

# Steven W Kembel

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83  
papers

11,763  
citations

39  
h-index

94  
g-index

94  
ext. papers

14,412  
ext. citations

6.7  
avg, IF

6.5  
L-index

#	Paper	IF	Citations
83	Picante: R tools for integrating phylogenies and ecology. <i>Bioinformatics</i> , <b>2010</b> , 26, 1463-4	7.2	3021
82	The merging of community ecology and phylogenetic biology. <i>Ecology Letters</i> , <b>2009</b> , 12, 693-715	10	1468
81	Phylocom: software for the analysis of phylogenetic community structure and trait evolution. <i>Bioinformatics</i> , <b>2008</b> , 24, 2098-100	7.2	1281
80	A global meta-analysis of the relative extent of intraspecific trait variation in plant communities. <i>Ecology Letters</i> , <b>2015</b> , 18, 1406-19	10	485
79	Incorporating 16S gene copy number information improves estimates of microbial diversity and abundance. <i>PLoS Computational Biology</i> , <b>2012</b> , 8, e1002743	5	303
78	Relationships between phyllosphere bacterial communities and plant functional traits in a neotropical forest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 13715-20	11.5	302
77	Architectural design influences the diversity and structure of the built environment microbiome. <i>ISME Journal</i> , <b>2012</b> , 6, 1469-79	11.9	302
76	The phylogenetic structure of a neotropical forest tree community. <i>Ecology</i> , <b>2006</b> , 87, S86-99	4.6	302
75	Disentangling niche and neutral influences on community assembly: assessing the performance of community phylogenetic structure tests. <i>Ecology Letters</i> , <b>2009</b> , 12, 949-60	10	281
74	Phylogenetic diversity metrics for ecological communities: integrating species richness, abundance and evolutionary history. <i>Ecology Letters</i> , <b>2010</b> , 13, 96-105	10	273
73	Does phylogenetic relatedness influence the strength of competition among vascular plants?. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , <b>2008</b> , 10, 41-50	3	228
72	Phylogenetic community structure and phylogenetic turnover across space and edaphic gradients in western Amazonian tree communities. <i>Ecography</i> , <b>2011</b> , 34, 552-565	6.5	204
71	Indoor airborne bacterial communities are influenced by ventilation, occupancy, and outdoor air source. <i>Indoor Air</i> , <b>2014</b> , 24, 41-8	5.4	197
70	Relationship between cystic fibrosis respiratory tract bacterial communities and age, genotype, antibiotics and <i>Pseudomonas aeruginosa</i> . <i>Environmental Microbiology</i> , <b>2010</b> , 12, 1293-303	5.2	183
69	Global diversity of drought tolerance and grassland climate-change resilience. <i>Nature Climate Change</i> , <b>2013</b> , 3, 63-67	21.4	173
68	Plant phenotypic plasticity belowground: a phylogenetic perspective on root foraging trade-offs. <i>American Naturalist</i> , <b>2005</b> , 166, 216-30	3.7	173
67	Leaf bacterial diversity mediates plant diversity and ecosystem function relationships. <i>Nature</i> , <b>2017</b> , 546, 145-147	50.4	161

66	Climate, soil and plant functional types as drivers of global fine-root trait variation. <i>Journal of Ecology</i> , <b>2017</b> , 105, 1182-1196	6	155
65	Global marine bacterial diversity peaks at high latitudes in winter. <i>ISME Journal</i> , <b>2013</b> , 7, 1669-77	11.9	141
64	Architectural design drives the biogeography of indoor bacterial communities. <i>PLoS ONE</i> , <b>2014</b> , 9, e87093	3.7	129
63	Host species identity, site and time drive temperate tree phyllosphere bacterial community structure. <i>Microbiome</i> , <b>2016</b> , 4, 27	16.6	121
62	Plant traits and taxonomy drive host associations in tropical phyllosphere fungal communities. <i>Botany</i> , <b>2014</b> , 92, 303-311	1.3	108
61	Bacterial communities on classroom surfaces vary with human contact. <i>Microbiome</i> , <b>2014</b> , 2, 7	16.6	99
60	Improving the scale and precision of hypotheses to explain root foraging ability. <i>Annals of Botany</i> , <b>2008</b> , 101, 1295-301	4.1	93
59	Drawing ecological inferences from coincident patterns of population- and community-level biodiversity. <i>Molecular Ecology</i> , <b>2014</b> , 23, 2890-901	5.7	91
58	Shoot, but not root, competition reduces community diversity in experimental mesocosms. <i>Journal of Ecology</i> , <b>2009</b> , 97, 155-163	6	90
57	A Floristic Study of the White-Sand Forests of Peru <sup>1</sup> . <i>Annals of the Missouri Botanical Garden</i> , <b>2010</b> , 97, 283-305	1.8	84
56	Paleotemperature proxies from leaf fossils reinterpreted in light of evolutionary history. <i>PLoS ONE</i> , <b>2010</b> , 5, e15161	3.7	83
55	Differential genetic influences on competitive effect and response in <i>Arabidopsis thaliana</i> . <i>Journal of Ecology</i> , <b>2005</b> , 93, 958-967	6	82
54	Ecology in the age of DNA barcoding: the resource, the promise and the challenges ahead. <i>Molecular Ecology Resources</i> , <b>2014</b> , 14, 221-32	8.4	80
53	Experimental evaluation of the importance of colonization history in early-life gut microbiota assembly. <i>ELife</i> , <b>2018</b> , 7,	8.9	78
52	Independent evolution of leaf and root traits within and among temperate grassland plant communities. <i>PLoS ONE</i> , <b>2011</b> , 6, e19992	3.7	73
51	The phylogenetic diversity of metagenomes. <i>PLoS ONE</i> , <b>2011</b> , 6, e23214	3.7	67
50	In situ phylogenetic structure and diversity of wild Bradyrhizobium communities. <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 4727-35	4.8	62
49	PhyloTUTU: a high-throughput procedure quantifies microbial community diversity and resolves novel taxa from metagenomic data. <i>PLoS Computational Biology</i> , <b>2011</b> , 7, e1001061	5	62

48	Evolution of the indoor biome. <i>Trends in Ecology and Evolution</i> , <b>2015</b> , 30, 223-32	10.9	61
47	Flowering phenology as a functional trait in a tallgrass prairie. <i>New Phytologist</i> , <b>2012</b> , 193, 673-682	9.8	61
46	Tree phyllosphere bacterial communities: exploring the magnitude of intra- and inter-individual variation among host species. <i>PeerJ</i> , <b>2016</b> , 4, e2367	3.1	54
45	Phylogenetic diversity theory sheds light on the structure of microbial communities. <i>PLoS Computational Biology</i> , <b>2012</b> , 8, e1002832	5	41
44	Ecophylogenetics Clarifies the Evolutionary Association between Mammals and Their Gut Microbiota. <i>MBio</i> , <b>2018</b> , 9,	7.8	36
43	Effect of local community phylogenetic structure on pollen limitation in an obligately insect-pollinated plant. <i>American Journal of Botany</i> , <b>2011</b> , 98, 283-9	2.7	35
42	Diversification of <i>Ceanothus</i> (Rhamnaceae) in the California Floristic Province. <i>International Journal of Plant Sciences</i> , <b>2011</b> , 172, 1137-1164	2.6	31
41	Backbones of evolutionary history test biodiversity theory for microbes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 8356-61	11.5	29
40	Tree Leaf Bacterial Community Structure and Diversity Differ along a Gradient of Urban Intensity. <i>MSystems</i> , <b>2017</b> , 2,	7.6	29
39	Functional consequences of climate change-induced plant species loss in a tallgrass prairie. <i>Oecologia</i> , <b>2011</b> , 165, 1109-17	2.9	29
38	Within-stand spatial structure and relation of boreal canopy and understorey vegetation. <i>Journal of Vegetation Science</i> , <b>2006</b> , 17, 783-790	3.1	25
37	Variation in the leaf and root microbiome of sugar maple () at an elevational range limit. <i>PeerJ</i> , <b>2018</b> , 6, e5293	3.1	23
36	Making the Most of Trait-Based Approaches for Microbial Ecology. <i>Trends in Microbiology</i> , <b>2019</b> , 27, 814-823	8.2	22
35	A taxonomic comparison of local habitat niches of tropical trees. <i>Oecologia</i> , <b>2013</b> , 173, 1491-8	2.9	22
34	Glial Cell-Derived Neurotrophic Factor Induces Enteric Neurogenesis and Improves Colon Structure and Function in Mouse Models of Hirschsprung Disease. <i>Gastroenterology</i> , <b>2020</b> , 159, 1824-1838.e17	13.3	19
33	Short-term effects of cut-to-length versus full-tree harvesting on conifer regeneration in jack pine, mixedwood, and black spruce forests in Manitoba. <i>Canadian Journal of Forest Research</i> , <b>2004</b> , 34, 1938-1945	1.9	15
32	Adaptive matching between phyllosphere bacteria and their tree hosts in a neotropical forest. <i>Microbiome</i> , <b>2020</b> , 8, 70	16.6	14
31	The Biogeography of Putative Microbial Antibiotic Production. <i>PLoS ONE</i> , <b>2015</b> , 10, e0130659	3.7	12

30	Canadian butterfly climate debt is significant and correlated with range size. <i>Ecography</i> , <b>2018</b> , 41, 2005-2015	11.5	11
29	Identifying the core seed bank of a complex boreal bacterial metacommunity. <i>ISME Journal</i> , <b>2017</b> , 11, 2012-2021	11.9	11
28	Short-term effects of cut-to-length versus full-tree harvesting on understory plant communities and understory-regeneration associations in Manitoba boreal forests. <i>Forest Ecology and Management</i> , <b>2008</b> , 255, 1848-1858	3.9	11
27	Functional Diversity: An Epistemic Roadmap. <i>BioScience</i> , <b>2019</b> , 69, 800-811	5.7	10
26	Phylogenetic gradient analysis: environmental drivers of phylogenetic variation across ecological communities. <i>Plant Ecology</i> , <b>2015</b> , 216, 709-724	1.7	10
25	Estimating metacommunity extent using data on species abundances, environmental variation, and phylogenetic relationships across geographic space. <i>Ecological Informatics</i> , <b>2013</b> , 13, 114-122	4.2	10
24	Gut microbiota-mediated Gene-Environment interaction in the TashT mouse model of Hirschsprung disease. <i>Scientific Reports</i> , <b>2019</b> , 9, 492	4.9	9
23	The prevalence of nonlinearity and detection of ecological breakpoints across a land use gradient in streams. <i>Scientific Reports</i> , <b>2019</b> , 9, 3878	4.9	9
22	Plant host identity and soil macronutrients explain little variation in sapling endophyte community composition: Is disturbance an alternative explanation?. <i>Journal of Ecology</i> , <b>2019</b> , 107, 1876-1889	6	8
21	Can sugar maple establish into the boreal forest? Insights from seedlings under various canopies in southern Quebec. <i>Ecosphere</i> , <b>2018</b> , 9, e02022	3.1	8
20	Phylogenetic turnover along local environmental gradients in tropical forest communities. <i>Oecologia</i> , <b>2016</b> , 182, 547-57	2.9	8
19	Low Light Availability Associated with American Beech Is the Main Factor for Reduced Sugar Maple Seedling Survival and Growth Rates in a Hardwood Forest of Southern Quebec. <i>Forests</i> , <b>2017</b> , 8, 413	2.8	8
18	Causes of pattern in plant communities where environmental change is rapid and species longevity is short. <i>Journal of Vegetation Science</i> , <b>2006</b> , 17, 599-614	3.1	8
17	Microsite conditions influence leaf litter decomposition in sugar maple bioclimatic domain of Quebec. <i>Biogeochemistry</i> , <b>2019</b> , 145, 107-126	3.8	6
16	Causes of pattern in plant communities where environmental change is rapid and species longevity is short <b>2006</b> , 17, 599		5
15	Shared mycorrhizae but distinct communities of other root-associated microbes on co-occurring native and invasive maples. <i>PeerJ</i> , <b>2019</b> , 7, e7295	3.1	5
14	Bacterial microbiota similarity between predators and prey in a blue tit trophic network. <i>ISME Journal</i> , <b>2021</b> , 15, 1098-1107	11.9	5
13	Host neighborhood shapes bacterial community assembly and specialization on tree species across a latitudinal gradient. <i>Ecological Monographs</i> , <b>2021</b> , 91, e01443	9	4

12	Drivers of phyllosphere microbial functional diversity in a neotropical forest		3
11	Neonicotinoid Seed Treatments Have Significant Non-target Effects on Phyllosphere and Soil Bacterial Communities. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 619827	5.7	3
10	Transfer index, NetUniFrac and some useful shortest path-based distances for community analysis in sequence similarity networks. <i>Bioinformatics</i> , <b>2020</b> , 36, 2740-2749	7.2	2
9	Soils associated to different tree communities do not elicit predictable responses in lake bacterial community structure and function. <i>FEMS Microbiology Ecology</i> , <b>2018</b> , 94,	4.3	2
8	Microsatellite markers from <i>Ceanothus roderickii</i> (Rhamnaceae) using next-generation sequencing technology. <i>American Journal of Botany</i> , <b>2012</b> , 99, e127-30	2.7	2
7	Ecophylogenetics Reveals the Evolutionary Associations between Mammals and their Gut Microbiota		2
6	Plant-bacteria associations are phylogenetically structured in the phyllosphere. <i>Molecular Ecology</i> , <b>2021</b> , 30, 5572-5587	5.7	2
5	Fine-Scale Adaptations to Environmental Variation and Growth Strategies Drive Phyllosphere Diversity.. <i>MBio</i> , <b>2022</b> , e0317521	7.8	1
4	Within-stand spatial structure and relation of boreal canopy and understorey vegetation <b>2006</b> , 17, 783		1
3	Regional variation drives differences in microbial communities associated with sugar maple across a latitudinal range.. <i>Ecology</i> , <b>2022</b> , e3727	4.6	1
2	Dominance of coniferous and broadleaved trees drives bacterial associations with boreal feather mosses.. <i>Environmental Microbiology</i> , <b>2022</b> ,	5.2	1
1	Inconsistent effects of nitrogen canopy enrichment and soil warming on black spruce epiphytic phyllosphere bacterial communities, taxa, and functions. <i>Canadian Journal of Forest Research</i> , <b>2021</b> , 51, 1199-1207	1.9	0