Jay T Lennon

List of Publications by Year
in descending order

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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	Differential effects of press vs. pulse seawater intrusion on microbial communities of a tidal freshwater marsh. Limnology and Oceanography Letters, 2023, 8, 154-161.	3.9	7
2	Predicting Parallelism and Quantifying Divergence in Microbial Evolution Experiments. MSphere, 2022, 7, e0067221.	2.9	3
3	Seed banks alter the molecular evolutionary dynamics ofBacillus subtilis. Genetics, 2022, 221, .	2.9	5
4	Microbial trait-based approaches for agroecosystems. Advances in Agronomy, 2022, , 259-299.	5.2	1
5	Ecological networks of dissolved organic matter and microorganisms under global change. Nature Communications, 2022, 13, .	12.8	66
6	Microbial and Environmental Processes Shape the Link between Organic Matter Functional Traits and Composition. Environmental Science & Technology, 2022, 56, 10504-10516.	10.0	27
7	Microbial community assembly in a multi-layer dendritic metacommunity. Oecologia, 2021, 195, 13-24.	2.0	16
8	Resuscitation of the microbial seed bank alters plantâ€soil interactions. Molecular Ecology, 2021, 30, 2905-2914.	3.9	6
9	Stabilising role of seed banks and the maintenance of bacterial diversity. Ecology Letters, 2021, 24, 2328-2338.	6.4	12
10	Molecular Evolutionary Dynamics of Energy Limited Microorganisms. Molecular Biology and Evolution, 2021, 38, 4532-4545.	8.9	3
11	Microbial population dynamics and evolutionary outcomes under extreme energy limitation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	38
12	Principles of seed banks and the emergence of complexity from dormancy. Nature Communications, 2021, 12, 4807.	12.8	45
13	Peatland microbial community responses to plant functional group and drought are depthâ€dependent. Molecular Ecology, 2021, 30, 5119-5136.	3.9	15
14	Microbial rescue effects: How microbiomes can save hosts from extinction. Functional Ecology, 2020, 34, 2055-2064.	3.6	41
15	Low costs of adaptation to dietary restriction. Biology Letters, 2020, 16, 20200008.	2.3	5
16	Microbial Life Deep Underfoot. MBio, 2020, 11, .	4.1	12
17	Characterization and microbial mitigation of fugitive methane emissions from oil and gas wells: Example from Indiana, USA. Applied Geochemistry, 2020, 118, 104619.	3.0	5
18	Traitâ€based approach to bacterial growth efficiency. Environmental Microbiology, 2020, 22, 3494-3504.	3.8	14

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19	More support for Earthâ€™s massive microbiome. Biology Direct, 2020, 15, 5.	4.6	25
20	Metabolic insight into bacterial community assembly across ecosystem boundaries. Ecology, 2020, 101, e02968.	3.2	34
21	Dormancy dampens the microbial distanceâ€“decay relationship. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190243.	4.0	49
22	Perennial grain crop roots and nitrogen management shape soil food webs and soil carbon dynamics. Soil Biology and Biochemistry, 2019, 137, 107573.	8.8	56
23	Microbial ageing and longevity. Nature Reviews Microbiology, 2019, 17, 679-690.	28.6	48
24	Microbial dormancy improves predictability of soil respiration at the seasonal time scale. Biogeochemistry, 2019, 144, 103-116.	3.5	16
25	Dormancy in Metacommunities. American Naturalist, 2019, 194, 135-151.	2.1	62
26	Resource heterogeneity structures aquatic bacterial communities. ISME Journal, 2019, 13, 2183-2195.	9.8	93
27	Nutrient stoichiometry shapes microbial coevolution. Ecology Letters, 2019, 22, 1009-1018.	6.4	25
28	A Residence Time Theory for Biodiversity. American Naturalist, 2019, 194, 59-72.	2.1	7
29	Evolutionary determinants of genome-wide nucleotide composition. Nature Ecology and Evolution, 2018, 2, 237-240.	7.8	126
30	Evolution with a seed bank: The population genetic consequences of microbial dormancy. Evolutionary Applications, 2018, 11, 60-75.	3.1	86
31	Radiolysis via radioactivity is not responsible for rapid methane oxidation in subterranean air. PLoS ONE, 2018, 13, e0206506.	2.5	4
32	Macroecology to Unite All Life, Large and Small. Trends in Ecology and Evolution, 2018, 33, 731-744.	8.7	118
33	Crop rotational diversity increases disease suppressive capacity of soil microbiomes. Ecosphere, 2018, 9, e02235.	2.2	134
34	How, When, and Where Relic DNA Affects Microbial Diversity. MBio, 2018, 9, .	4.1	151
35	Understanding how microbiomes influence the systems they inhabit. Nature Microbiology, 2018, 3, 977-982.	13.3	169
36	Microbial mutualism dynamics governed by dose-dependent toxicity of cross-fed nutrients. ISME Journal, 2017, 11, 337-348.	9.8	72

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37	Subterranean microbial oxidation of atmospheric methane in cavernous tropical karst. Chemical Geology, 2017, 466, 229-238.	3.3	23
38	A macroecological theory of microbial biodiversity. Nature Ecology and Evolution, 2017, 1, 107.	7.8	108
39	Macroecology for microbiology. Environmental Microbiology Reports, 2017, 9, 38-40.	2.4	9
40	Trees harness the power of microbes to survive climate change. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11009-11011.	7.1	28
41	Whole-Genome Sequence of the Soil Bacterium Micrococcus sp. KBS0714. Genome Announcements, 2017, 5, .	0.8	7
42	Patterns and drivers of fungal community depth stratification in Sphagnum peat. FEMS Microbiology Ecology, 2017, 93, .	2.7	28
43	Multi-scale ecological filters shape the crayfish microbiome. Symbiosis, 2017, 72, 159-170.	2.3	46
44	Microbial contributions to subterranean methane sinks. Geobiology, 2017, 15, 254-258.	2.4	24
45	Isotopic evidence for the migration of thermogenic methane into a sulfidic cave, Cueva de Villa Luz, Tabasco, Mexico. Journal of Cave and Karst Studies, 2017, 79, 24-34.	0.6	8
46	Bacterial Dormancy Is More Prevalent in Freshwater than Hypersaline Lakes. Frontiers in Microbiology, 2016, 7, 853.	3.5	39
47	A traitâ€based approach to bacterial biofilms in soil. Environmental Microbiology, 2016, 18, 2732-2742.	3.8	27
48	Scaling relationships among drivers of aquatic respiration in temperate lakes: from the smallest to the largest freshwater ecosystems. Inland Waters, 2016, 6, 1-10.	2.2	2
49	Scaling laws predict global microbial diversity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5970-5975.	7.1	857
50	Phosphorus release from the drying and reflooding of diverse shallow sediments. Biogeochemistry, 2016, 130, 159-176.	3.5	31
51	Reply to Willis: Powerful predictions of biodiversity from ecological models and scaling laws. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5097-E5097.	7.1	9
52	Re-examination of the relationship between marine virus and microbial cell abundances. Nature Microbiology, 2016, 1, 15024.	13.3	264
53	The Underestimation of Global Microbial Diversity. MBio, 2016, 7, .	4.1	23
54	Species sorting along a subsidy gradient alters bacterial community stability. Ecology, 2016, 97, 2034-2043.	3.2	25

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55	Microscale Insight into Microbial Seed Banks. Frontiers in Microbiology, 2016, 7, 2040.	3.5	20
56	Fungal Traits That Drive Ecosystem Dynamics on Land. Microbiology and Molecular Biology Reviews, 2015, 79, 243-262.	6.6	391
57	Genome Sequence of the Soil Bacterium Janthinobacterium sp. KBS0711. Genome Announcements, 2015, 3, .	0.8	21
58	A test of the subsidyâ€“stability hypothesis: the effects of terrestrial carbon in aquatic ecosystems. Ecology, 2015, 96, 1550-1560.	3.2	31
59	A multitrophic model to quantify the effects of marine viruses on microbial food webs and ecosystem processes. ISME Journal, 2015, 9, 1352-1364.	9.8	223
60	Resuscitation of the rare biosphere contributes to pulses of ecosystem activity. Frontiers in Microbiology, 2015, 6, 24.	3.5	174
61	Ecosystem Consequences of Changing Inputs of Terrestrial Dissolved Organic Matter to Lakes: Current Knowledge and Future Challenges. Ecosystems, 2015, 18, 376-389.	3.4	382
62	Microbiomes in light of traits: A phylogenetic perspective. Science, 2015, 350, aac9323.	12.6	652
63	Linking microbial community structure and microbial processes: an empirical and conceptual overview. FEMS Microbiology Ecology, 2015, 91, fiv113.	2.7	143
64	Relationships between protein-encoding gene abundance and corresponding process are commonly assumed yet rarely observed. ISME Journal, 2015, 9, 1693-1699.	9.8	276
65	Are the abiotic and biotic characteristics of aquatic mesocosms representative of in situ conditions?. Journal of Limnology, 2014, 73, .	1.1	18
66	Correction to â€˜The relative importance of rapid evolution for plant-microbe interactions depends on ecological contextâ€™. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141615.	2.6	1
67	Trait-based approaches for understanding microbial biodiversity and ecosystem functioning. Frontiers in Microbiology, 2014, 5, 251.	3.5	323
68	The relative importance of rapid evolution for plant-microbe interactions depends on ecological context. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140028.	2.6	72
69	A socialâ€“ecological framework for â€œmicromanagingâ€•microbial services. Frontiers in Ecology and the Environment, 2014, 12, 524-531.	4.0	14
70	Phosphorus resource heterogeneity in microbial food webs. Aquatic Microbial Ecology, 2014, 73, 259-272.	1.8	25
71	Sensitivity of soil respiration and microbial communities to altered snowfall. Soil Biology and Biochemistry, 2013, 57, 217-227.	8.8	121
72	Temporal variability in soil microbial communities across land-use types. ISME Journal, 2013, 7, 1641-1650.	9.8	408

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73	Complete Genome Sequence of Cyanobacterial Siphovirus KBS2A. Genome Announcements, 2013, 1, .	0.8	12
74	The underâ€ice microbiome of seasonally frozen lakes. Limnology and Oceanography, 2013, 58, 1998-2012.	3.1	173
75	A Source of Terrestrial Organic Carbon to Investigate the Browning of Aquatic Ecosystems. PLoS ONE, 2013, 8, e75771.	2.5	36
76	Rapid responses of soil microorganisms improve plant fitness in novel environments. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14058-14062.	7.1	607
77	Nitrogen transformations in a through-flow wetland revealed using whole-ecosystem pulsed 15 N additions. Limnology and Oceanography, 2012, 57, 221-234.	3.1	13
78	Fundamentals of Microbial Community Resistance and Resilience. Frontiers in Microbiology, 2012, 3, 417.	3.5	1,131
79	Mapping the niche space of soil microorganisms using taxonomy and traits. Ecology, 2012, 93, 1867-1879.	3.2	373
80	RAYMOND L. LINDEMAN AWARD TO STUART JONES. Limnology and Oceanography Bulletin, 2012, 21, 61-61.	0.4	0
81	Integrating microbial ecology into ecosystem models: challenges and priorities. Biogeochemistry, 2012, 109, 7-18.	3.5	206
82	Denitrification by sulfur-oxidizing bacteria in a eutrophic lake. Aquatic Microbial Ecology, 2012, 66, 283-293.	1.8	28
83	The generation and maintenance of diversity in microbial communities. American Journal of Botany, 2011, 98, 439-448.	1.7	209
84	Replication, lies and lesserâ€known truths regarding experimental design in environmental microbiology. Environmental Microbiology, 2011, 13, 1383-1386.	3.8	39
85	Evolutionary ecology of plantâ€“microbe interactions: soil microbial structure alters selection on plant traits. New Phytologist, 2011, 192, 215-224.	7.3	313
86	Microbial seed banks: the ecological and evolutionary implications of dormancy. Nature Reviews Microbiology, 2011, 9, 119-130.	28.6	1,365
87	Plants Mediate the Sensitivity of Soil Respiration to Rainfall Variability. Ecosystems, 2011, 14, 156-167.	3.4	39
88	Validation of Heavy-Water Stable Isotope Probing for the Characterization of Rapidly Responding Soil Bacteria. Applied and Environmental Microbiology, 2011, 77, 4589-4596.	3.1	70
89	Comparative ecological niche models predict the invasive spread of variable-leaf milfoil (Myriophyllum heterophyllum) and its potential impact on closely related native species. Biological Invasions, 2010, 12, 133-143.	2.4	22
90	Evidence for a temperature acclimation mechanism in bacteria: an empirical test of a membraneâ€mediated tradeâ€off. Functional Ecology, 2010, 24, 898-908.	3.6	58

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91	Dormancy contributes to the maintenance of microbial diversity. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5881-5886.	7.1	732
92	Evidence for limited microbial transfer of methane in a planktonic food web. Aquatic Microbial Ecology, 2009, 58, 45-53.	1.8	14
93	Rapid evolution buffers ecosystem impacts of viruses in a microbial food web^{Â§}. Ecology Letters, 2008, 11, 1178-1188.	6.4	73
94	MICROBIAL PRODUCTIVITY IN VARIABLE RESOURCE ENVIRONMENTS. Ecology, 2008, 89, 1001-1014.	3.2	39
95	Diversity and Metabolism of Marine Bacteria Cultivated on Dissolved DNA. Applied and Environmental Microbiology, 2007, 73, 2799-2805.	3.1	59
96	Specialization Versus Diversification: A Trade-Off for Young Scientists?. Eos, 2007, 88, 343.	0.1	2
97	Is there a cost of virus resistance in marine cyanobacteria?. ISME Journal, 2007, 1, 300-312.	9.8	127
98	Food web structure provides biotic resistance against plankton invasion attempts. Biological Invasions, 2007, 9, 257-267.	2.4	21
99	Relative importance of CO₂ recycling and CH₄ pathways in lake food webs along a dissolved organic carbon gradient. Limnology and Oceanography, 2006, 51, 1602-1613.	3.1	55
100	Is Hybridization Responsible for Invasive Growth of Non-indigenous Water-milfoils?. Biological Invasions, 2006, 8, 1061-1066.	2.4	7
101	A DNA Fingerprinting Approach for Distinguishing Native and Non-native Milfoils. Lake and Reservoir Management, 2006, 22, 1-6.	1.3	11
102	Knowing when to draw the line: designing more informative ecological experiments. Frontiers in Ecology and the Environment, 2005, 3, 145-152.	4.0	298
103	Knowing When to Draw the Line: Designing More Informative Ecological Experiments. Frontiers in Ecology and the Environment, 2005, 3, 145.	4.0	1
104	Source and supply of terrestrial organic matter affects aquatic microbial metabolism. Aquatic Microbial Ecology, 2005, 39, 107-119.	1.8	119
105	Experimental evidence that terrestrial carbon subsidies increase CO 2 flux from lake ecosystems. Oecologia, 2004, 138, 584-591.	2.0	55
106	Invasibility of plankton food webs along a trophic state gradient. Oikos, 2003, 103, 191-203.	2.7	39
107	Predator-induced phenotypic plasticity in the exotic cladoceran Daphnia lumholtzi. Freshwater Biology, 2003, 48, 1593-1602.	2.4	69
108	Influence of Temperature on Exotic Daphnia lumholtzi and Implications for Invasion Success. Journal of Plankton Research, 2001, 23, 425-433.	1.8	78

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109	Biodiversity may regulate the temporal variability of ecological systems. Ecology Letters, 2001, 4, 72-85.	6.4	411
110	Evolutionary Ecology of Microorganisms: From the Tamed to the Wild. , 0, , 4.1.2-1-4.1.2-12.		4