Meghan L Avolio

List of Publications by Year
in descending order

64 papers	2,909 citations	201385 27 h-index	182168 51 g-index
66 all docs	66 docs citations	66 times ranked	3871 citing authors

#	Article	IF	Citations
1	Characterizing differences in precipitation regimes of extreme wet and dry years: implications for climate change experiments. Global Change Biology, 2015, 21, 2624-2633.	4.2	233
2	Changes in plant community composition, not diversity, during a decade of nitrogen and phosphorus additions drive aboveâ€ground productivity in a tallgrass prairie. Journal of Ecology, 2014, 102, 1649-1660.	1.9	145
3	Human and biophysical legacies shape contemporary urban forests: A literature synthesis. Urban Forestry and Urban Greening, 2018, 31, 157-168.	2.3	141
4	Global change effects on plant communities are magnified by time and the number of global change factors imposed. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17867-17873.	3.3	141
5	Change in dominance determines herbivore effects on plant biodiversity. Nature Ecology and Evolution, 2018, 2, 1925-1932.	3.4	140
6	Asynchrony among local communities stabilises ecosystem function of metacommunities. Ecology Letters, 2017, 20, 1534-1545.	3.0	136
7	Pushing precipitation to the extremes in distributed experiments: recommendations for simulating wet and dry years. Global Change Biology, 2017, 23, 1774-1782.	4.2	132
8	Demystifying dominant species. New Phytologist, 2019, 223, 1106-1126.	3.5	125
9	Biodiverse cities: the nursery industry, homeowners, and neighborhood differences drive urban tree composition. Ecological Monographs, 2018, 88, 259-276.	2.4	111
10	Understanding preferences for tree attributes: the relative effects of socio-economic and local environmental factors. Urban Ecosystems, 2015, 18, 73-86.	1.1	84
11	Continental-scale homogenization of residential lawn plant communities. Landscape and Urban Planning, 2017, 165, 54-63.	3.4	82
12	A comprehensive approach to analyzing community dynamics using rank abundance curves. Ecosphere, 2019, 10, e02881.	1.0	79
13	Ecological homogenization of residential macrosystems. Nature Ecology and Evolution, 2017, 1, 191.	3.4	69
14	Homogenization of plant diversity, composition, and structure in North American urban yards. Ecosphere, 2018, 9, e02105.	1.0	68
15	Nitrogen transport in the ectomycorrhiza association: The Hebeloma cylindrosporumâ€"Pinus pinaster model. Phytochemistry, 2007, 68, 41-51.	1.4	67
16	Climate tolerances and trait choices shape continental patterns of urban tree biodiversity. Global Ecology and Biogeography, 2016, 25, 1367-1376.	2.7	64
17	Tree diversity in southern California's urban forest: the interacting roles of social and environmental variables. Frontiers in Ecology and Evolution, 2015, 3, .	1.1	63
18	Explaining temporal variation in above-ground productivity in a mesic grassland: the role of climate and flowering. Journal of Ecology, 2011, 99, 1250-1262.	1.9	56

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19	Temporal heterogeneity increases with spatial heterogeneity in ecological communities. Ecology, 2018, 99, 858-865.	1.5	56
20	Testing conceptual models of early plant succession across a disturbance gradient. Journal of Ecology, 2019, 107, 517-530.	1.9	54
21	A framework for quantifying the magnitude and variability of community responses to global change drivers. Ecosphere, 2015, 6, 1-14.	1.0	51
22	Genetic diversity of a dominant C4 grass is altered with increased precipitation variability. Oecologia, 2013, 171, 571-581.	0.9	47
23	Nutrient additions cause divergence of tallgrass prairie plant communities resulting in loss of ecosystem stability. Journal of Ecology, 2016, 104, 1478-1487.	1.9	43
24	Toward a better integration of biological data from precipitation manipulation experiments into Earth system models. Reviews of Geophysics, 2014, 52, 412-434.	9.0	39
25	Urban plant diversity in Los Angeles, California: Species and functional type turnover in cultivated landscapes. Plants People Planet, 2020, 2, 144-156.	1.6	35
26	Residential yard management and landscape cover affect urban bird community diversity across the continental USA. Ecological Applications, 2021, 31, e02455.	1.8	35
27	Municipal regulation of residential landscapes across US cities: Patterns and implications for landscape sustainability. Journal of Environmental Management, 2020, 275, 111132.	3.8	34
28	Drivers of plant species richness and phylogenetic composition in urban yards at the continental scale. Landscape Ecology, 2019, 34, 63-77.	1.9	31
29	Mass ratio effects underlie ecosystem responses to environmental change. Journal of Ecology, 2020, 108, 855-864.	1.9	31
30	Mechanisms of selection: Phenotypic differences among genotypes explain patterns of selection in a dominant species. Ecology, 2013, 94, 953-965.	1.5	30
31	Causal assumptions and causal inference in ecological experiments. Trends in Ecology and Evolution, 2021, 36, 1141-1152.	4.2	30
32	Determinants of community compositional change are equally affected by global change. Ecology Letters, 2021, 24, 1892-1904.	3.0	27
33	Measuring genetic diversity in ecological studies. Plant Ecology, 2012, 213, 1105-1115.	0.7	26
34	Ambient changes exceed treatment effects on plant species abundance in global change experiments. Global Change Biology, 2018, 24, 5668-5679.	4.2	25
35	Contribution of nonâ€native plants to the phylogenetic homogenization of U.S. yard floras. Ecosphere, 2019, 10, e02638.	1.0	24
36	Functional expression of the green fluorescent protein in the ectomycorrhizal model fungus Hebeloma cylindrosporum. Mycorrhiza, 2006, 16, 437-442.	1.3	23

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37	Assessing Fine-Scale Genotypic Structure of a Dominant Species in Native Grasslands. American Midland Naturalist, 2011, 165, 211-224.	0.2	23
38	Linking yard plant diversity to homeownersâ€™ landscaping priorities across the U.S. Landscape and Urban Planning, 2020, 196, 103730.	3.4	23
39	Temperate deciduous forests embedded across developed landscapes: Younger forests harbour invasive plants and urban forests maintain native plants. Journal of Ecology, 2020, 108, 2366-2375.	1.9	23
40	Predicting tree species richness in urban forests. Urban Ecosystems, 2017, 20, 839-849.	1.1	20
41	A multi-city comparison of front and backyard differences in plant species diversity and nitrogen cycling in residential landscapes. Landscape and Urban Planning, 2018, 178, 102-111.	3.4	20
42	Taxonomic, phylogenetic, and functional composition and homogenization of residential yard vegetation with contrasting management. Landscape and Urban Planning, 2020, 202, 103877.	3.4	19
43	Time Is Not Money: Income Is More Important Than Lifestage for Explaining Patterns of Residential Yard Plant Community Structure and Diversity in Baltimore. Frontiers in Ecology and Evolution, 2020, 8, .	1.1	19
44	Incorporating human behaviors into theories of urban community assembly and species coexistence. Oikos, 2021, 130, 1849-1864.	1.2	19
45	Ectomycorrhizal responses to organic and inorganic nitrogen sources when associating with two host species. Mycological Research, 2009, 113, 897-907.	2.5	16
46	Intra-specific responses of a dominant C4 grass to altered precipitation patterns. Plant Ecology, 2013, 214, 1377-1389.	0.7	16
47	Invasibility of a mesic grassland depends on the timeâ€scale of fluctuating resources. Journal of Ecology, 2015, 103, 1538-1546.	1.9	14
48	Linking gene regulation, physiology, and plant biomass allocation in Andropogon gerardii in response to drought. Plant Ecology, 2018, 219, 1-15.	0.7	14
49	Correlations between genetic and species diversity: effects of resource quantity and heterogeneity. Journal of Vegetation Science, 2013, 24, 1185-1194.	1.1	12
50	Regulation of genes involved in nitrogen utilization on different C/N ratios and nitrogen sources in the model ectomycorrhizal fungus Hebeloma cylindrosporum. Mycorrhiza, 2012, 22, 515-524.	1.3	11
51	The effect of genotype richness and genomic dissimilarity of<i>Andropogon gerardii</i>on invasion resistance and productivity. Plant Ecology and Diversity, 2015, 8, 61-71.	1.0	10
52	Plant biodiversity in residential yards is influenced by peopleâ€™s preferences for variety but limited by their income. Landscape and Urban Planning, 2021, 214, 104149.	3.4	10
53	Climate and lawn management interact to control C4plant distribution in residential lawns across seven U.S. cities. Ecological Applications, 2019, 29, e01884.	1.8	8
54	Temporal variability in production is not consistently affected by global change drivers across herbaceous-dominated ecosystems. Oecologia, 2020, 194, 735-744.	0.9	8

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55	Grand challenges in biodiversityâ€"ecosystem functioning research in the era of scienceâ€"policy platforms require explicit consideration of feedbacks. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210783.	1.2	8
56	Gene expression patterns of two dominant tallgrass prairie species differ in response to warming and altered precipitation. Scientific Reports, 2016, 6, 25522.	1.6	7
57	Codominant grasses differ in gene expression under experimental climate extremes in native tallgrass prairie. PeerJ, 2018, 6, e4394.	0.9	7
58	Improving collaborations between empiricists and modelers to advance grassland community dynamics in ecosystem models. New Phytologist, 2020, 228, 1467-1471.	3.5	5
59	Do tradeâ€offs govern plant speciesâ€™ responses to different global change treatments?. Ecology, 2022, 103, e3626.	1.5	5
60	Richness, not evenness, varies across water availability gradients in grassy biomes on five continents. Oecologia, 2022, 199, 649-659.	0.9	5
61	Nutrient addition increases biomass of soil fungi: evidence from a South African grassland. South African Journal of Plant and Soil, 2017, 34, 71-73.	0.4	3
62	More than Green: tree structure and biodiversity patterns differ across canopy change regimes in Baltimoreâ€™s urban forest. Urban Forestry and Urban Greening, 2021, 65, 127365.	2.3	3
63	Urban net primary production: Concepts, field methods, and <scp>Baltimore, Maryland, USA</scp> case study. Ecological Applications, 2022, 32, e2562.	1.8	3
64	Tree communities in Baltimore differ by land use type, but change little over time. Ecosphere, 2022, 13, .	1.0	1