

Jay T Lennon

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

13,435
citations

53794

45
h-index

24982

109
g-index

172
all docs

172
docs citations

172
times ranked

16266
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial seed banks: the ecological and evolutionary implications of dormancy. <i>Nature Reviews Microbiology</i> , 2011, 9, 119-130.	28.6	1,365
2	Fundamentals of Microbial Community Resistance and Resilience. <i>Frontiers in Microbiology</i> , 2012, 3, 417.	3.5	1,131
3	Scaling laws predict global microbial diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5970-5975.	7.1	857
4	Dormancy contributes to the maintenance of microbial diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5881-5886.	7.1	732
5	Microbiomes in light of traits: A phylogenetic perspective. <i>Science</i> , 2015, 350, aac9323.	12.6	652
6	Rapid responses of soil microorganisms improve plant fitness in novel environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14058-14062.	7.1	607
7	Biodiversity may regulate the temporal variability of ecological systems. <i>Ecology Letters</i> , 2001, 4, 72-85.	6.4	411
8	Temporal variability in soil microbial communities across land-use types. <i>ISME Journal</i> , 2013, 7, 1641-1650.	9.8	408
9	Fungal Traits That Drive Ecosystem Dynamics on Land. <i>Microbiology and Molecular Biology Reviews</i> , 2015, 79, 243-262.	6.6	391
10	Ecosystem Consequences of Changing Inputs of Terrestrial Dissolved Organic Matter to Lakes: Current Knowledge and Future Challenges. <i>Ecosystems</i> , 2015, 18, 376-389.	3.4	382
11	Mapping the niche space of soil microorganisms using taxonomy and traits. <i>Ecology</i> , 2012, 93, 1867-1879.	3.2	373
12	Trait-based approaches for understanding microbial biodiversity and ecosystem functioning. <i>Frontiers in Microbiology</i> , 2014, 5, 251.	3.5	323
13	Evolutionary ecology of plant-microbe interactions: soil microbial structure alters selection on plant traits. <i>New Phytologist</i> , 2011, 192, 215-224.	7.3	313
14	Knowing when to draw the line: designing more informative ecological experiments. <i>Frontiers in Ecology and the Environment</i> , 2005, 3, 145-152.	4.0	298
15	Relationships between protein-encoding gene abundance and corresponding process are commonly assumed yet rarely observed. <i>ISME Journal</i> , 2015, 9, 1693-1699.	9.8	276
16	Re-examination of the relationship between marine virus and microbial cell abundances. <i>Nature Microbiology</i> , 2016, 1, 15024.	13.3	264
17	A multitrophic model to quantify the effects of marine viruses on microbial food webs and ecosystem processes. <i>ISME Journal</i> , 2015, 9, 1352-1364.	9.8	223
18	The generation and maintenance of diversity in microbial communities. <i>American Journal of Botany</i> , 2011, 98, 439-448.	1.7	209

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19	Integrating microbial ecology into ecosystem models: challenges and priorities. <i>Biogeochemistry</i> , 2012, 109, 7-18.	3.5	206
20	Resuscitation of the rare biosphere contributes to pulses of ecosystem activity. <i>Frontiers in Microbiology</i> , 2015, 6, 24.	3.5	174
21	The underâ€œice microbiome of seasonally frozen lakes. <i>Limnology and Oceanography</i> , 2013, 58, 1998-2012.	3.1	173
22	Understanding how microbiomes influence the systems they inhabit. <i>Nature Microbiology</i> , 2018, 3, 977-982.	13.3	169
23	How, When, and Where Relic DNA Affects Microbial Diversity. <i>MBio</i> , 2018, 9, .	4.1	151
24	Linking microbial community structure and microbial processes: an empirical and conceptual overview. <i>FEMS Microbiology Ecology</i> , 2015, 91, fiv113.	2.7	143
25	Crop rotational diversity increases disease suppressive capacity of soil microbiomes. <i>Ecosphere</i> , 2018, 9, e02235.	2.2	134
26	Is there a cost of virus resistance in marine cyanobacteria?. <i>ISME Journal</i> , 2007, 1, 300-312.	9.8	127
27	Evolutionary determinants of genome-wide nucleotide composition. <i>Nature Ecology and Evolution</i> , 2018, 2, 237-240.	7.8	126
28	Sensitivity of soil respiration and microbial communities to altered snowfall. <i>Soil Biology and Biochemistry</i> , 2013, 57, 217-227.	8.8	121
29	Source and supply of terrestrial organic matter affects aquatic microbial metabolism. <i>Aquatic Microbial Ecology</i> , 2005, 39, 107-119.	1.8	119
30	Macroecology to Unite All Life, Large and Small. <i>Trends in Ecology and Evolution</i> , 2018, 33, 731-744.	8.7	118
31	A macroecological theory of microbial biodiversity. <i>Nature Ecology and Evolution</i> , 2017, 1, 107.	7.8	108
32	Resource heterogeneity structures aquatic bacterial communities. <i>ISME Journal</i> , 2019, 13, 2183-2195.	9.8	93
33	Evolution with a seed bank: The population genetic consequences of microbial dormancy. <i>Evolutionary Applications</i> , 2018, 11, 60-75.	3.1	86
34	Influence of Temperature on Exotic <i>Daphnia lumholtzi</i> and Implications for Invasion Success. <i>Journal of Plankton Research</i> , 2001, 23, 425-433.	1.8	78
35	Rapid evolution buffers ecosystem impacts of viruses in a microbial food web^{ÂŠ}. <i>Ecology Letters</i> , 2008, 11, 1178-1188.	6.4	73
36	The relative importance of rapid evolution for plant-microbe interactions depends on ecological context. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140028.	2.6	72

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37	Microbial mutualism dynamics governed by dose-dependent toxicity of cross-fed nutrients. <i>ISME Journal</i> , 2017, 11, 337-348.	9.8	72
38	Validation of Heavy-Water Stable Isotope Probing for the Characterization of Rapidly Responding Soil Bacteria. <i>Applied and Environmental Microbiology</i> , 2011, 77, 4589-4596.	3.1	70
39	Predator-induced phenotypic plasticity in the exotic cladoceran <i>Daphnia lumholtzi</i> . <i>Freshwater Biology</i> , 2003, 48, 1593-1602.	2.4	69
40	Ecological networks of dissolved organic matter and microorganisms under global change. <i>Nature Communications</i> , 2022, 13, .	12.8	66
41	Dormancy in Metacommunities. <i>American Naturalist</i> , 2019, 194, 135-151.	2.1	62
42	Diversity and Metabolism of Marine Bacteria Cultivated on Dissolved DNA. <i>Applied and Environmental Microbiology</i> , 2007, 73, 2799-2805.	3.1	59
43	Evidence for a temperature acclimation mechanism in bacteria: an empirical test of a membrane-mediated trade-off. <i>Functional Ecology</i> , 2010, 24, 898-908.	3.6	58
44	Perennial grain crop roots and nitrogen management shape soil food webs and soil carbon dynamics. <i>Soil Biology and Biochemistry</i> , 2019, 137, 107573.	8.8	56
45	Experimental evidence that terrestrial carbon subsidies increase CO ₂ flux from lake ecosystems. <i>Oecologia</i> , 2004, 138, 584-591.	2.0	55
46	Relative importance of CO ₂ recycling and CH ₄ pathways in lake food webs along a dissolved organic carbon gradient. <i>Limnology and Oceanography</i> , 2006, 51, 1602-1613.	3.1	55
47	Dormancy dampens the microbial distance-decay relationship. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190243.	4.0	49
48	Microbial ageing and longevity. <i>Nature Reviews Microbiology</i> , 2019, 17, 679-690.	28.6	48
49	Multi-scale ecological filters shape the crayfish microbiome. <i>Symbiosis</i> , 2017, 72, 159-170.	2.3	46
50	Principles of seed banks and the emergence of complexity from dormancy. <i>Nature Communications</i> , 2021, 12, 4807.	12.8	45
51	Microbial rescue effects: How microbiomes can save hosts from extinction. <i>Functional Ecology</i> , 2020, 34, 2055-2064.	3.6	41
52	Invasibility of plankton food webs along a trophic state gradient. <i>Oikos</i> , 2003, 103, 191-203.	2.7	39
53	MICROBIAL PRODUCTIVITY IN VARIABLE RESOURCE ENVIRONMENTS. <i>Ecology</i> , 2008, 89, 1001-1014.	3.2	39
54	Replication, lies and lesser-known truths regarding experimental design in environmental microbiology. <i>Environmental Microbiology</i> , 2011, 13, 1383-1386.	3.8	39

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55	Plants Mediate the Sensitivity of Soil Respiration to Rainfall Variability. <i>Ecosystems</i> , 2011, 14, 156-167.	3.4	39
56	Bacterial Dormancy Is More Prevalent in Freshwater than Hypersaline Lakes. <i>Frontiers in Microbiology</i> , 2016, 7, 853.	3.5	39
57	Microbial population dynamics and evolutionary outcomes under extreme energy limitation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	38
58	A Source of Terrestrial Organic Carbon to Investigate the Browning of Aquatic Ecosystems. <i>PLoS ONE</i> , 2013, 8, e75771.	2.5	36
59	Metabolic insight into bacterial community assembly across ecosystem boundaries. <i>Ecology</i> , 2020, 101, e02968.	3.2	34
60	A test of the subsidy-stability hypothesis: the effects of terrestrial carbon in aquatic ecosystems. <i>Ecology</i> , 2015, 96, 1550-1560.	3.2	31
61	Phosphorus release from the drying and reflooding of diverse shallow sediments. <i>Biogeochemistry</i> , 2016, 130, 159-176.	3.5	31
62	Trees harness the power of microbes to survive climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11009-11011.	7.1	28
63	Patterns and drivers of fungal community depth stratification in Sphagnum peat. <i>FEMS Microbiology Ecology</i> , 2017, 93, .	2.7	28
64	Denitrification by sulfur-oxidizing bacteria in a eutrophic lake. <i>Aquatic Microbial Ecology</i> , 2012, 66, 283-293.	1.8	28
65	A trait-based approach to bacterial biofilms in soil. <i>Environmental Microbiology</i> , 2016, 18, 2732-2742.	3.8	27
66	Microbial and Environmental Processes Shape the Link between Organic Matter Functional Traits and Composition. <i>Environmental Science & Technology</i> , 2022, 56, 10504-10516.	10.0	27
67	Species sorting along a subsidy gradient alters bacterial community stability. <i>Ecology</i> , 2016, 97, 2034-2043.	3.2	25
68	Nutrient stoichiometry shapes microbial coevolution. <i>Ecology Letters</i> , 2019, 22, 1009-1018.	6.4	25
69	More support for Earth's massive microbiome. <i>Biology Direct</i> , 2020, 15, 5.	4.6	25
70	Phosphorus resource heterogeneity in microbial food webs. <i>Aquatic Microbial Ecology</i> , 2014, 73, 259-272.	1.8	25
71	Microbial contributions to subterranean methane sinks. <i>Geobiology</i> , 2017, 15, 254-258.	2.4	24
72	The Underestimation of Global Microbial Diversity. <i>MBio</i> , 2016, 7, .	4.1	23

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73	Subterranean microbial oxidation of atmospheric methane in cavernous tropical karst. <i>Chemical Geology</i> , 2017, 466, 229-238.	3.3	23
74	Comparative ecological niche models predict the invasive spread of variable-leaf milfoil (<i>Myriophyllum heterophyllum</i>) and its potential impact on closely related native species. <i>Biological Invasions</i> , 2010, 12, 133-143.	2.4	22
75	Food web structure provides biotic resistance against plankton invasion attempts. <i>Biological Invasions</i> , 2007, 9, 257-267.	2.4	21
76	Genome Sequence of the Soil Bacterium <i>Janthinobacterium</i> sp. KBS0711. <i>Genome Announcements</i> , 2015, 3, .	0.8	21
77	Microscale Insight into Microbial Seed Banks. <i>Frontiers in Microbiology</i> , 2016, 7, 2040.	3.5	20
78	Are the abiotic and biotic characteristics of aquatic mesocosms representative of in situ conditions?. <i>Journal of Limnology</i> , 2014, 73, .	1.1	18
79	Microbial dormancy improves predictability of soil respiration at the seasonal time scale. <i>Biogeochemistry</i> , 2019, 144, 103-116.	3.5	16
80	Microbial community assembly in a multi-layer dendritic metacommunity. <i>Oecologia</i> , 2021, 195, 13-24.	2.0	16
81	Peatland microbial community responses to plant functional group and drought are depth-dependent. <i>Molecular Ecology</i> , 2021, 30, 5119-5136.	3.9	15
82	A social-ecological framework for micromanaging microbial services. <i>Frontiers in Ecology and the Environment</i> , 2014, 12, 524-531.	4.0	14
83	Trait-based approach to bacterial growth efficiency. <i>Environmental Microbiology</i> , 2020, 22, 3494-3504.	3.8	14
84	Evidence for limited microbial transfer of methane in a planktonic food web. <i>Aquatic Microbial Ecology</i> , 2009, 58, 45-53.	1.8	14
85	Nitrogen transformations in a through-flow wetland revealed using whole-ecosystem pulsed ^{15}N additions. <i>Limnology and Oceanography</i> , 2012, 57, 221-234.	3.1	13
86	Complete Genome Sequence of Cyanobacterial Siphovirus KBS2A. <i>Genome Announcements</i> , 2013, 1, .	0.8	12
87	Microbial Life Deep Underfoot. <i>MBio</i> , 2020, 11, .	4.1	12
88	Stabilising role of seed banks and the maintenance of bacterial diversity. <i>Ecology Letters</i> , 2021, 24, 2328-2338.	6.4	12
89	A DNA Fingerprinting Approach for Distinguishing Native and Non-native Milfoils. <i>Lake and Reservoir Management</i> , 2006, 22, 1-6.	1.3	11
90	Reply to Willis: Powerful predictions of biodiversity from ecological models and scaling laws. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5097-E5097.	7.1	9

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91	Macroecology for microbiology. <i>Environmental Microbiology Reports</i> , 2017, 9, 38-40.	2.4	9
92	Isotopic evidence for the migration of thermogenic methane into a sulfidic cave, Cueva de Villa Luz, Tabasco, Mexico. <i>Journal of Cave and Karst Studies</i> , 2017, 79, 24-34.	0.6	8
93	Is Hybridization Responsible for Invasive Growth of Non-indigenous Water-milfoils?. <i>Biological Invasions</i> , 2006, 8, 1061-1066.	2.4	7
94	Whole-Genome Sequence of the Soil Bacterium <i>Micrococcus</i> sp. KBS0714. <i>Genome Announcements</i> , 2017, 5, .	0.8	7
95	A Residence Time Theory for Biodiversity. <i>American Naturalist</i> , 2019, 194, 59-72.	2.1	7
96	Differential effects of press vs. pulse seawater intrusion on microbial communities of a tidal freshwater marsh. <i>Limnology and Oceanography Letters</i> , 2023, 8, 154-161.	3.9	7
97	Resuscitation of the microbial seed bank alters plant-soil interactions. <i>Molecular Ecology</i> , 2021, 30, 2905-2914.	3.9	6
98	Low costs of adaptation to dietary restriction. <i>Biology Letters</i> , 2020, 16, 20200008.	2.3	5
99	Characterization and microbial mitigation of fugitive methane emissions from oil and gas wells: Example from Indiana, USA. <i>Applied Geochemistry</i> , 2020, 118, 104619.	3.0	5
100	Seed banks alter the molecular evolutionary dynamics of <i>Bacillus subtilis</i> . <i>Genetics</i> , 2022, 221, .	2.9	5
101	Evolutionary Ecology of Microorganisms: From the Tamed to the Wild. , 0, , 4.1.2-1-4.1.2-12.		4
102	Radiolysis via radioactivity is not responsible for rapid methane oxidation in subterranean air. <i>PLoS ONE</i> , 2018, 13, e0206506.	2.5	4
103	Molecular Evolutionary Dynamics of Energy Limited Microorganisms. <i>Molecular Biology and Evolution</i> , 2021, 38, 4532-4545.	8.9	3
104	Predicting Parallelism and Quantifying Divergence in Microbial Evolution Experiments. <i>MSphere</i> , 2022, 7, e0067221.	2.9	3
105	Specialization Versus Diversification: A Trade-Off for Young Scientists?. <i>Eos</i> , 2007, 88, 343.	0.1	2
106	Scaling relationships among drivers of aquatic respiration in temperate lakes: from the smallest to the largest freshwater ecosystems. <i>Inland Waters</i> , 2016, 6, 1-10.	2.2	2
107	Correction to "The relative importance of rapid evolution for plant-microbe interactions depends on ecological context". <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20141615.	2.6	1
108	Knowing When to Draw the Line: Designing More Informative Ecological Experiments. <i>Frontiers in Ecology and the Environment</i> , 2005, 3, 145.	4.0	1

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109	Microbial trait-based approaches for agroecosystems. <i>Advances in Agronomy</i> , 2022, , 259-299.	5.2	1
110	RAYMOND L. LINDEMAN AWARD TO STUART JONES. <i>Limnology and Oceanography Bulletin</i> , 2012, 21, 61-61.	0.4	0