Jennifer A Rudgers

List of Publications by Year
in descending order

133 papers	6,410 citations	61945 43 h-index	76872 74 g-index
135 all docs	135 docs citations	135 times ranked	6445 citing authors

#	Article	IF	Citations
1	Direct and ecological costs of resistance to herbivory. Trends in Ecology and Evolution, 2002, 17, 278-285.	4.2	765
2	How context dependent are species interactions?. Ecology Letters, 2014, 17, 881-890.	3.0	480
3	Fungal symbionts alter plant responses to global change. American Journal of Botany, 2013, 100, 1445-1457.	0.8	238
4	Balancing multiple mutualists: asymmetric interactions among plants, arbuscular mycorrhizal fungi, and fungal endophytes. Oikos, 2008, 117, 310-320.	1.2	178
5	Herbivores cause a rapid increase in hereditary symbiosis and alter plant community composition. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12465-12470.	3.3	176
6	Biochar and Microbial Signaling: Production Conditions Determine Effects on Microbial Communication. Environmental Science & Technology, 2013, 47, 11496-11503.	4.6	174
7	Invasive Plants can Inhibit Native Tree Seedlings: Testing Potential Allelopathic Mechanisms. Plant Ecology, 2005, 181, 153-165.	0.7	132
8	ENEMIES OF HERBIVORES CAN SHAPE PLANT TRAITS: SELECTION IN A FACULTATIVE ANTâ€“PLANT MUTUALISM. Ecology, 2004, 85, 192-205.	1.5	130
9	Symbiosis Lost: Imperfect Vertical Transmission of Fungal Endophytes in Grasses. American Naturalist, 2008, 172, 405-416.	1.0	125
10	A selection mosaic in the facultative mutualism between ants and wild cotton. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 2481-2488.	1.2	122
11	Endophytic fungi alter relationships between diversity and ecosystem properties. Ecology Letters, 2004, 7, 42-51.	3.0	118
12	Connecting plantâ€“microbial interactions above and belowground: a fungal endophyte affects decomposition. Oecologia, 2005, 145, 595-604.	0.9	116
13	A fungus among us: broad patterns of endophyte distribution in the grasses. Ecology, 2009, 90, 1531-1539.	1.5	113
14	FOREST SUCCESSION SUPPRESSED BY AN INTRODUCED PLANTâ€“FUNGAL SYMBIOSIS. Ecology, 2007, 88, 18-25.	1.5	111
15	Endophyte symbiosis with tall fescue: how strong are the impacts on communities and ecosystems?. Fungal Biology Reviews, 2007, 21, 107-124.	1.9	107
16	An invasive plantâ€“fungal mutualism reduces arthropod diversity. Ecology Letters, 2008, 11, 831-840.	3.0	99
17	EXTRAFLORAL NECTAR AS A RESOURCE MEDIATING MULTISPECIES INTERACTIONS. Ecology, 2004, 85, 1495-1502.	1.5	91
18	Multiple mutualist effects: conflict and synergy in multispecies mutualisms. Ecology, 2014, 95, 833-844.	1.5	91

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19	Nitrogen, biochar, and mycorrhizae: Alteration of the symbiosis and oxidation of the char surface. Soil Biology and Biochemistry, 2013, 58, 248-254.	4.2	90
20	Mutualistic fungus promotes plant invasion into diverse communities. Oecologia, 2005, 144, 463-471.	0.9	88
21	Experimental plant invasion reduces arthropod abundance and richness across multiple trophic levels. Oikos, 2010, 119, 1553-1562.	1.2	88
22	Tradeâ€offs among antiâ€herbivore resistance traits: insights from Gossypieae (Malvaceae). American Journal of Botany, 2004, 91, 871-880.	0.8	87
23	Exposure to predicted precipitation patterns decreases population size and alters community structure of cyanobacteria in biological soil crusts from the Chihuahuan Desert. Environmental Microbiology, 2018, 20, 259-269.	1.8	83
24	Nonâ€native grass alters growth of native tree species via leaf and soil microbes. Journal of Ecology, 2009, 97, 247-255.	1.9	79
25	Fungal endophytes of native grasses decrease insect herbivore preference and performance. Oecologia, 2010, 164, 431-444.	0.9	78
26	Responses of highâ€altitude graminoids and soil fungi to 20 years of experimental warming. Ecology, 2014, 95, 1918-1928.	1.5	75
27	Climate sensitivity functions and net primary production: A framework for incorporating climate mean and variability. Ecology, 2018, 99, 576-582.	1.5	73
28	Genetic diversity within a dominant plant outweighs plant species diversity in structuring an arthropod community. Ecology, 2013, 94, 1025-1035.	1.5	72
29	Climate Disruption of Plant-Microbe Interactions. Annual Review of Ecology, Evolution, and Systematics, 2020, 51, 561-586.	3.8	72
30	Understanding context-dependency in plantâ€“microbe symbiosis: The influence of abiotic and biotic contexts on host fitness and the rate of symbiont transmission. Environmental and Experimental Botany, 2011, 71, 137-145.	2.0	68
31	Managing plant symbiosis: fungal endophyte genotype alters plant community composition. Journal of Applied Ecology, 2010, 47, 468-477.	1.9	67
32	Plantâ€soil feedbacks promote negative frequency dependence in the coexistence of two aridland grasses. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160608.	1.2	67
33	Benefits of a fungal endophyte in Elymus virginicus decline under drought stress. Basic and Applied Ecology, 2009, 10, 43-51.	1.2	63
34	Plant species diversity and genetic diversity within a dominant species interactively affect plant community biomass. Journal of Ecology, 2012, 100, 1512-1521.	1.9	62
35	There are many ways to be a mutualist: Endophytic fungus reduces plant survival but increases population growth. Ecology, 2012, 93, 565-574.	1.5	60
36	Soil microbial responses to nitrogen addition in arid ecosystems. Frontiers in Microbiology, 2015, 6, 819.	1.5	55

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37	Grassâ€“herbivore interactions altered by strains of a native endophyte. New Phytologist, 2006, 170, 513-521.	3.5	53
38	Behavioral mechanisms underlie an ant-plant mutualism. Oecologia, 2003, 135, 51-59.	0.9	52
39	Interactions between insect herbivores and a plant architectural dimorphism. Journal of Ecology, 2006, 94, 1249-1260.	1.9	51
40	Genetic variation within a dominant shrub species determines plant species colonization in a coastal dune ecosystem. Ecology, 2010, 91, 1237-1243.	1.5	49
41	Facilitation between coastal dune shrubs: a non-nitrogen fixing shrub facilitates establishment of a nitrogen-fixer. Oikos, 2003, 102, 75-84.	1.2	48
42	Biotic and abiotic predictors of fungal colonization in grasses of the Colorado Rockies. Diversity and Distributions, 2015, 21, 962-976.	1.9	48
43	Plant-fungus mutualism affects spider composition in successional fields. Ecology Letters, 2006, 9, 347-356.	3.0	44
44	Vertically transmitted symbionts as mechanisms of transgenerational effects. American Journal of Botany, 2017, 104, 787-792.	0.8	44
45	Experimental Light Treatments Affect Invasion Success and the Impact of Microstegium vimineum on the Resident Community. Natural Areas Journal, 2007, 27, 124-132.	0.2	41
46	Biogeography of plantâ€associated fungal symbionts in mountain ecosystems: A metaâ€analysis. Diversity and Distributions, 2017, 23, 1067-1077.	1.9	39
47	Nature's microbiome: introduction. Molecular Ecology, 2014, 23, 1225-1237.	2.0	36
48	Elevated dominance of extrafloral nectaryâ€bearing plants is associated with increased abundances of an invasive ant and reduced native ant richness. Diversity and Distributions, 2009, 15, 751-761.	1.9	35
49	Leaf endophytic fungus interacts with precipitation to alter belowground microbial communities in primary successional dunes. FEMS Microbiology Ecology, 2017, 93, .	1.3	35
50	Do the costs and benefits of fungal endophyte symbiosis vary with light availability?. New Phytologist, 2010, 188, 824-834.	3.5	34
51	Patterns of bird invasion are consistent with environmental filtering. Ecography, 2012, 35, 614-623.	2.1	34
52	Pollinator Visits to Threatened Species Are Restored Following Invasive Plant Removal. International Journal of Plant Sciences, 2011, 172, 411-422.	0.6	32
53	Endophyte-Mediated Resistance to Herbivores Depends on Herbivore Identity in the Wild GrassFestuca subverticillata. Environmental Entomology, 2009, 38, 1086-1095.	0.7	31
54	Connecting plantâ€“soil feedbacks to longâ€term stability in a desert grassland. Ecology, 2019, 100, e02756.	1.5	31

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55	Divergent responses of primary production to increasing precipitation variability in global drylands. Global Change Biology, 2021, 27, 5225-5237.	4.2	31
56	Biogeography of Root-Associated Fungal Endophytes. Ecological Studies, 2017, , 195-222.	0.4	30
57	Genetic variation within a dominant shrub structures green and brown community assemblages. Ecology, 2014, 95, 387-398.	1.5	28
58	Prevalence of an intraspecificNeotyphodiumhybrid in natural populations of stout wood reed (Cinna) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.8	27
59	Altitudinal gradients fail to predict fungal symbiont responses to warming. Ecology, 2019, 100, e02740.	1.5	25
60	A mutualistic endophyte alters the niche dimensions of its host plant. AoB PLANTS, 2015, 7, plv005-plv005.	1.2	24
61	Sensitivity of dryland plant allometry to climate. Functional Ecology, 2019, 33, 2290-2303.	1.7	24
62	Ecological Assessment of Dune Restorations in the Great Lakes Region. Restoration Ecology, 2010, 18, 184-194.	1.4	23
63	Costs, benefits, and loss of vertically transmitted symbionts affect host population dynamics. Oikos, 2013, 122, 1512-1520.	1.2	23
64	Biotic and abiotic predictors of ecosystem engineering traits of the dune building grass, Ammophila breviligulata. Ecosphere, 2014, 5, 1-18.	1.0	22
65	Fungal symbionts maintain a rare plant population but demographic advantage drives the dominance of a common host. Journal of Ecology, 2015, 103, 967-977.	1.9	21
66	Contextâ€dependent biotic interactions control plant abundance across altitudinal environmental gradients. Ecography, 2019, 42, 1600-1612.	2.1	21
67	Pressâ€“pulse interactions and longâ€term community dynamics in a Chihuahuan Desert grassland. Journal of Vegetation Science, 2020, 31, 722-732.	1.1	21
68	Timing of Prescribed Burns Affects Abundance and Composition of Arthropods in the Texas Hill Country. Southwestern Naturalist, 2008, 53, 137-145.	0.1	20
69	Plant Identity Influences Foliar Fungal Symbionts More Than Elevation in the Colorado Rocky Mountains. Microbial Ecology, 2019, 78, 688-698.	1.4	20
70	Non-additive benefit or cost? Disentangling the indirect effects that occur when plants bearing extrafloral nectaries and honeydew-producing insects share exotic ant mutualists. Annals of Botany, 2013, 111, 1295-1307.	1.4	19
71	Are fungal networks key to dryland primary production?. American Journal of Botany, 2018, 105, 1783-1787.	0.8	19
72	Searching for Evidence against the Mutualistic Nature of Hereditary Symbioses: A Comment on Faeth. American Naturalist, 2010, 176, 99-103.	1.0	18

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73	Variation in Endophyte Symbiosis, Herbivory and Drought Tolerance of Ammophila breviligulata Populations in the Great Lakes Region. American Midland Naturalist, 2010, 163, 186-196.	0.2	18
74	How do plants balance multiple mutualists? Correlations among traits for attracting protective bodyguards and pollinators in cotton (Gossypium). Evolutionary Ecology, 2012, 26, 65-77.	0.5	18
75	Fungal symbiosis and precipitation alter traits and dune building by the ecosystem engineer,Ammophila breviligulata. Ecology, 2015, 96, 927-935.	1.5	18
76	Fungal Symbionts as Manipulators of Plant Reproductive Biology. American Naturalist, 2013, 181, 562-570.	1.0	17
77	Does a foliar endophyte improve plant fitness under flooding?. Plant Ecology, 2017, 218, 711-723.	0.7	17
78	Experimental drought reâ€ordered assemblages of rootâ€associated fungi across North American grasslands. Journal of Ecology, 2021, 109, 776-792.	1.9	17
79	Biogeography of rootâ€associated fungi in foundation grasses of North American plains. Journal of Biogeography, 2022, 49, 22-37.	1.4	17
80	Benefits and Constraints on Plant Defense against Herbivores: Spines Influence the Legitimate and Illegitimate Flower Visitors of Yellow Star Thistle, Centaurea solstitialis L. (Asteraceae). Southwestern Naturalist, 2000, 45, 1.	0.1	16
81	Impact of Competition and Mycorrhizal Fungi on Growth of Centaurea stoebe, an Invasive Plant of Sand Dunes. American Midland Naturalist, 2012, 167, 213-222.	0.2	16
82	Potential for endophyte symbiosis to increase resistance of the native grass Poa alsodes to invasion by the non-native grass Microstegium vimineum. Symbiosis, 2011, 53, 17-28.	1.2	15
83	Experimental drought reduces genetic diversity in the grassland foundation species Bouteloua eriopoda. Oecologia, 2019, 189, 1107-1120.	0.9	15
84	Inter-annual variation in above- and belowground herbivory on a native, annual legume. Plant Ecology, 2003, 169, 105-120.	0.7	14
85	Geographic variation in a facultative mutualism: consequences for local arthropod composition and diversity. Oecologia, 2010, 163, 985-996.	0.9	14
86	Niche Differentiation in the Dynamics of Host-Symbiont Interactions: Symbiont Prevalence as a Coexistence Problem. American Naturalist, 2014, 183, 506-518.	1.0	14
87	Soil nutrients trump intraspecific effects on understory plant communities. Oecologia, 2013, 173, 1531-1538.	0.9	13
88	Fungal symbiont effects on dune plant diversity depend on precipitation. Journal of Ecology, 2015, 103, 219-230.	1.9	13
89	Asexual EpichloÃ« Endophytes Do Not Consistently Alter Arbuscular Mycorrhizal Fungi Colonization in Three Grasses. American Midland Naturalist, 2018, 179, 157-165.	0.2	13
90	Divergence in Diversity and Composition of Root-Associated Fungi Between Greenhouse and Field Studies in a Semiarid Grassland. Microbial Ecology, 2019, 78, 122-135.	1.4	13

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91	Leaf endophytes mediate fertilizer effects on plant yield and traits in northern oat grass (Trisetum) Tj ETQq1 1 0.784314 rgBT /Overlo	1.8	13
92	Water availability alters the tri-trophic consequences of a plant-fungal symbiosis. Arthropod-Plant Interactions, 2011, 5, 19-27.	0.5	12
93	Beach Restoration Efforts Influenced by Plant Variety, Soil Inoculum, and Site Effects. Journal of Coastal Research, 2011, 27, 636.	0.1	11
94	Impacts of simulated climate change and fungal symbionts on survival and growth of a foundation species in sand dunes. Oecologia, 2013, 173, 1601-1612.	0.9	11
95	The Role of Host Demographic Storage in the Ecological Dynamics of Heritable Symbionts. American Naturalist, 2016, 188, 446-459.	1.0	11
96	Soil surface disturbance alters cyanobacterial biocrusts and soil properties in dry grassland and shrubland ecosystems. Plant and Soil, 2019, 441, 147-159.	1.8	11
97	Grass species identity shapes communities of root and leaf fungi more than elevation. ISME Communications, 2022, 2, .	1.7	11
98	Testing the roles of vertical transmission and drought stress in the prevalence of heritable fungal endophytes in annual grass populations. New Phytologist, 2018, 219, 1075-1084.	3.5	10
99	Pocket gopher (Thomomys talpoides) soil disturbance peaks at mid-elevation and is associated with air temperature, forb cover, and plant diversity. Arctic, Antarctic, and Alpine Research, 2018, 50, .	0.4	10
100	Simulated folivory increases vertical transmission of fungal endophytes that deter herbivores and alter tolerance to herbivory inPoa autumnalis. Annals of Botany, 2020, 125, 981-991.	1.4	10
101	Rainfall pulse regime drives biomass and community composition in biological soil crusts. Ecology, 2022, 103, e3744.	1.5	10
102	Variation in the Prevalence and Transmission of Heritable Symbionts Across Host Populations in Heterogeneous Environments. Microbial Ecology, 2017, 74, 640-653.	1.4	9
103	Plantâ€“fungal symbiosis affects litter decomposition during primary succession. Oikos, 2017, 126, 801-811.	1.2	9
104	Biocrusts benefit from plant removal. American Journal of Botany, 2018, 105, 1133-1141.	0.8	9
105	Mammalian herbivores restrict the altitudinal range limits of alpine plants. Ecology Letters, 2021, 24, 1930-1942.	3.0	9
106	Covariation of Soil Bacterial Composition with Plant Rarity. Applied and Environmental Microbiology, 2010, 76, 7665-7667.	1.4	7
107	Proximity to agriculture alters abundance and community composition of wild sunflower mutualists and antagonists. Ecosphere, 2013, 4, 1-16.	1.0	7
108	Long-term ungulate exclusion reduces fungal symbiont prevalence in native grasslands. Oecologia, 2016, 181, 1151-1161.	0.9	7

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109	Does host outcrossing disrupt compatibility with heritable symbionts?. Oikos, 2019, 128, 892-903.	1.2	7
110	Weak latitudinal gradients in insect herbivory for dominant rangeland grasses of North America. Ecology and Evolution, 2020, 10, 6385-6394.	0.8	7
111	Sensitivity of soil organic matter to climate and fire in a desert grassland. Biogeochemistry, 2021, 156, 59-74.	1.7	7
112	Predicting changes in bee assemblages following state transitions at North American dryland ecotones. Scientific Reports, 2020, 10, 708.	1.6	7
113	Declines in rodent abundance and diversity track regional climate variability in North American drylands. Global Change Biology, 2021, 27, 4005-4023.	4.2	7
114	Spatial variation in edaphic characteristics is a stronger control than nitrogen inputs in regulating soil microbial effects on a desert grass. Journal of Arid Environments, 2017, 142, 59-65.	1.2	6
115	Plant-microbe interactions as a cause of ring formation in Bouteloua gracilis. Journal of Arid Environments, 2018, 152, 1-5.	1.2	6
116	Soil microbes that may accompany climate warming increase alpine plant production. Oecologia, 2019, 191, 493-504.	0.9	6
117	Contextâ€dependent variability in the population prevalence and individual fitness effects of plantâ€“fungal symbiosis. Journal of Ecology, 2021, 109, 847-859.	1.9	6
118	State changes: insights from the U.S. Long Term Ecological Research Network. Ecosphere, 2021, 12, e03433.	1.0	6
119	Darksidea phi, sp. nov., a dark septate root-associated fungus in foundation grasses in North American Great Plains. Mycologia, 2022, 114, 254-269.	0.8	6
120	Fungal connections between plants and biocrusts facilitate plants but have little effect on biocrusts. Journal of Ecology, 2020, 108, 894-907.	1.9	5
121	Culturable root endophyte communities are shaped by both warming and plant host identity in the Rocky Mountains, USA. Fungal Ecology, 2021, 49, 101002.	0.7	5
122	Riparian plant species differ in sensitivity to both the mean and variance in groundwater stores. Journal of Plant Ecology, 2020, 13, 621-632.	1.2	4
123	Disturbance to biocrusts decreased cyanobacteria, <scp>N</scp>â€fixer abundance, and grass leaf <scp>N</scp> but increased fungal abundance. Ecology, 2022, 103, e3656.	1.5	4
124	Testing for loss of EpichloÃ« and nonâ€epichloid symbionts under altered rainfall regimes. American Journal of Botany, 2019, 106, 1081-1089.	0.8	3
125	Arsenic Accumulation in Hydroponically Grown Schizachyrium scoparium (Little Bluestem) Amended with Root-Colonizing Endophytes. ACS Earth and Space Chemistry, 2021, 5, 1278-1287.	1.2	3
126	Patterns and trends of organic matter processing and transport: Insights from the US long-term ecological research network. Climate Change Ecology, 2021, 2, 100025.	0.9	3

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127	Climate mediates longâ€term impacts of rodent exclusion on desert plant communities. Ecological Monographs, 2022, 92, .	2.4	3
128	Constraints on plant signals and rewards to multiple mutualists?. Plant Signaling and Behavior, 2009, 4, 801-804.	1.2	2
129	Microbial mutualists and biodiversity in ecosystems. , 2012, , 391-413.		2
130	Direct and indirect influences of warming on leaf endophytic fungi: A physiological and compositional approach. , 2019, , 125-140.		2
131	Improving Instructional Fitness Requires Change. BioScience, 2020, 70, 1027-1035.	2.2	1
132	Chapter Seven. Red Queen Communities. , 2010, , 145-178.		0
133	Flood regime alters the abiotic correlates of riparian vegetation. Applied Vegetation Science, 2021, 24, e12572.	0.9	0