William D Pearse

List of Publications by Year
in descending order

53 papers	3,272 citations	257101 24 h-index	182168 51 g-index
76 all docs	76 docs citations	76 times ranked	6996 citing authors

#	Article	IF	Citations
1	Functional traits, the phylogeny of function, and ecosystem service vulnerability. Ecology and Evolution, 2013, 3, 2958-2975.	0.8	424
2	Using ecological thresholds to evaluate the costs and benefits of set-asides in a biodiversity hotspot. Science, 2014, 345, 1041-1045.	6.0	337
3	Multiple facets of biodiversity drive the diversityâ€“stability relationship. Nature Ecology and Evolution, 2018, 2, 1579-1587.	3.4	296
4	Global imprint of mycorrhizal fungi on whole-plant nutrient economics. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23163-23168.	3.3	169
5	pez: phylogenetics for the environmental sciences. Bioinformatics, 2015, 31, 2888-2890.	1.8	146
6	Prioritizing phylogenetic diversity captures functional diversity unreliably. Nature Communications, 2018, 9, 2888.	5.8	144
7	Open Science principles for accelerating trait-based science across the Tree of Life. Nature Ecology and Evolution, 2020, 4, 294-303.	3.4	144
8	On the relationship between phylogenetic diversity and trait diversity. Ecology, 2018, 99, 1473-1479.	1.5	136
9	SoilTemp: A global database of nearâ€surface temperature. Global Change Biology, 2020, 26, 6616-6629.	4.2	122
10	Global biogeography of seed dormancy is determined by seasonality and seed size: a case study in the legumes. New Phytologist, 2017, 214, 1527-1536.	3.5	112
11	Temperature and population density influence SARS-CoV-2 transmission in the absence of nonpharmaceutical interventions. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	95
12	phyloGenerator: an automated phylogeny generation tool for ecologists. Methods in Ecology and Evolution, 2013, 4, 692-698.	2.2	85
13	A statistical estimator for determining the limits of contemporary and historic phenology. Nature Ecology and Evolution, 2017, 1, 1876-1882.	3.4	81
14	What we (don't) know about global plant diversity. Ecography, 2019, 42, 1819-1831.	2.1	79
15	Convergence of microclimate in residential landscapes across diverse cities in the United States. Landscape Ecology, 2016, 31, 101-117.	1.9	78
16	Herbivores at the highest risk of extinction among mammals, birds, and reptiles. Science Advances, 2020, 6, eabb8458.	4.7	73
17	Homogenization of plant diversity, composition, and structure in North American urban yards. Ecosphere, 2018, 9, e02105.	1.0	68
18	Assessing the utility of conserving evolutionary history. Biological Reviews, 2019, 94, 1740-1760.	4.7	65

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19	Towards an ecoâ€phylogenetic framework for infectious disease ecology. Biological Reviews, 2018, 93, 950-970.	4.7	63
20	Functional biogeography of angiosperms: life at the extremes. New Phytologist, 2018, 218, 1697-1709.	3.5	61
21	Bee phenology is predicted by climatic variation and functional traits. Ecology Letters, 2020, 23, 1589-1598.	3.0	55
22	Taking the Long View: Integrating Recorded, Archeological, Paleoecological, and Evolutionary Data into Ecological Restoration. International Journal of Plant Sciences, 2016, 177, 90-102.	0.6	48
23	Global macroevolution and macroecology of passerine song. Evolution; International Journal of Organic Evolution, 2018, 72, 944-960.	1.1	34
24	Combining phylogeny and coâ€occurrence to improve single species distribution models. Global Ecology and Biogeography, 2017, 26, 740-752.	2.7	33
25	Evolution of mammalian migrations for refuge, breeding, and food. Ecology and Evolution, 2017, 7, 5891-5900.	0.8	30
26	Horticultural availability and homeowner preferences drive plant diversity and composition in urban yards. Ecological Applications, 2020, 30, e02082.	1.8	30
27	Building up biogeography: Pattern to process. Journal of Biogeography, 2018, 45, 1223-1230.	1.4	25
28	Barro Colorado Island's phylogenetic assemblage structure across fine spatial scales and among clades of different ages. Ecology, 2013, 94, 2861-2872.	1.5	24
29	Metrics and Models of Community Phylogenetics. , 2014, , 451-464.		23
30	Macrophenology: insights into the broadâ€scale patterns, drivers, and consequences of phenology. American Journal of Botany, 2021, 108, 2112-2126.	0.8	20
31	The effect of phylogenetic uncertainty and imputation on <scp>EDGE</scp> Scores. Animal Conservation, 2019, 22, 527-536.	1.5	19
32	Beyond the EDGE with EDAM: Prioritising British Plant Species According to Evolutionary Distinctiveness, and Accuracy and Magnitude of Decline. PLoS ONE, 2015, 10, e0126524.	1.1	14
33	The interaction of phylogeny and community structure: Linking the community composition and trait evolutionÂof clades. Global Ecology and Biogeography, 2019, 28, 1499-1511.	2.7	14
34	The hidden value of trees: Quantifying the ecosystem services of tree lineages and their major threats across the contiguous US. , 2022, 1, e0000010.		14
35	Reply to: â€œGlobal conservation of phylogenetic diversity captures more than just functional diversityâ€• Nature Communications, 2019, 10, 858.	5.8	13
36	The Use of EDGE (Evolutionary Distinct Globally Endangered) and EDGE-Like Metrics to Evaluate Taxa for Conservation. , 2018, , 27-39.		12

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37	Cryptic diversity in the model fern genus Ceratopteris (Pteridaceae). Molecular Phylogenetics and Evolution, 2020, 152, 106938.	1.2	11
38	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
39	Phylogenetic generalized linear mixed modeling presents novel opportunities for ecoâ€evolutionary synthesis. Oikos, 2021, 130, 669-679.	1.2	6
40	Commercial Plant Production and Consumption Still Follow the Latitudinal Gradient in Species Diversity despite Economic Globalization. PLoS ONE, 2016, 11, e0163002.	1.1	6
41	There and Back Again: Reticulate Evolution in Ceratopteris. American Fern Journal, 2020, 110, .	0.2	6
42	Predicting catchment suitability for biodiversity at national scales. Water Research, 2022, 221, 118764.	5.3	5
43	Suppdata: Downloading Supplementary Data from Published Manuscripts. Journal of Open Source Software, 2018, 3, 721.	2.0	4
44	Fractal triads efficiently sample ecological diversity and processes across spatial scales. Oikos, 2021, 130, 2136-2147.	1.2	4
45	Conserving Brazil's Atlantic forestsâ€"Response. Science, 2014, 346, 1193-1193.	6.0	3
46	Complexity is complicated and so too is comparing complexity metricsâ€A response to Mikula etÂal. (2018). Evolution; International Journal of Organic Evolution, 2018, 72, 2836-2838.	1.1	3
47	Declining Summertime pCO₂ in Tundra Lakes in a Granitic Landscape. Global Biogeochemical Cycles, 2021, 35, e2020GB006850.	1.9	3
48	Strong trait correlation and phylogenetic signal in North American ground beetle (Carabidae) morphology. Ecosphere, 2021, 12, .	1.0	3
49	Response to Comment on â€œUsing ecological thresholds to evaluate the costs and benefits of set-asides in a biodiversity hotspotâ€. Science, 2015, 347, 731-731.	6.0	2
50	Phylogenetic diversity efficiently and accurately prioritizes conservation of aquatic macroinvertebrate communities. Ecosphere, 2021, 12, e03383.	1.0	1
51	Saving the Forest from the Trees: Expert Views on Funding Restoration of Northern Arizona Ponderosa Pine Forests through Registered Carbon Offsets. Forests, 2021, 12, 1119.	0.9	1
52	Preserving evolutionary history with improved confidence. Animal Conservation, 2019, 22, 541-542.	1.5	0
53	SymbiotaR2: An R Package for Accessing Symbiota2 Data. Journal of Open Source Software, 2020, 5, 2917.	2.0	0