

Peter Adler

List of Publications by Year in descending order

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Version: 2024-02-01

119
papers

14,769
citations

34105

52
h-index

21540

114
g-index

130
all docs

130
docs citations

130
times ranked

15155
citing authors

#	ARTICLE	IF	CITATIONS
1	A meta-analysis of biotic resistance to exotic plant invasions. Ecology Letters, 2004, 7, 975-989.	6.4	1,149
2	Community assembly, coexistence and the environmental filtering metaphor. Functional Ecology, 2015, 29, 592-599.	3.6	1,126
3	A niche for neutrality. Ecology Letters, 2007, 10, 95-104.	6.4	887
4	Herbivores and nutrients control grassland plant diversity via light limitation. Nature, 2014, 508, 517-520.	27.8	669
5	Plant diversity predicts beta but not alpha diversity of soil microbes across grasslands worldwide. Ecology Letters, 2015, 18, 85-95.	6.4	612
6	Integrative modelling reveals mechanisms linking productivity and plant species richness. Nature, 2016, 529, 390-393.	27.8	564
7	Beyond pairwise mechanisms of species coexistence in complex communities. Nature, 2017, 546, 56-64.	27.8	544
8	Functional traits explain variation in plant life history strategies. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 740-745.	7.1	473
9	Productivity Is a Poor Predictor of Plant Species Richness. Science, 2011, 333, 1750-1753.	12.6	463
10	Trait-based tests of coexistence mechanisms. Ecology Letters, 2013, 16, 1294-1306.	6.4	422
11	Eutrophication weakens stabilizing effects of diversity in natural grasslands. Nature, 2014, 508, 521-525.	27.8	409
12	Grassland productivity limited by multiple nutrients. Nature Plants, 2015, 1, 15080.	9.3	403
13	Addition of multiple limiting resources reduces grassland diversity. Nature, 2016, 537, 93-96.	27.8	355
14	Finding generality in ecology: a model for globally distributed experiments. Methods in Ecology and Evolution, 2014, 5, 65-73.	5.2	353
15	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, 12793-12798.	7.1	285
16	Competition and coexistence in plant communities: intraspecific competition is stronger than interspecific competition. Ecology Letters, 2018, 21, 1319-1329.	6.4	283
17	Coexistence of perennial plants: an embarrassment of niches. Ecology Letters, 2010, 13, 1019-1029.	6.4	230
18	Sensitivity of mean annual primary production to precipitation. Global Change Biology, 2012, 18, 2246-2255.	9.5	201

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19	Contrasting relationships between precipitation and species richness in space and time. <i>Oikos</i> , 2007, 116, 221-232.	2.7	183
20	The power of time: spatiotemporal scaling of species diversity. <i>Ecology Letters</i> , 2003, 6, 749-756.	6.4	178
21	Local loss and spatial homogenization of plant diversity reduce ecosystem multifunctionality. <i>Nature Ecology and Evolution</i> , 2018, 2, 50-56.	7.8	172
22	A practical guide to selecting models for exploration, inference, and prediction in ecology. <i>Ecology</i> , 2021, 102, e03336.	3.2	170
23	Life-history constraints in grassland plant species: a growth-defence trade-off is the norm. <i>Ecology Letters</i> , 2013, 16, 513-521.	6.4	165
24	An expanded modern coexistence theory for empirical applications. <i>Ecology Letters</i> , 2019, 22, 3-18.	6.4	147
25	Functional traits of graminoids in semi-arid steppes: a test of grazing histories. <i>Journal of Applied Ecology</i> , 2004, 41, 653-663.	4.0	145
26	Plant species' origin predicts dominance and response to nutrient enrichment and herbivores in global grasslands. <i>Nature Communications</i> , 2015, 6, 7710.	12.8	143
27	Large niche differences emerge at the recruitment stage to stabilize grassland coexistence. <i>Ecological Monographs</i> , 2015, 85, 373-392.	5.4	137
28	Forecasting plant community impacts of climate variability and change: when do competitive interactions matter?. <i>Journal of Ecology</i> , 2012, 100, 478-487.	4.0	135
29	Synchrony matters more than species richness in plant community stability at a global scale. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24345-24351.	7.1	113
30	The Net Effect of Functional Traits on Fitness. <i>Trends in Ecology and Evolution</i> , 2020, 35, 1037-1047.	8.7	107
31	Causal networks clarify productivity-richness interrelations, bivariate plots do not. <i>Functional Ecology</i> , 2014, 28, 787-798.	3.6	106
32	Demography of perennial grassland plants: survival, life expectancy and life span. <i>Journal of Ecology</i> , 2008, 96, 1023-1032.	4.0	101
33	Climate influences the demography of three dominant sagebrush steppe plants. <i>Ecology</i> , 2011, 92, 75-85.	3.2	98
34	Leaf nutrients, not specific leaf area, are consistent indicators of elevated nutrient inputs. <i>Nature Ecology and Evolution</i> , 2019, 3, 400-406.	7.8	97
35	PLANT TRAITS AND ECOSYSTEM GRAZING EFFECTS: COMPARISON OF U.S. SAGEBRUSH STEPPE AND PATAGONIAN STEPPE. , 2005, 15, 774-792.		94
36	THE INFLUENCE OF CLIMATE AND SPECIES COMPOSITION ON THE POPULATION DYNAMICS OF TEN PRAIRIE FORBS. <i>Ecology</i> , 2008, 89, 3049-3060.	3.2	91

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37	Environmental Variation, Stochastic Extinction, and Competitive Coexistence. <i>American Naturalist</i> , 2008, 172, E186-E195.	2.1	90
38	The effects of intransitive competition on coexistence. <i>Ecology Letters</i> , 2017, 20, 791-800.	6.4	90
39	Abundance of introduced species at home predicts abundance away in herbaceous communities. <i>Ecology Letters</i> , 2011, 14, 274-281.	6.4	88
40	Can life-history traits predict the response of forb populations to changes in climate variability?. <i>Journal of Ecology</i> , 2010, 98, 209-217.	4.0	87
41	NEUTRAL MODELS FAIL TO REPRODUCE OBSERVED SPECIES-AREA AND SPECIES-TIME RELATIONSHIPS IN KANSAS GRASSLANDS. <i>Ecology</i> , 2004, 85, 1265-1272.	3.2	83
42	Integrating spatial and temporal approaches to understanding species richness. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 3633-3643.	4.0	81
43	How to quantify the temporal storage effect using simulations instead of math. <i>Ecology Letters</i> , 2016, 19, 1333-1342.	6.4	80
44	Sensitivity of global soil carbon stocks to combined nutrient enrichment. <i>Ecology Letters</i> , 2019, 22, 936-945.	6.4	75
45	General destabilizing effects of eutrophication on grassland productivity at multiple spatial scales. <i>Nature Communications</i> , 2020, 11, 5375.	12.8	75
46	Predicting invasion in grassland ecosystems: is exotic dominance the real embarrassment of richness?. <i>Global Change Biology</i> , 2013, 19, 3677-3687.	9.5	70
47	Strong self-limitation promotes the persistence of rare species. <i>Ecology</i> , 2012, 93, 456-461.	3.2	69
48	Contrasting Effects of Precipitation Manipulations on Production in Two Sites within the Central Grassland Region, USA. <i>Ecosystems</i> , 2013, 16, 1039-1051.	3.4	64
49	Warming, competition, and <i>Bromus tectorum</i> population growth across an elevation gradient. <i>Ecosphere</i> , 2014, 5, 1-34.	2.2	63
50	Survival rates indicate that correlations between community-weighted mean traits and environments can be unreliable estimates of the adaptive value of traits. <i>Ecology Letters</i> , 2018, 21, 411-421.	6.4	62
51	Increasing effects of chronic nutrient enrichment on plant diversity loss and ecosystem productivity over time. <i>Ecology</i> , 2021, 102, e03218.	3.2	62
52	Linking demography with drivers: climate and competition. <i>Methods in Ecology and Evolution</i> , 2016, 7, 171-183.	5.2	60
53	Water and nitrogen uptake are better associated with resource availability than root biomass. <i>Ecosphere</i> , 2017, 8, e01738.	2.2	59
54	Soil net nitrogen mineralisation across global grasslands. <i>Nature Communications</i> , 2019, 10, 4981.	12.8	57

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55	Out of the shadows: multiple nutrient limitations drive relationships among biomass, light and plant diversity. <i>Functional Ecology</i> , 2017, 31, 1839-1846.	3.6	55
56	The development of forage production and utilization gradients around livestock watering points. <i>Landscape Ecology</i> , 2005, 20, 319-333.	4.2	54
57	Direct and Indirect Effects of Climate Change on a Prairie Plant Community. <i>PLoS ONE</i> , 2009, 4, e6887.	2.5	51
58	Weak effect of climate variability on coexistence in a sagebrush steppe community. <i>Ecology</i> , 2009, 90, 3303-3312.	3.2	47
59	Multi-model comparison highlights consistency in predicted effect of warming on a semi-arid shrub. <i>Global Change Biology</i> , 2018, 24, 424-438.	9.5	47
60	Linking transient dynamics and life history to biological invasion success. <i>Journal of Ecology</i> , 2016, 104, 399-408.	4.0	46
61	Environmental responses, not species interactions, determine synchrony of dominant species in semiarid grasslands. <i>Ecology</i> , 2017, 98, 971-981.	3.2	43
62	Do persistent rare species experience stronger negative frequency dependence than common species?. <i>Global Ecology and Biogeography</i> , 2017, 26, 513-523.	5.8	43
63	Nutrient availability controls the impact of mammalian herbivores on soil carbon and nitrogen pools in grasslands. <i>Global Change Biology</i> , 2020, 26, 2060-2071.	9.5	43
64	Herbivory and eutrophication mediate grassland plant nutrient responses across a global climatic gradient. <i>Ecology</i> , 2018, 99, 822-831.	3.2	42
65	Increased soil temperature and decreased precipitation during early life stages constrain grass seedling recruitment in cold desert restoration. <i>Journal of Applied Ecology</i> , 2019, 56, 2609-2619.	4.0	42
66	Contrasting effects of precipitation manipulations in two Great Plains plant communities. <i>Journal of Vegetation Science</i> , 2017, 28, 238-249.	2.2	41
67	Climate and local environment structure asynchrony and the stability of primary production in grasslands. <i>Global Ecology and Biogeography</i> , 2020, 29, 1177-1188.	5.8	41
68	The response of big sagebrush (<i>Artemisia tridentata</i>) to interannual climate variation changes across its range. <i>Ecology</i> , 2018, 99, 1139-1149.	3.2	40
69	LONG-TERM MAPPED QUADRATS FROM KANSAS PRAIRIE: DEMOGRAPHIC INFORMATION FOR HERBACEOUS PLANTS. <i>Ecology</i> , 2007, 88, 2673-2673.	3.2	38
70	Effects of precipitation on photosynthesis and water potential in <i>Andropogon gerardii</i> and <i>Schizachyrium scoparium</i> in a southern mixed grass prairie. <i>Environmental and Experimental Botany</i> , 2011, 72, 223-231.	4.2	38
71	Spatial heterogeneity in species composition constrains plant community responses to herbivory and fertilisation. <i>Ecology Letters</i> , 2018, 21, 1364-1371.	6.4	38
72	Forecasting climate change impacts on plant populations over large spatial extents. <i>Ecosphere</i> , 2016, 7, e01525.	2.2	35

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73	Nutrients cause grassland biomass to outpace herbivory. <i>Nature Communications</i> , 2020, 11, 6036.	12.8	35
74	Anticipating changes in variability of grassland production due to increases in interannual precipitation variability. <i>Ecosphere</i> , 2014, 5, 1-15.	2.2	34
75	Direct effects dominate responses to climate perturbations in grassland plant communities. <i>Nature Communications</i> , 2016, 7, 11766.	12.8	34
76	Belowground Biomass Response to Nutrient Enrichment Depends on Light Limitation Across Globally Distributed Grasslands. <i>Ecosystems</i> , 2019, 22, 1466-1477.	3.4	34
77	Anthropogenicâ€based regionalâ€scale factors most consistently explain plotâ€level exotic diversity in grasslands. <i>Global Ecology and Biogeography</i> , 2014, 23, 802-810.	5.8	32
78	The relationship between species richness and ecosystem variability is shaped by the mechanism of coexistence. <i>Ecology Letters</i> , 2017, 20, 958-968.	6.4	32
79	Do we need demographic data to forecast plant population dynamics?. <i>Methods in Ecology and Evolution</i> , 2017, 8, 541-551.	5.2	32
80	Response to Comments on â€Productivity Is a Poor Predictor of Plant Species Richnessâ€. <i>Science</i> , 2012, 335, 1441-1441.	12.6	30
81	Hydrologic niches explain species coexistence and abundance in a shrubâ€steppe system. <i>Journal of Ecology</i> , 2020, 108, 998-1008.	4.0	30
82	Mapped quadrats in sagebrush steppe: longâ€term data for analyzing demographic rates and plantâ€plant interactions. <i>Ecology</i> , 2010, 91, 3427-3427.	3.2	29
83	Relationships between plantâ€soil feedbacks and functional traits. <i>Journal of Ecology</i> , 2021, 109, 3411-3423.	4.0	29
84	Coexistence and Coevolution in Fluctuating Environments: Can the Storage Effect Evolve?. <i>American Naturalist</i> , 2011, 178, E76-E84.	2.1	27
85	On testing the role of niche differences in stabilizing coexistence. <i>Functional Ecology</i> , 2008, 22, 934-936.	3.6	26
86	Global impacts of fertilization and herbivore removal on soil net nitrogen mineralization are modulated by local climate and soil properties. <i>Global Change Biology</i> , 2020, 26, 7173-7185.	9.5	25
87	Nutrient enrichment increases invertebrate herbivory and pathogen damage in grasslands. <i>Journal of Ecology</i> , 2022, 110, 327-339.	4.0	25
88	When should plant population models include age structure?. <i>Journal of Ecology</i> , 2014, 102, 531-543.	4.0	24
89	Fourteen years of mapped, permanent quadrats in a northern mixed prairie, USA. <i>Ecology</i> , 2011, 92, 1703-1703.	3.2	23
90	Matching the forecast horizon with the relevant spatial and temporal processes and data sources. <i>Ecography</i> , 2020, 43, 1729-1739.	4.5	23

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91	Life form influences survivorship patterns for 109 herbaceous perennials from six semi-arid ecosystems. <i>Journal of Vegetation Science</i> , 2014, 25, 947-954.	2.2	21
92	Size-by-environment interactions: a neglected dimension of species' responses to environmental variation. <i>Ecology Letters</i> , 2018, 21, 1757-1770.	6.4	21
93	The plant diversity sampling design for The National Ecological Observatory Network. <i>Ecosphere</i> , 2019, 10, e02603.	2.2	19
94	Biotic vs abiotic controls on temporal sensitivity of primary production to precipitation across North American drylands. <i>New Phytologist</i> , 2021, 231, 2150-2161.	7.3	18
95	Indirect Effects of Environmental Change in Resource Competition Models. <i>American Naturalist</i> , 2015, 186, 766-776.	2.1	17
96	Technical Comment on Pande <i>et al</i> . (2020): Why invasion analysis is important for understanding coexistence. <i>Ecology Letters</i> , 2020, 23, 1721-1724.	6.4	17
97	Nutrient identity modifies the destabilising effects of eutrophication in grasslands. <i>Ecology Letters</i> , 2022, 25, 754-765.	6.4	17
98	Comment on "Worldwide evidence of a unimodal relationship between productivity and plant species richness". <i>Science</i> , 2016, 351, 457-457.	12.6	16
99	Weak interspecific interactions in a sagebrush steppe? Conflicting evidence from observations and experiments. <i>Ecology</i> , 2018, 99, 1621-1632.	3.2	16
100	What processes must we understand to forecast regional-scale population dynamics?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20202219.	2.6	16
101	Impacts of climate change on multiple use management of Bureau of Land Management land in the Intermountain West, USA. <i>Ecosphere</i> , 2020, 11, e03286.	2.2	14
102	Temporal rarity is a better predictor of local extinction risk than spatial rarity. <i>Ecology</i> , 2021, 102, e03504.	3.2	14
103	Species loss due to nutrient addition increases with spatial scale in global grasslands. <i>Ecology Letters</i> , 2021, 24, 2100-2112.	6.4	13
104	Cover and density of semi-desert grassland plants in permanent quadrats mapped from 1915 to 1947. <i>Ecology</i> , 2012, 93, 1492-1492.	3.2	12
105	Nitrogen increases early-stage and slows late-stage decomposition across diverse grasslands. <i>Journal of Ecology</i> , 2022, 110, 1376-1389.	4.0	12
106	Ecosystem functional response across precipitation extremes in a sagebrush steppe. <i>PeerJ</i> , 2018, 6, e4485.	2.0	11
107	Direct effects of warming increase woody plant abundance in a subarctic wetland. <i>Ecology and Evolution</i> , 2018, 8, 2868-2879.	1.9	10
108	Influence of water Availability on Photosynthesis, Water Potential, Leaf $\delta^{13}C$, and Phenology in Dominant C_4 Grasses In Kansas, USA. <i>Transactions of the Kansas Academy of Science</i> , 2015, 118, 173-193.	0.1	9

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109	Agreement and Uncertainty Among Climate Change Impact Models: A Synthesis of Sagebrush Steppe Vegetation Projections. <i>Rangeland Ecology and Management</i> , 2021, 75, 119-129.	2.3	9
110	Can the past predict the future? Experimental tests of historically based population models. <i>Global Change Biology</i> , 2013, 19, 1793-1803.	9.5	7
111	Mycorrhization rates of two grasses following alterations in moisture inputs in a southern mixed grass prairie. <i>Applied Soil Ecology</i> , 2012, 60, 56-60.	4.3	6
112	Toward a “modern coexistence theory” for the discrete and spatial. <i>Ecological Monographs</i> , 2022, 92, .	5.4	6
113	Cover, density, and demographics of shortgrass steppe plants mapped 1997–2010 in permanent grazed and ungrazed quadrats. <i>Ecology</i> , 2013, 94, 1435-1435.	3.2	5
114	Climate change, snow mold and the <i>Bromus tectorum</i> invasion: mixed evidence for release from cold weather pathogens. <i>AoB PLANTS</i> , 2019, 11, plz043.	2.3	5
115	Water availability dictates how plant traits predict demographic rates. <i>Ecology</i> , 2022, 103, .	3.2	5
116	Quadrat-based monitoring of desert grassland vegetation at the Jornada Experimental Range, New Mexico, 1915–2016. <i>Ecology</i> , 2021, 102, e03530.	3.2	4
117	LOTVS: A global collection of permanent vegetation plots. <i>Journal of Vegetation Science</i> , 2022, 33, .	2.2	4
118	A critical comparison of integral projection and matrix projection models for demographic analysis: Comment. <i>Ecology</i> , 2022, 103, e3605.	3.2	2
119	The influence of life-history strategy on ecosystem sensitivity to resource fluctuations. <i>Journal of Ecology</i> , 2021, 109, 4081-4091.	4.0	1