

Jennifer A Rudgers

List of Publications by Year in descending order

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Version: 2024-02-01

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	Biogeography of root-associated fungi in foundation grasses of North American plains. <i>Journal of Biogeography</i> , 2022, 49, 22-37.	1.4	17
2	Climate mediates long-term impacts of rodent exclusion on desert plant communities. <i>Ecological Monographs</i> , 2022, 92, .	2.4	3
3	Disturbance to biocrusts decreased cyanobacteria, N -fixer abundance, and grass leaf N but increased fungal abundance. <i>Ecology</i> , 2022, 103, e3656.	1.5	4
4	Grass species identity shapes communities of root and leaf fungi more than elevation. <i>ISME Communications</i> , 2022, 2, .	1.7	11
5	<i>Darksidea phi</i> , sp. nov., a dark septate root-associated fungus in foundation grasses in North American Great Plains. <i>Mycologia</i> , 2022, 114, 254-269.	0.8	6
6	Rainfall pulse regime drives biomass and community composition in biological soil crusts. <i>Ecology</i> , 2022, 103, e3744.	1.5	10
7	Sensitivity of soil organic matter to climate and fire in a desert grassland. <i>Biogeochemistry</i> , 2021, 156, 59-74.	1.7	7
8	Context-dependent variability in the population prevalence and individual fitness effects of plant-fungal symbiosis. <i>Journal of Ecology</i> , 2021, 109, 847-859.	1.9	6
9	Experimental drought re-ordered assemblages of root-associated fungi across North American grasslands. <i>Journal of Ecology</i> , 2021, 109, 776-792.	1.9	17
10	Culturable root endophyte communities are shaped by both warming and plant host identity in the Rocky Mountains, USA. <i>Fungal Ecology</i> , 2021, 49, 101002.	0.7	5
11	Flood regime alters the abiotic correlates of riparian vegetation. <i>Applied Vegetation Science</i> , 2021, 24, e12572.	0.9	0
12	State changes: insights from the U.S. Long Term Ecological Research Network. <i>Ecosphere</i> , 2021, 12, e03433.	1.0	6
13	Arsenic Accumulation in Hydroponically Grown <i>Schizachyrium scoparium</i> (Little Bluestem) Amended with Root-Colonizing Endophytes. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1278-1287.	1.2	3
14	Mammalian herbivores restrict the altitudinal range limits of alpine plants. <i>Ecology Letters</i> , 2021, 24, 1930-1942.	3.0	9
15	Declines in rodent abundance and diversity track regional climate variability in North American drylands. <i>Global Change Biology</i> , 2021, 27, 4005-4023.	4.2	7
16	Divergent responses of primary production to increasing precipitation variability in global drylands. <i>Global Change Biology</i> , 2021, 27, 5225-5237.	4.2	31
17	Patterns and trends of organic matter processing and transport: Insights from the US long-term ecological research network. <i>Climate Change Ecology</i> , 2021, 2, 100025.	0.9	3
18	Fungal connections between plants and biocrusts facilitate plants but have little effect on biocrusts. <i>Journal of Ecology</i> , 2020, 108, 894-907.	1.9	5

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19	Weak latitudinal gradients in insect herbivory for dominant rangeland grasses of North America. <i>Ecology and Evolution</i> , 2020, 10, 6385-6394.	0.8	7
20	Riparian plant species differ in sensitivity to both the mean and variance in groundwater stores. <i>Journal of Plant Ecology</i> , 2020, 13, 621-632.	1.2	4
21	Climate Disruption of Plant-Microbe Interactions. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2020, 51, 561-586.	3.8	72
22	Improving Instructional Fitness Requires Change. <i>BioScience</i> , 2020, 70, 1027-1035.	2.2	1
23	Predicting changes in bee assemblages following state transitions at North American dryland ecotones. <i>Scientific Reports</i> , 2020, 10, 708.	1.6	7
24	Simulated folivory increases vertical transmission of fungal endophytes that deter herbivores and alter tolerance to herbivory in <i>Poa autumnalis</i> . <i>Annals of Botany</i> , 2020, 125, 981-991.	1.4	10
25	Press-pulse interactions and long-term community dynamics in a Chihuahuan Desert grassland. <i>Journal of Vegetation Science</i> , 2020, 31, 722-732.	1.1	21
26	Testing for loss of <i>Epichloa</i> and non-epichloid symbionts under altered rainfall regimes. <i>American Journal of Botany</i> , 2019, 106, 1081-1089.	0.8	3
27	Sensitivity of dryland plant allometry to climate. <i>Functional Ecology</i> , 2019, 33, 2290-2303.	1.7	24
28	Soil microbes that may accompany climate warming increase alpine plant production. <i>Oecologia</i> , 2019, 191, 493-504.	0.9	6
29	Plant Identity Influences Foliar Fungal Symbionts More Than Elevation in the Colorado Rocky Mountains. <i>Microbial Ecology</i> , 2019, 78, 688-698.	1.4	20
30	Soil surface disturbance alters cyanobacterial biocrusts and soil properties in dry grassland and shrubland ecosystems. <i>Plant and Soil</i> , 2019, 441, 147-159.	1.8	11
31	Context-dependent biotic interactions control plant abundance across altitudinal environmental gradients. <i>Ecography</i> , 2019, 42, 1600-1612.	2.1	21
32	Connecting plant-soil feedbacks to long-term stability in a desert grassland. <i>Ecology</i> , 2019, 100, e02756.	1.5	31
33	Direct and indirect influences of warming on leaf endophytic fungi: A physiological and compositional approach. , 2019, , 125-140.		2
34	Altitudinal gradients fail to predict fungal symbiont responses to warming. <i>Ecology</i> , 2019, 100, e02740.	1.5	25
35	Experimental drought reduces genetic diversity in the grassland foundation species <i>Bouteloua eriopoda</i> . <i>Oecologia</i> , 2019, 189, 1107-1120.	0.9	15
36	Does host outcrossing disrupt compatibility with heritable symbionts?. <i>Oikos</i> , 2019, 128, 892-903.	1.2	7

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37	Divergence in Diversity and Composition of Root-Associated Fungi Between Greenhouse and Field Studies in a Semiarid Grassland. <i>Microbial Ecology</i> , 2019, 78, 122-135.	1.4	13
38	Leaf endophytes mediate fertilizer effects on plant yield and traits in northern oat grass (<i>Trisetum</i>) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	1.8	13
39	Plant-microbe interactions as a cause of ring formation in <i>Bouteloua gracilis</i> . <i>Journal of Arid Environments</i> , 2018, 152, 1-5.	1.2	6
40	Climate sensitivity functions and net primary production: A framework for incorporating climate mean and variability. <i>Ecology</i> , 2018, 99, 576-582.	1.5	73
41	Asexual <i>Epichloa</i> Endophytes Do Not Consistently Alter Arbuscular Mycorrhizal Fungi Colonization in Three Grasses. <i>American Midland Naturalist</i> , 2018, 179, 157-165.	0.2	13
42	Exposure to predicted precipitation patterns decreases population size and alters community structure of cyanobacteria in biological soil crusts from the Chihuahuan Desert. <i>Environmental Microbiology</i> , 2018, 20, 259-269.	1.8	83
43	Testing the roles of vertical transmission and drought stress in the prevalence of heritable fungal endophytes in annual grass populations. <i>New Phytologist</i> , 2018, 219, 1075-1084.	3.5	10
44	Are fungal networks key to dryland primary production?. <i>American Journal of Botany</i> , 2018, 105, 1783-1787.	0.8	19
45	Pocket gopher (<i>Thomomys talpoides</i>) soil disturbance peaks at mid-elevation and is associated with air temperature, forb cover, and plant diversity. <i>Arctic, Antarctic, and Alpine Research</i> , 2018, 50, .	0.4	10
46	Biocrusts benefit from plant removal. <i>American Journal of Botany</i> , 2018, 105, 1133-1141.	0.8	9
47	Does a foliar endophyte improve plant fitness under flooding?. <i>Plant Ecology</i> , 2017, 218, 711-723.	0.7	17
48	Vertically transmitted symbionts as mechanisms of transgenerational effects. <i>American Journal of Botany</i> , 2017, 104, 787-792.	0.8	44
49	Spatial variation in edaphic characteristics is a stronger control than nitrogen inputs in regulating soil microbial effects on a desert grass. <i>Journal of Arid Environments</i> , 2017, 142, 59-65.	1.2	6
50	Leaf endophytic fungus interacts with precipitation to alter belowground microbial communities in primary successional dunes. <i>FEMS Microbiology Ecology</i> , 2017, 93, .	1.3	35
51	Biogeography of plant-associated fungal symbionts in mountain ecosystems: A meta-analysis. <i>Diversity and Distributions</i> , 2017, 23, 1067-1077.	1.9	39
52	Variation in the Prevalence and Transmission of Heritable Symbionts Across Host Populations in Heterogeneous Environments. <i>Microbial Ecology</i> , 2017, 74, 640-653.	1.4	9
53	Plant-fungal symbiosis affects litter decomposition during primary succession. <i>Oikos</i> , 2017, 126, 801-811.	1.2	9
54	Biogeography of Root-Associated Fungal Endophytes. <i>Ecological Studies</i> , 2017, , 195-222.	0.4	30

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55	Long-term ungulate exclusion reduces fungal symbiont prevalence in native grasslands. <i>Oecologia</i> , 2016, 181, 1151-1161.	0.9	7
56	The Role of Host Demographic Storage in the Ecological Dynamics of Heritable Symbionts. <i>American Naturalist</i> , 2016, 188, 446-459.	1.0	11
57	Plant-soil feedbacks promote negative frequency dependence in the coexistence of two aridland grasses. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160608.	1.2	67
58	Fungal symbiont effects on dune plant diversity depend on precipitation. <i>Journal of Ecology</i> , 2015, 103, 219-230.	1.9	13
59	Soil microbial responses to nitrogen addition in arid ecosystems. <i>Frontiers in Microbiology</i> , 2015, 6, 819.	1.5	55
60	A mutualistic endophyte alters the niche dimensions of its host plant. <i>AoB PLANTS</i> , 2015, 7, plv005-plv005.	1.2	24
61	Biotic and abiotic predictors of fungal colonization in grasses of the Colorado Rockies. <i>Diversity and Distributions</i> , 2015, 21, 962-976.	1.9	48
62	Fungal symbionts maintain a rare plant population but demographic advantage drives the dominance of a common host. <i>Journal of Ecology</i> , 2015, 103, 967-977.	1.9	21
63	Fungal symbiosis and precipitation alter traits and dune building by the ecosystem engineer, <i>Ammophila breviligulata</i> . <i>Ecology</i> , 2015, 96, 927-935.	1.5	18
64	Niche Differentiation in the Dynamics of Host-Symbiont Interactions: Symbiont Prevalence as a Coexistence Problem. <i>American Naturalist</i> , 2014, 183, 506-518.	1.0	14
65	Genetic variation within a dominant shrub structures green and brown community assemblages. <i>Ecology</i> , 2014, 95, 387-398.	1.5	28
66	Nature's microbiome: introduction. <i>Molecular Ecology</i> , 2014, 23, 1225-1237.	2.0	36
67	How context dependent are species interactions?. <i>Ecology Letters</i> , 2014, 17, 881-890.	3.0	480
68	Responses of high-altitude graminoids and soil fungi to 20 years of experimental warming. <i>Ecology</i> , 2014, 95, 1918-1928.	1.5	75
69	Multiple mutualist effects: conflict and synergy in multispecies mutualisms. <i>Ecology</i> , 2014, 95, 833-844.	1.5	91
70	Biotic and abiotic predictors of ecosystem engineering traits of the dune building grass, <i>Ammophila breviligulata</i> . <i>Ecosphere</i> , 2014, 5, 1-18.	1.0	22
71	Fungal symbionts alter plant responses to global change. <i>American Journal of Botany</i> , 2013, 100, 1445-1457.	0.8	238
72	Soil nutrients trump intraspecific effects on understory plant communities. <i>Oecologia</i> , 2013, 173, 1531-1538.	0.9	13

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73	Impacts of simulated climate change and fungal symbionts on survival and growth of a foundation species in sand dunes. <i>Oecologia</i> , 2013, 173, 1601-1612.	0.9	11
74	Biochar and Microbial Signaling: Production Conditions Determine Effects on Microbial Communication. <i>Environmental Science & Technology</i> , 2013, 47, 11496-11503.	4.6	174
75	Non-additive benefit or cost? Disentangling the indirect effects that occur when plants bearing extrafloral nectaries and honeydew-producing insects share exotic ant mutualists. <i>Annals of Botany</i> , 2013, 111, 1295-1307.	1.4	19
76	Costs, benefits, and loss of vertically transmitted symbionts affect host population dynamics. <i>Oikos</i> , 2013, 122, 1512-1520.	1.2	23
77	Fungal Symbionts as Manipulators of Plant Reproductive Biology. <i>American Naturalist</i> , 2013, 181, 562-570.	1.0	17
78	Nitrogen, biochar, and mycorrhizae: Alteration of the symbiosis and oxidation of the char surface. <i>Soil Biology and Biochemistry</i> , 2013, 58, 248-254.	4.2	90
79	Genetic diversity within a dominant plant outweighs plant species diversity in structuring an arthropod community. <i>Ecology</i> , 2013, 94, 1025-1035.	1.5	72
80	Proximity to agriculture alters abundance and community composition of wild sunflower mutualists and antagonists. <i>Ecosphere</i> , 2013, 4, 1-16.	1.0	7
81	Impact of Competition and Mycorrhizal Fungi on Growth of <i>Centaurea stoebe</i> , an Invasive Plant of Sand Dunes. <i>American Midland Naturalist</i> , 2012, 167, 213-222.	0.2	16
82	Microbial mutualists and biodiversity in ecosystems. , 2012, , 391-413.		2
83	Plant species diversity and genetic diversity within a dominant species interactively affect plant community biomass. <i>Journal of Ecology</i> , 2012, 100, 1512-1521.	1.9	62
84	There are many ways to be a mutualist: Endophytic fungus reduces plant survival but increases population growth. <i>Ecology</i> , 2012, 93, 565-574.	1.5	60
85	Patterns of bird invasion are consistent with environmental filtering. <i>Ecography</i> , 2012, 35, 614-623.	2.1	34
86	How do plants balance multiple mutualists? Correlations among traits for attracting protective bodyguards and pollinators in cotton (<i>Gossypium</i>). <i>Evolutionary Ecology</i> , 2012, 26, 65-77.	0.5	18
87	Understanding context-dependency in plant-microbe symbiosis: The influence of abiotic and biotic contexts on host fitness and the rate of symbiont transmission. <i>Environmental and Experimental Botany</i> , 2011, 71, 137-145.	2.0	68
88	Potential for endophyte symbiosis to increase resistance of the native grass <i>Poa alsodes</i> to invasion by the non-native grass <i>Microstegium vimineum</i> . <i>Symbiosis</i> , 2011, 53, 17-28.	1.2	15
89	Water availability alters the tri-trophic consequences of a plant-fungal symbiosis. <i>Arthropod-Plant Interactions</i> , 2011, 5, 19-27.	0.5	12
90	Beach Restoration Efforts Influenced by Plant Variety, Soil Inoculum, and Site Effects. <i>Journal of Coastal Research</i> , 2011, 27, 636.	0.1	11

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91	Prevalence of an intraspecific <i>Neotyphodium</i> hybrid in natural populations of stout wood reed (<i>Cinna</i>) Tj ETQq1 1 0.784314 rgBT /Overlo	0.8	27
92	Pollinator Visits to Threatened Species Are Restored Following Invasive Plant Removal. <i>International Journal of Plant Sciences</i> , 2011, 172, 411-422.	0.6	32
93	Chapter Seven. <i>Red Queen Communities.</i> , 2010, , 145-178.		0
94	Geographic variation in a facultative mutualism: consequences for local arthropod composition and diversity. <i>Oecologia</i> , 2010, 163, 985-996.	0.9	14
95	Fungal endophytes of native grasses decrease insect herbivore preference and performance. <i>Oecologia</i> , 2010, 164, 431-444.	0.9	78
96	Ecological Assessment of Dune Restorations in the Great Lakes Region. <i>Restoration Ecology</i> , 2010, 18, 184-194.	1.4	23
97	Do the costs and benefits of fungal endophyte symbiosis vary with light availability?. <i>New Phytologist</i> , 2010, 188, 824-834.	3.5	34
98	Experimental plant invasion reduces arthropod abundance and richness across multiple trophic levels. <i>Oikos</i> , 2010, 119, 1553-1562.	1.2	88
99	Managing plant symbiosis: fungal endophyte genotype alters plant community composition. <i>Journal of Applied Ecology</i> , 2010, 47, 468-477.	1.9	67
100	Covariation of Soil Bacterial Composition with Plant Rarity. <i>Applied and Environmental Microbiology</i> , 2010, 76, 7665-7667.	1.4	7
101	Searching for Evidence against the Mutualistic Nature of Hereditary Symbioses: A Comment on Faeth. <i>American Naturalist</i> , 2010, 176, 99-103.	1.0	18
102	Genetic variation within a dominant shrub species determines plant species colonization in a coastal dune ecosystem. <i>Ecology</i> , 2010, 91, 1237-1243.	1.5	49
103	Variation in Endophyte Symbiosis, Herbivory and Drought Tolerance of <i>Ammophila breviligulata</i> Populations in the Great Lakes Region. <i>American Midland Naturalist</i> , 2010, 163, 186-196.	0.2	18
104	Constraints on plant signals and rewards to multiple mutualists?. <i>Plant Signaling and Behavior</i> , 2009, 4, 801-804.	1.2	2
105	Endophyte-Mediated Resistance to Herbivores Depends on Herbivore Identity in the Wild Grass <i>Festuca subverticillata</i> . <i>Environmental Entomology</i> , 2009, 38, 1086-1095.	0.7	31
106	Benefits of a fungal endophyte in <i>Elymus virginicus</i> decline under drought stress. <i>Basic and Applied Ecology</i> , 2009, 10, 43-51.	1.2	63
107	Non-native grass alters growth of native tree species via leaf and soil microbes. <i>Journal of Ecology</i> , 2009, 97, 247-255.	1.9	79
108	Elevated dominance of extrafloral nectary-bearing plants is associated with increased abundances of an invasive ant and reduced native ant richness. <i>Diversity and Distributions</i> , 2009, 15, 751-761.	1.9	35

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109	A fungus among us: broad patterns of endophyte distribution in the grasses. <i>Ecology</i> , 2009, 90, 1531-1539.	1.5	113
110	An invasive plantâ€“fungal mutualism reduces arthropod diversity. <i>Ecology Letters</i> , 2008, 11, 831-840.	3.0	99
111	Balancing multiple mutualists: asymmetric interactions among plants, arbuscular mycorrhizal fungi, and fungal endophytes. <i>Oikos</i> , 2008, 117, 310-320.	1.2	178
112	Timing of Prescribed Burns Affects Abundance and Composition of Arthropods in the Texas Hill Country. <i>Southwestern Naturalist</i> , 2008, 53, 137-145.	0.1	20
113	Symbiosis Lost: Imperfect Vertical Transmission of Fungal Endophytes in Grasses. <i>American Naturalist</i> , 2008, 172, 405-416.	1.0	125
114	Experimental Light Treatments Affect Invasion Success and the Impact of <i>Microstegium vimineum</i> on the Resident Community. <i>Natural Areas Journal</i> , 2007, 27, 124-132.	0.2	41
115	FOREST SUCCESSION SUPPRESSED BY AN INTRODUCED PLANTâ€“FUNGAL SYMBIOSIS. <i>Ecology</i> , 2007, 88, 18-25.	1.5	111
116	Endophyte symbiosis with tall fescue: how strong are the impacts on communities and ecosystems?. <i>Fungal Biology Reviews</i> , 2007, 21, 107-124.	1.9	107
117	Plant-fungus mutualism affects spider composition in successional fields. <i>Ecology Letters</i> , 2006, 9, 347-356.	3.0	44
118	Grassâ€“herbivore interactions altered by strains of a native endophyte. <i>New Phytologist</i> , 2006, 170, 513-521.	3.5	53
119	Interactions between insect herbivores and a plant architectural dimorphism. <i>Journal of Ecology</i> , 2006, 94, 1249-1260.	1.9	51
120	Mutualistic fungus promotes plant invasion into diverse communities. <i>Oecologia</i> , 2005, 144, 463-471.	0.9	88
121	Connecting plantâ€“microbial interactions above and belowground: a fungal endophyte affects decomposition. <i>Oecologia</i> , 2005, 145, 595-604.	0.9	116
122	Invasive Plants can Inhibit Native Tree Seedlings: Testing Potential Allelopathic Mechanisms. <i>Plant Ecology</i> , 2005, 181, 153-165.	0.7	132
123	Herbivores cause a rapid increase in hereditary symbiosis and alter plant community composition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 12465-12470.	3.3	176
124	Tradeoffs among antiâ€“herbivore resistance traits: insights from <i>Gossypieae</i> (Malvaceae). <i>American Journal of Botany</i> , 2004, 91, 871-880.	0.8	87
125	Endophytic fungi alter relationships between diversity and ecosystem properties. <i>Ecology Letters</i> , 2004, 7, 42-51.	3.0	118
126	A selection mosaic in the facultative mutualism between ants and wild cotton. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 2481-2488.	1.2	122

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127	ENEMIES OF HERBIVORES CAN SHAPE PLANT TRAITS: SELECTION IN A FACULTATIVE ANT-PLANT MUTUALISM. Ecology, 2004, 85, 192-205.	1.5	130
128	EXTRAFLOREAL NECTAR AS A RESOURCE MEDIATING MULTISPECIES INTERACTIONS. Ecology, 2004, 85, 1495-1502.	1.5	91
129	Inter-annual variation in above- and belowground herbivory on a native, annual legume. Plant Ecology, 2003, 169, 105-120.	0.7	14
130	Behavioral mechanisms underlie an ant-plant mutualism. Oecologia, 2003, 135, 51-59.	0.9	52
131	Facilitation between coastal dune shrubs: a non-nitrogen fixing shrub facilitates establishment of a nitrogen-fixer. Oikos, 2003, 102, 75-84.	1.2	48
132	Direct and ecological costs of resistance to herbivory. Trends in Ecology and Evolution, 2002, 17, 278-285.	4.2	765
133	Benefits and Constraints on Plant Defense against Herbivores: Spines Influence the Legitimate and Illegitimate Flower Visitors of Yellow Star Thistle, <i>Centaurea solstitialis</i> L. (Asteraceae). Southwestern Naturalist, 2000, 45, 1.	0.1	16