Mark Vellend

List of Publications by Year
in descending order

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Version: 2024-02-01

75 papers	15,455 citations	50244 46 h-index	76872 74 g-index
80 all docs	80 docs citations	80 times ranked	19350 citing authors

#	Article	IF	Citations
1	Navigating the multiple meanings of Î² diversity: a roadmap for the practicing ecologist. Ecology Letters, 2011, 14, 19-28.	3.0	1,899
2	Conceptual Synthesis in Community Ecology. Quarterly Review of Biology, 2010, 85, 183-206.	0.0	1,875
3	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	4.2	1,038
4	Using null models to disentangle variation in community dissimilarity from variation in Î±-diversity. Ecosphere, 2011, 2, art24.	1.0	698
5	Disentangling the Drivers of Î² Diversity Along Latitudinal and Elevational Gradients. Science, 2011, 333, 1755-1758.	6.0	617
6	Biodiversity-Ecosystem Function Research: Is It Relevant to Conservation?. Annual Review of Ecology, Evolution, and Systematics, 2005, 36, 267-294.	3.8	588
7	Microclimate moderates plant responses to macroclimate warming. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18561-18565.	3.3	523
8	Global meta-analysis reveals no net change in local-scale plant biodiversity over time. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19456-19459.	3.3	464
9	Plant functional trait change across a warming tundra biome. Nature, 2018, 562, 57-62.	13.7	451
10	Connections between species diversity and genetic diversity. Ecology Letters, 2005, 8, 767-781.	3.0	424
11	EXTINCTION DEBT OF FOREST PLANTS PERSISTS FOR MORE THAN A CENTURY FOLLOWING HABITAT FRAGMENTATION. Ecology, 2006, 87, 542-548.	1.5	405
12	The geography of biodiversity change in marine and terrestrial assemblages. Science, 2019, 366, 339-345.	6.0	385
13	Recovery of forest plant communities in post-agricultural landscapes. Frontiers in Ecology and the Environment, 2005, 3, 243-250.	1.9	373
14	Is habitat fragmentation bad for biodiversity?. Biological Conservation, 2019, 230, 179-186.	1.9	329
15	Assessing the relative importance of neutral stochasticity in ecological communities. Oikos, 2014, 123, 1420-1430.	1.2	310
16	Community assembly along a soil depth gradient: contrasting patterns of plant trait convergence and divergence in <scp>a M</scp>editerranean rangeland. Journal of Ecology, 2012, 100, 1422-1433.	1.9	303
17	Homogenization of forest plant communities and weakening of species?environment relationships via agricultural land use. Journal of Ecology, 2007, 95, 565-573.	1.9	300
18	Eco-evolutionary responses of biodiversity to climate change. Nature Climate Change, 2012, 2, 747-751.	8.1	262

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19	DISPERSAL OF TRILLIUM SEEDS BY DEER: IMPLICATIONS FOR LONG-DISTANCE MIGRATION OF FOREST HERBS. Ecology, 2003, 84, 1067-1072.	1.5	206
20	Species Diversity and Genetic Diversity: Parallel Processes and Correlated Patterns. American Naturalist, 2005, 166, 199-215.	1.0	193
21	Plant Biodiversity Change Across Scales During the Anthropocene. Annual Review of Plant Biology, 2017, 68, 563-586.	8.6	179
22	Quantifying temporal change in biodiversity: challenges and opportunities. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20121931.	1.2	178
23	PARALLEL EFFECTS OF LAND-USE HISTORY ON SPECIES DIVERSITY AND GENETIC DIVERSITY OF FOREST HERBS. Ecology, 2004, 85, 3043-3055.	1.5	173
24	Species richness change across spatial scales. Oikos, 2019, 128, 1079-1091.	1.2	160
25	Environmental DNA Time Series in Ecology. Trends in Ecology and Evolution, 2018, 33, 945-957.	4.2	152
26	Effects of exotic species on evolutionary diversification. Trends in Ecology and Evolution, 2007, 22, 481-488.	4.2	144
27	Historical ecology: Using unconventional data sources to test for effects of global environmental change. American Journal of Botany, 2013, 100, 1294-1305.	0.8	143
28	THE CONSEQUENCES OF GENETIC DIVERSITY IN COMPETITIVE COMMUNITIES. Ecology, 2006, 87, 304-311.	1.5	141
29	Non-climatic constraints on upper elevational plant range expansion under climate change. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141779.	1.2	137
30	Genetic diversity in widespread species is not congruent with species richness in alpine plant communities. Ecology Letters, 2012, 15, 1439-1448.	3.0	135
31	Elevational shifts, biotic homogenization and time lags in vegetation change during 40 years of climate warming. Ecography, 2015, 38, 546-555.	2.1	129
32	Island Biogeography of Genes and Species. American Naturalist, 2003, 162, 358-365.	1.0	127
33	Drawing ecological inferences from coincident patterns of populationâ€•and communityâ€level biodiversity. Molecular Ecology, 2014, 23, 2890-2901.	2.0	121
34	HABITAT LOSS INHIBITS RECOVERY OF PLANT DIVERSITY AS FORESTS REGROW. Ecology, 2003, 84, 1158-1164.	1.5	111
35	METAPOPULATION DYNAMICS IN CHANGING LANDSCAPES: A NEW SPATIALLY REALISTIC MODEL FOR FOREST PLANTS. Ecology, 2004, 85, 3302-3312.	1.5	108
36	Estimates of local biodiversity change over time stand up to scrutiny. Ecology, 2017, 98, 583-590.	1.5	106

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37	Garden plants get a head start on climate change. Frontiers in Ecology and the Environment, 2008, 6, 212-216.	1.9	100
38	Stronger influence of anthropogenic disturbance than climate change on century-scale compositional changes in northern forests. Nature Communications, 2019, 10, 1265.	5.8	98
39	Environmental causes and consequences of forest clearance and agricultural abandonment in central New York, USA. Journal of Biogeography, 2005, 32, 439-452.	1.4	95
40	Global environmental change effects on plant community composition trajectories depend upon management legacies. Global Change Biology, 2018, 24, 1722-1740.	4.2	93
41	Combining Biodiversity Resurveys across Regions to Advance Global Change Research. BioScience, 2017, 67, 73-83.	2.2	89
42	Gains in native species promote biotic homogenization over four decades in a humanâ€dominated landscape. Journal of Ecology, 2013, 101, 1542-1551.	1.9	79
43	Effects of genotype identity and diversity on the invasiveness and invasibility of plant populations. Oecologia, 2010, 162, 371-381.	0.9	67
44	Using subsets of species in biodiversity surveys. Journal of Applied Ecology, 2008, 45, 161-169.	1.9	66
45	Understanding context dependence in the contribution of intraspecific variation to community traitâ€“environment matching. Ecology, 2015, 96, 2912-2922.	1.5	62
46	Predicting the sensitivity of butterfly phenology to temperature over the past century. Global Change Biology, 2014, 20, 504-514.	4.2	56
47	The ice age ecologist: testing methods for reserve prioritization during the last global warming. Global Ecology and Biogeography, 2013, 22, 289-301.	2.7	47
48	Flowering time of butterfly nectar food plants is more sensitive to temperature than the timing of butterfly adult flight. Journal of Animal Ecology, 2015, 84, 1311-1321.	1.3	47
49	Defining Historical Baselines for Conservation: Ecological Changes Since European Settlement on Vancouver Island, Canada. Conservation Biology, 2010, 24, 1559-1568.	2.4	46
50	High beta diversity among small islands is due to environmental heterogeneity rather than ecological drift. Journal of Biogeography, 2018, 45, 2252-2261.	1.4	44
51	The Biodiversity Conservation Paradox. American Scientist, 2017, 105, 94.	0.1	43
52	Environmentally biased fragmentation of oak savanna habitat on southeastern Vancouver Island, Canada. Biological Conservation, 2008, 141, 2576-2584.	1.9	42
53	Longâ€term community change: bryophytes are more responsive than vascular plants to nitrogen deposition and warming. Journal of Vegetation Science, 2017, 28, 1220-1229.	1.1	42
54	Local environment rather than past climate determines community composition of mountain stream macroinvertebrates across Europe. Molecular Ecology, 2017, 26, 6085-6099.	2.0	41

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55	Directional turnover towards largerâ€ranged plants over time and across habitats. Ecology Letters, 2022, 25, 466-482.	3.0	39
56	Multidisciplinary synthesis of long-term humanâ€“ecosystem interactions: A perspective from the Garry oak ecosystem of British Columbia. Biological Conservation, 2013, 166, 293-300.	1.9	35
57	Abundance, rarity and invasion debt among exotic species in a patchy ecosystem. Biological Invasions, 2013, 15, 707-716.	1.2	35
58	Soil abiotic and biotic properties constrain the establishment of a dominant temperate tree into boreal forests. Journal of Ecology, 2020, 108, 931-944.	1.9	33
59	Characterizing the contribution of plasticity and genetic differentiation to communityâ€level trait responses to environmental change. Ecology and Evolution, 2018, 8, 3895-3907.	0.8	32
60	Increased seedling establishment via enemy release at the upper elevational range limit of sugar maple. Ecology, 2016, 97, 3058-3069.	1.5	28
61	â€˜Structured' beta diversity increases with climatic productivity in a classic dataset. Ecosphere, 2011, 2, art11.	1.0	27
62	Four decades of plant community change along a continental gradient of warming. Global Change Biology, 2019, 25, 1629-1641.	4.2	26
63	Landscape factors and regional differences in recovery rates of herb layer richness in Flanders (Belgium). Landscape Ecology, 2006, 21, 1109-1118.	1.9	25
64	Historical anthropogenic disturbances influence patterns of non-native earthworm and plant invasions in a temperate primary forest. Biological Invasions, 2015, 17, 1267-1281.	1.2	23
65	Ecological Differentiation among Genotypes of Dandelions (Taraxacum officinale). Weed Science, 2009, 57, 410-416.	0.8	19
66	Scaleâ€dependent changes in tree diversity over more than a century in eastern Canada: Landscape diversification and regional homogenization. Journal of Ecology, 2021, 109, 273-283.	1.9	14
67	Sex and space destabilize intransitive competition within and between species. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 1857-1864.	1.2	13
68	Herbivory and pollen limitation at the upper elevational range limit of two forest understory plants of eastern North America. Ecology and Evolution, 2018, 8, 892-903.	0.8	11
69	How the relationship between vegetation cover and land-cover variance constrains biodiversity in a human dominated world. Landscape Ecology, 2021, 36, 3097-3104.	1.9	10
70	Setting conservation priorities when what you see is not what you get. Animal Conservation, 2013, 16, 14-15.	1.5	7
71	Large herbivores trigger spatiotemporal changes in forest plant diversity. Ecology, 2022, 103, e3739.	1.5	7
72	Thaw circles around tree trunks provide spring ephemeral plants with a big head start on the growing season. Ecology, 2017, 98, 3224-3226.	1.5	6

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73	Changes in landscapeâ€scale tree biodiversity in the northâ€eastern USA since European settlement. Global Ecology and Biogeography, 2021, 30, 666-673.	2.7	6
74	Causes and consequences of deer browsing on red trillium (Trillium erectum) along an elevational gradient. Botany, 2020, 98, 469-478.	0.5	2
75	Tree biodiversity in northern forests shows temporal stability over 35â€‰years at different scales, levels, and dimensions. Journal of Ecology, 0, , .	1.9	0