology, 2013, 22, 1447-1462.	2.0	28
42	Canopy and litter ant assemblages share similar climateâ€“species density relationships. Biology Letters, 2010, 6, 769-772.	1.0	23
43	Taxonomic decomposition of the latitudinal gradient in species diversity of North American floras. Journal of Biogeography, 2018, 45, 418-428.	1.4	22
44	Ant Activity along Moisture Gradients in a Neotropical Forest¹. Biotropica, 2000, 32, 703-711.	0.8	21
45	Conservation implications of divergent global patterns of ant and vertebrate diversity. Diversity and Distributions, 2013, 19, 1084-1092.	1.9	20
46	Species energy and Thermal Performance Theory predict 20â€yr changes in ant community abundance and richness. Ecology, 2019, 100, e02888.	1.5	20
47	Thermal traits predict the winners and losers under climate change: an example from North American ant communities. Ecosphere, 2021, 12, e03645.	1.0	20
48	Constancy in Functional Space across a Species Richness Anomaly. American Naturalist, 2016, 187, E83-E92.	1.0	19
49	Temperature determines the diversity and structure of N₂Oâ€reducing microbial assemblages. Functional Ecology, 2018, 32, 1867-1878.	1.7	19
50	Energy, taxonomic aggregation, and the geography of ant abundance. Ecography, 2012, 35, 65-72.	2.1	17
51	Robust and simplified machine learning identification of pitfall trapâ€collected ground beetles at the continental scale. Ecology and Evolution, 2020, 10, 13143-13153.	0.8	15
52	Determinants of species abundance for eastern <scp>N</scp>orth <scp>A</scp>merican trees. Global Ecology and Biogeography, 2014, 23, 903-911.	2.7	13
53	Geographic Gradients. , 2009, , 38-58.		12
54	Warm and arid regions of the world are hotspots of superorganism complexity. Proceedings of the Royal Society B: Biological Sciences, 2022, 289, 20211899.	1.2	8

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55	Indoor evidence for the contribution of soil microbes and corresponding environments to the decomposition of Pinus massoniana and Castanopsis sclerophylla litter from Thousand Island Lake. European Journal of Soil Biology, 2016, 77, 44-52.	1.4	7
56	Strong biotic influences on regional patterns of climate regulation services. Global Biogeochemical Cycles, 2017, 31, 787-803.	1.9	6
57	Activity density at a continental scale: What drives invertebrate biomass moving across the soil surface?. Ecology, 2021, , e03542.	1.5	6
58	Robust metagenomic evidence that local assemblage richness increases with latitude in groundâ€active invertebrates of North America. Oikos, 2022, 2022, .	1.2	5
59	Correspondence: Reply to â€˜Analytical flaws in a continental-scale forest soil microbial diversity studyâ€™. Nature Communications, 2017, 8, 15583.	5.8	4
60	Meet the New Boss, Same as the Old Boss. Science, 2014, 343, 974-975.	6.0	2
61	Thermal disruption of soil bacterial assemblages decreases diversity and assemblage similarity. Ecosphere, 2019, 10, e02598.	1.0	2
62	Testing the role of body size and litter depth on invertebrate diversity across six forests in North America. Ecology, 2021, , e03601.	1.5	1
63	Species Energy and Thermal Performance Theory Predict 20â€Year Changes in Ant Community Abundance and Richness. Bulletin of the Ecological Society of America, 2020, 101, e01623.	0.2	0