Jonathan M Levine

List of Publications by Citations

104 papers	15,816 citations	53 h-index	113 g-index
113 ext. papers	18,983 ext. citations	9.3 avg, IF	7.17 L-index

#	Paper	IF	Citations
104	Why intraspecific trait variation matters in community ecology. *Trends in Ecology and Evolution*, **2011**, 26, 183-92	10.9	1350
103	Mechanisms underlying the impacts of exotic plant invasions. *Proceedings of the Royal Society B: Biological Sciences*, **2003**, 270, 775-81	4.4	1095
102	Opposing effects of competitive exclusion on the phylogenetic structure of communities. *Ecology Letters*, **2010**, 13, 1085-93	10	1019
101	A meta-analysis of biotic resistance to exotic plant invasions. *Ecology Letters*, **2004**, 7, 975-989	10	969
100	Elton Revisited: A Review of Evidence Linking Diversity and Invasibility. *Oikos*, **1999**, 87, 15	4	875
99	Species diversity and biological invasions: relating local process to community pattern. *Science*, **2000**, 288, 852-4	33.3	786
98	Community assembly, coexistence and the environmental filtering metaphor. *Functional Ecology*, **2015**, 29, 592-599	5.6	747
97	A niche for neutrality. *Ecology Letters*, **2007**, 10, 95-104	10	710
96	Forecasting Biological Invasions with Increasing International Trade. *Conservation Biology*, **2003**, 17, 322-326	6	499
95	The importance of niches for the maintenance of species diversity. *Nature*, **2009**, 461, 254-7	50.4	480
94	Plant functional traits and the multidimensional nature of species coexistence. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 797-802	11.5	463
93	Novel competitors shape species' responses to climate change. *Nature*, **2015**, 525, 515-8	50.4	342
92	The Community-Level Consequences of Seed Dispersal Patterns. *Annual Review of Ecology, Evolution, and Systematics*, **2003**, 34, 549-574	13.5	308
91	Plant invasions and the niche. *Journal of Ecology*, **2009**, 97, 609-615	6	306
90	Beyond pairwise mechanisms of species coexistence in complex communities. *Nature*, **2017**, 546, 56-64	50.4	295
89	TESTING THE RELATIVE CONTRIBUTION OF POSITIVE AND NEGATIVE INTERACTIONS IN ROCKY INTERTIDAL COMMUNITIES. *Ecology*, **1999**, 80, 2711-2726	4.6	259
88	Nutrients, competition and plant zonation in a New England salt marsh. *Journal of Ecology*, **1998**, 86, 285-292	6	233

87	Climate variability has a stabilizing effect on the coexistence of prairie grasses. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 12793-8	11.5	217
86	A competitive network theory of species diversity. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 5638-42	11.5	210
85	Phylogenetic relatedness and the determinants of competitive outcomes. *Ecology Letters*, **2014**, 17, 836-44	10	201
84	The ecological forecast horizon, and examples of its uses and determinants. *Ecology Letters*, **2015**, 18, 597-611	10	174
83	Coexistence of perennial plants: an embarrassment of niches. *Ecology Letters*, **2010**, 13, 1019-29	10	174
82	INDIRECT FACILITATION: EVIDENCE AND PREDICTIONS FROM A RIPARIAN COMMUNITY. *Ecology*, **1999**, 80, 1762-1769	4.6	169
81	How variation between individuals affects species coexistence. *Ecology Letters*, **2016**, 19, 825-38	10	162
80	HOW FINE SEDIMENT IN RIVERBEDS IMPAIRS GROWTH AND SURVIVAL OF JUVENILE SALMONIDS **2004**, 14, 969-974		160
79	FLOW-DRIVEN VARIATION IN INTERTIDAL COMMUNITY STRUCTURE IN A MAINE ESTUARY. *Ecology* , **1998**, 79, 1395-1411	4.6	152
78	Contrasting relationships between precipitation and species richness in space and time. *Oikos*, **2007** , 116, 221-232	4	150
77	Coexistence and relative abundance in annual plant assemblages: the roles of competition and colonization. *American Naturalist*, **2002**, 160, 452-67	3.7	143
76	Plant-soil feedbacks and invasive spread. *Ecology Letters*, **2006**, 9, 1005-14	10	138
75	Phenology effects on invasion success: insights from coupling field experiments to coexistence theory. *Ecology*, **2014**, 95, 726-36	4.6	125
74	Plant invasions and extinction debts. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 1744-9	11.5	125
73	Effects of temporal variability on rare plant persistence in annual systems. *American Naturalist*, **2004**, 164, 350-63	3.7	119
72	Phenotypic Plasticity and Species Coexistence. *Trends in Ecology and Evolution*, **2016**, 31, 803-813	10.9	115
71	A structural approach for understanding multispecies coexistence. *Ecological Monographs*, **2017**, 87, 470-486	9	100
70	Coexistence, niches and biodiversity effects on ecosystem functioning. *Ecology Letters*, **2013**, 16 Suppl 1, 116-27	10	98

69	When Climate Reshuffles Competitors: A Call for Experimental Macroecology. *Trends in Ecology and Evolution*, **2016**, 31, 831-841	10.9	96
68	Ecosystem tipping points in an evolving world. *Nature Ecology and Evolution*, **2019**, 3, 355-362	12.3	95
67	Climate-driven interactions among rocky intertidal organisms caught between a rock and a hot place. *Oecologia*, **1999**, 120, 446-450	2.9	91
66	Rainfall effects on rare annual plants. *Journal of Ecology*, **2008**, 96, 795-806	6	89
65	Eco-Evolutionary dynamics enable coexistence via neighbor-dependent selection. *American Naturalist*, **2011**, 178, E96-E109	3.7	87
64	COMPLEX INTERACTIONS IN A STREAMSIDE PLANT COMMUNITY. *Ecology*, **2000**, 81, 3431-3444	4.6	86
63	Rapid evolution accelerates plant population spread in fragmented experimental landscapes. *Science*, **2016**, 353, 482-5	33.3	85
62	California annual grass invaders: the drivers or passengers of change?. *Journal of Ecology*, **2010**, 98, 114761156		80
61	Abiotic and biotic resistance to grass invasion in serpentine annual plant communities. *Oecologia*, **2009**, 159, 839-47	2.9	78
60	Reply to Ferrarini: Strengths and weaknesses of simple competition models. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, E346-E346	11.5	78
59	The spatial scales of species coexistence. *Nature Ecology and Evolution*, **2017**, 1, 1066-1073	12.3	77
58	Interactive effects of elevation and burial with wrack on plant community structure in some Rhode Island salt marshes. *Journal of Ecology*, **1998**, 86, 125-136	6	70
57	Local interactions, dispersal, and native and exotic plant diversity along a California stream. *Oikos*, **2001**, 95, 397-408	4	66
56	How to quantify competitive ability. *Journal of Ecology*, **2018**, 106, 1902-1909	6	62
55	Ecological drift and the distribution of species diversity. *Proceedings of the Royal Society B: Biological Sciences*, **2017**, 284,	4.4	61
54	Competition-defense tradeoffs and the maintenance of plant diversity. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 17217-22	11.5	61
53	Effects of rapid evolution on species coexistence. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 2112-2117	11.5	59
52	Intransitivity is infrequent and fails to promote annual plant coexistence without pairwise niche differences. *Ecology*, **2017**, 98, 1193-1200	4.6	53

51	Do competitors modulate rare plant response to precipitation change?. *Ecology*, **2010**, 91, 130-40	4.6	49
50	The effects of intransitive competition on coexistence. *Ecology Letters*, **2017**, 20, 791-800	10	47
49	An improved model to predict the effects of changing biodiversity levels on ecosystem function. *Journal of Ecology*, **2013**, 101, 344-355	6	47
48	Biological invasions. *Current Biology*, **2008**, 18, R57-60	6.3	46
47	A PATCH MODELING APPROACH TO THE COMMUNITY-LEVEL CONSEQUENCES OF DIRECTIONAL DISPERSAL. *Ecology*, **2003**, 84, 1215-1224	4.6	46
46	Direct and indirect effects of climate change on a prairie plant community. *PLoS ONE*, **2009**, 4, e6887	3.7	46
45	What genomic data can reveal about eco-evolutionary dynamics. *Nature Ecology and Evolution*, **2018**, 2, 9-15	12.3	43
44	Mechanisms underlying the impacts of exotic annual grasses in a coastal California meadow. *Biological Invasions*, **2006**, 9, 65-71	2.7	42
43	The role of plant-soil feedbacks in driving native-species recovery. *Ecology*, **2011**, 92, 66-74	4.6	39
42	Nitrogen effects on an interaction chain in a salt marsh community. *Oecologia*, **1998**, 117, 266-272	2.9	38
41	The Invasion Criterion: A Common Currency for Ecological Research. *Trends in Ecology and Evolution* , **2019**, 34, 925-935	10.9	37
40	Weak effect of climate variability on coexistence in a sagebrush steppe community. *Ecology*, **2009**, 90, 3303-12	4.6	36
39	Seasonal timing of first rain storms affects rare plant population dynamics. *Ecology*, **2011**, 92, 2236-47	4.6	33
38	The Influence of Evolution on Population Spread through Patchy Landscapes. *American Naturalist*, **2016**, 188, 15-26	3.7	32
37	Density dependence slows invader spread in fragmented landscapes. *American Naturalist*, **2011**, 177, 18-28	3.7	32
36	Ecology: A trail map for trait-based studies. *Nature*, **2016**, 529, 163-4	50.4	30
35	Earlier phenology of a nonnative plant increases impacts on native competitors. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 6199-6204	11.5	29
34	Rapid evolution of phenology during range expansion with recent climate change. *Global Change Biology*, **2018**, 24, e534-e544	11.4	24

33	Winning and losing with microbes: how microbially mediated fitness differences influence plant diversity. *Ecology Letters*, **2019**, 22, 1178-1191	10	22
32	On testing the role of niche differences in stabilizing coexistence. *Functional Ecology*, **2008**, 22, 934-936	5.6	22
31	Species diversity reduces invasion success in pathogen-regulated communities. *Oikos*, **2010**, 119, 1040-1046	4	21
30	A competition–defence trade-off both promotes and weakens coexistence in an annual plant community. *Journal of Ecology*, **2018**, 106, 1806-1818	6	20
29	Processes Limiting Native Shrub Recovery in Exotic Grasslands after Non-Native Herbivore Removal. *Restoration Ecology*, **2010**, 18, 418-425	3.1	19
28	Species persistence under climate change: a geographical scale coexistence problem. *Ecology Letters*, **2018**, 21, 1589-1603	10	18
27	The germination strategies of widespread annual plants are unrelated to regional climate. *Global Ecology and Biogeography*, **2014**, 23, 1430-1439	6.1	16
26	Asynchronous range shifts drive alpine plant-pollinator interactions and reduce plant fitness. *Global Change Biology*, **2020**, 26, 3052-3064	11.4	15
25	Using ecological coexistence theory to understand antibiotic resistance and microbial competition. *Nature Ecology and Evolution*, **2021**, 5, 431-441	12.3	14
24	Trait correlations equalize spread velocity across plant life histories. *Global Ecology and Biogeography*, **2017**, 26, 1398-1407	6.1	11
23	Competitive history shapes rapid evolution in a seasonal climate. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	8
22	Experimental evidence that density dependence strongly influences plant invasions through fragmented landscapes. *Ecology*, **2018**, 99, 876-884	4.6	7
21	Small-scale variation in growing season length affects size structure of scarlet monkeyflower. *Oikos* , **2004**, 106, 131-137	4	7
20	Contrasting relationships between precipitation and species richness in space and time **2007**, 116, 221		7
19	Evolution during population spread affects plant performance in stressful environments. *Journal of Ecology*, **2019**, 107, 396-406	6	6
18	Climate-driven range shifts reduce persistence of competitors in a perennial plant community. *Global Change Biology*, **2021**, 27, 1890-1903	11.4	6
17	INDIRECT FACILITATION: EVIDENCE AND PREDICTIONS FROM A RIPARIAN COMMUNITY **1999**, 80, 1762		6
16	TESTING THE RELATIVE CONTRIBUTION OF POSITIVE AND NEGATIVE INTERACTIONS IN ROCKY INTERTIDAL COMMUNITIES **1999**, 80, 2711		6

List of Publications

15	COMPLEX INTERACTIONS IN A STREAMSIDE PLANT COMMUNITY **2000**, 81, 3431		6
14	Does deterministic coexistence theory matter in a finite world?		5
13	Phenological plasticity is a poor predictor of subalpine plant population performance following experimental climate change. *Oikos*, **2020**, 129, 184-193	4	4
12	Human-associated microbiota suppress invading bacteria even under disruption by antibiotics. *ISME Journal*, **2021**, 15, 2809-2812	11.9	4
11	Maintenance of high diversity in mechanistic forest dynamics models of competition for light. *Ecological Monographs*,	9	3
10	Ecosystem tipping points in an evolving world		3
9	TESTING THE RELATIVE CONTRIBUTION OF POSITIVE AND NEGATIVE INTERACTIONS IN ROCKY INTERTIDAL COMMUNITIES **1999**, 80, 2711		2
8	Quantifying microbially mediated fitness differences reveals the tendency for plant-soil feedbacks to drive species exclusion among California annual plants		2
7	Mechanisms underlying higher order interactions: from quantitative definitions to ecological processes		2
6	Soil Microbes Generate Stronger Fitness Differences than Stabilization among California Annual Plants. *American Naturalist*, **2021**, 197, E30-E39	3.7	2
5	An Empiricist's Guide to Using Ecological Theory.. *American Naturalist*, **2022**, 199, 1-20	3.7	2
4	The Temporal Dimension of Plant-Soil Microbe Interactions: Mechanisms Promoting Feedback between Generations. *American Naturalist*, **2021**, 198, E80-E94	3.7	2
3	Rapid evolution of life-history traits in response to warming, predation and competition: A meta-analysis. *Ecology Letters*, **2021**,	10	1
2	How Dispersal Evolution and Local Adaptation Affect the Range Dynamics of Species Lagging Behind Climate Change. *American Naturalist*, **2021**, 197, E173-E187	3.7	1
1	A mechanistic study of plant and microbial controls over R* for nitrogen in an annual grassland. *PLoS ONE*, **2014**, 9, e106059	3.7	