William Stanley Harpole

List of Publications by Year
in descending order

106 papers	19,686 citations	47409 49 h-index	33145 104 g-index
119 all docs	119 docs citations	119 times ranked	23433 citing authors

#	Article	IF	Citations
1	An integrative environmental pollen diversity assessment and its importance for the Sustainable Development Goals. Plants People Planet, 2022, 4, 110-121.	1.6	11
2	Knowledge sharing for shared success in the decade on ecosystem restoration. Ecological Solutions and Evidence, 2022, 3, e12117.	0.8	18
3	Nitrogen increases earlyâ€stage and slows lateâ€stage decomposition across diverse grasslands. Journal of Ecology, 2022, 110, 1376-1389.	1.9	12
4	Is the bryophyte soil diaspore bank buffered against nutrient enrichment and grazing exclusion?. Plant and Soil, 2022, 477, 487-499.	1.8	0
5	The potential of multispectral imaging flow cytometry for environmental monitoring. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2022, 101, 782-799.	1.1	4
6	Increasing effects of chronic nutrient enrichment on plant diversity loss and ecosystem productivity over time. Ecology, 2021, 102, e03218.	1.5	62
7	Beyond nitrogen: phosphorus â€" estimating the minimum niche dimensionality for resource competition between phytoplankton. Ecology Letters, 2021, 24, 761-771.	3.0	16
8	Phylogenetic and metabolic diversity have contrasting effects on the ecological functioning of bacterial communities. FEMS Microbiology Ecology, 2021, 97, .	1.3	3
9	Herbaceous perennial plants with short generation time have stronger responses to climate anomalies than those with longer generation time. Nature Communications, 2021, 12, 1824.	5.8	41
10	Responses of plant diversity to precipitation change are strongest at local spatial scales and in drylands. Nature Communications, 2021, 12, 2489.	5.8	43
11	Community change can buffer chronic nitrogen impacts, but multiple nutrients tip the scale. Ecology, 2021, 102, e03355.	1.5	6
12	General statistical scaling laws for stability in ecological systems. Ecology Letters, 2021, 24, 1474-1486.	3.0	32
13	Reply to: Empirical pressure-response relations can benefit assessment of safe operating spaces. Nature Ecology and Evolution, 2021, 5, 1080-1081.	3.4	1
14	Species loss due to nutrient addition increases with spatial scale in global grasslands. Ecology Letters, 2021, 24, 2100-2112.	3.0	13
15	Temporal rarity is a better predictor of local extinction risk than spatial rarity. Ecology, 2021, 102, e03504.	1.5	14
16	Integrating the underlying structure of stochasticity into community ecology. Ecology, 2020, 101, e02922.	1.5	113
17	We need more realistic climate change experiments for understanding ecosystems of the future. Global Change Biology, 2020, 26, 325-327.	4.2	65
18	Understanding plant communities of the future requires filling knowledge gaps. Global Change Biology, 2020, 26, 328-329.	4.2	4

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19	Predicting species abundances in a grassland biodiversity experiment: Tradeâ€offs between model complexity and generality. Journal of Ecology, 2020, 108, 774-787.	1.9	23
20	Resourceâ€enhancing global changes drive a wholeâ€ecosystem shift to faster cycling but decrease diversity. Ecology, 2020, 101, e03178.	1.5	16
21	Thresholds for ecological responses to global change do not emerge from empirical data. Nature Ecology and Evolution, 2020, 4, 1502-1509.	3.4	151
22	gauseR: Simple methods for fitting Lotkaâ€Volterra models describing Gauseâ€™s â€œStruggle for Existenceâ€. Ecology and Evolution, 2020, 10, 13275-13283.	0.8	17
23	Reducing dispersal limitation via seed addition increases species richness but not aboveâ€ground biomass. Ecology Letters, 2020, 23, 1442-1450.	3.0	19
24	Dominant native and nonâ€native graminoids differ in key leaf traits irrespective of nutrient availability. Global Ecology and Biogeography, 2020, 29, 1126-1138.	2.7	11
25	Resilience trinity: safeguarding ecosystem functioning and services across three different time horizons and decision contexts. Oikos, 2020, 129, 445-456.	1.2	33
26	Climate and local environment structure asynchrony and the stability of primary production in grasslands. Global Ecology and Biogeography, 2020, 29, 1177-1188.	2.7	41
27	How to estimate complementarity and selection effects from an incomplete sample of species. Methods in Ecology and Evolution, 2019, 10, 2141-2152.	2.2	20
28	Linking local species coexistence to ecosystem functioning: a conceptual framework from ecological first principles in grassland ecosystems. Advances in Ecological Research, 2019, 61, 265-296.	1.4	3
29	Plant species natural abundances are determined by their growth and modification of soil resources in monoculture. Plant and Soil, 2019, 445, 273-287.	1.8	4
30	Temperature and stoichiometric dependence of phytoplankton traits. Ecology, 2019, 100, e02875.	1.5	12
31	Scale Both Confounds and Informs Characterization of Species Coexistence in Empirical Systems. American Naturalist, 2019, 194, 794-806.	1.0	8
32	Belowground Biomass Response to Nutrient Enrichment Depends on Light Limitation Across Globally Distributed Grasslands. Ecosystems, 2019, 22, 1466-1477.	1.6	34
33	Leaf nutrients, not specific leaf area, are consistent indicators of elevated nutrient inputs. Nature Ecology and Evolution, 2019, 3, 400-406.	3.4	97
34	Nutrients and environment influence arbuscular mycorrhizal colonization both independently and interactively in Schizachyrium scoparium. Plant and Soil, 2018, 425, 493-506.	1.8	25
35	Herbivory and eutrophication mediate grassland plant nutrient responses across a global climatic gradient. Ecology, 2018, 99, 822-831.	1.5	42
36	Integrating community assembly and biodiversity to better understand ecosystem function: the Community Assembly and the Functioning of Ecosystems (<scp>CAFE</scp>) approach. Ecology Letters, 2018, 21, 167-180.	3.0	94

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37	Herbivores safeguard plant diversity by reducing variability in dominance. Journal of Ecology, 2018, 106, 101-112.	1.9	40
38	Biodiversity change is uncoupled from species richness trends: Consequences for conservation and monitoring. Journal of Applied Ecology, 2018, 55, 169-184.	1.9	435
39	Local loss and spatial homogenization of plant diversity reduce ecosystem multifunctionality. Nature Ecology and Evolution, 2018, 2, 50-56.	3.4	172
40	Spatial heterogeneity in species composition constrains plant community responses to herbivory and fertilisation. Ecology Letters, 2018, 21, 1364-1371.	3.0	38
41	Biochar and manure alter few aspects of prairie development: A field test. Agriculture, Ecosystems and Environment, 2017, 236, 78-87.	2.5	33
42	Phosphorus resource partitioning shapes phosphorus acquisition and plant species abundance in grasslands. Nature Plants, 2017, 3, 16224.	4.7	63
43	A decade of insights into grassland ecosystem responses to global environmental change. Nature Ecology and Evolution, 2017, 1, 118.	3.4	82
44	Out of the shadows: multiple nutrient limitations drive relationships among biomass, light and plant diversity. Functional Ecology, 2017, 31, 1839-1846.	1.7	55
45	Mammalian Herbivores Alter the Population Growth and Spatial Establishment of an Early-Establishing Grassland Species. PLoS ONE, 2016, 11, e0147715.	1.1	5
46	Climate modifies response of non-native and native species richness to nutrient enrichment. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150273.	1.8	34
47	The influence of balanced and imbalanced resource supply on biodiversityâ€"functioning relationship across ecosystems. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150283.	1.8	43
48	Transitions and invasion along a grazing gradient in experimental California grasslands. Ecology, 2016, 97, 2319-2330.	1.5	20
49	Addition of multiple limiting resources reduces grassland diversity. Nature, 2016, 537, 93-96.	13.7	355
50	Assessing in situ dominance pattern of phytoplankton classes by dominance analysis as a proxy for realized niches. Harmful Algae, 2016, 58, 74-84.	2.2	5
51	Comment on â€œWorldwide evidence of a unimodal relationship between productivity and plant species richnessâ€. Science, 2016, 351, 457-457.	6.0	16
52	Integrative modelling reveals mechanisms linking productivity and plant species richness. Nature, 2016, 529, 390-393.	13.7	564
53	The hydrological niche and spatially structured species coâ€existence. Journal of Vegetation Science, 2016, 27, 215-216.	1.1	0
54	How does plant chemical diversity contribute to biodiversity at higher trophic levels?. Current Opinion in Insect Science, 2016, 14, 46-55.	2.2	28

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55	Grassland productivity limited by multiple nutrients. Nature Plants, 2015, 1, 15080.	4.7	403
56	Grassland Arthropods Are Controlled by Direct and Indirect Interactions with Cattle but Are Largely Unaffected by Plant Provenance. PLoS ONE, 2015, 10, e0129823.	1.1	14
57	Anthropogenic nitrogen deposition predicts local grassland primary production worldwide. Ecology, 2015, 96, 1459-1465.	1.5	143
58	Signatures of nutrient limitation and coâ€limitation: responses of autotroph internal nutrient concentrations to nitrogen and phosphorus additions. Oikos, 2015, 124, 113-121.	1.2	109
59	Consistent responses of soil microbial communities to elevated nutrient inputs in grasslands across the globe. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10967-10972.	3.3	1,023
60	Plant speciesâ€™ origin predicts dominance and response to nutrient enrichment and herbivores in global grasslands. Nature Communications, 2015, 6, 7710.	5.8	143
61	Plant diversity predicts beta but not alpha diversity of soil microbes across grasslands worldwide. Ecology Letters, 2015, 18, 85-95.	3.0	612
62	Evaluating Ecosystem Services Provided by Non-Native Species: An Experimental Test in California Grasslands. PLoS ONE, 2014, 9, e75396.	1.1	13
63	Anthropogenicâ€based regionalâ€scale factors most consistently explain plotâ€level exotic diversity in grasslands. Global Ecology and Biogeography, 2014, 23, 802-810.	2.7	32
64	Causal networks clarify productivityâ€“richness interrelations, bivariate plots do not. Functional Ecology, 2014, 28, 787-798.	1.7	106
65	On the importance of accurate reporting: a response to comments on â€˜Biochar and its effects on plant productivity and nutrient cycling: a metaâ€analysisâ€™. GCB Bioenergy, 2014, 6, 172-175.	2.5	9
66	Eutrophication weakens stabilizing effects of diversity in natural grasslands. Nature, 2014, 508, 521-525.	13.7	409
67	Cyanobacteria dominance influences resource use efficiency and community turnover in phytoplankton and zooplankton communities. Ecology Letters, 2014, 17, 464-474.	3.0	128
68	Finding generality in ecology: a model for globally distributed experiments. Methods in Ecology and Evolution, 2014, 5, 65-73.	2.2	353
69	Herbivores and nutrients control grassland plant diversity via light limitation. Nature, 2014, 508, 517-520.	13.7	669
70	Predicting invasion in grassland ecosystems: is exotic dominance the real embarrassment of richness?. Global Change Biology, 2013, 19, 3677-3687.	4.2	70
71	Biochar and its effects on plant productivity and nutrient cycling: a metaâ€analysis. GCB Bioenergy, 2013, 5, 202-214.	2.5	1,175
72	Consequences of plantâ€“soil feedbacks in invasion. Journal of Ecology, 2013, 101, 298-308.	1.9	174

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73	Lifeâ€history constraints in grassland plant species: a growthâ€defence tradeâ€off is the norm. Ecology Letters, 2013, 16, 513-521.	3.0	165
74	Global biogeography of autotroph chemistry: is insolation a driving force?. Oikos, 2013, 122, 1121-1130.	1.2	50
75	Regional Contingencies in the Relationship between Aboveground Biomass and Litter in the Worldâ€™s Grasslands. PLoS ONE, 2013, 8, e54988.	1.1	27
76	Response to Comments on â€œProductivity Is a Poor Predictor of Plant Species Richnessâ€ Science, 2012, 335, 1441-1441.	6.0	30
77	CAUSES AND CONSEQUENCES OF BIODIVERSITY LOSS ACROSS GLOBAL ECOSYSTEMS. Limnology and Oceanography Bulletin, 2012, 21, 98-99.	0.2	1
78	Rethinking Community Assembly through the Lens of Coexistence Theory. Annual Review of Ecology, Evolution, and Systematics, 2012, 43, 227-248.	3.8	1,014
79	High plant diversity is needed to maintain ecosystem services. Nature, 2011, 477, 199-202.	13.7	1,195
80	Abundance of introduced species at home predicts abundance away in herbaceous communities. Ecology Letters, 2011, 14, 274-281.	3.0	88
81	Nutrient coâ€limitation of primary producer communities. Ecology Letters, 2011, 14, 852-862.	3.0	747
82	Productivity Is a Poor Predictor of Plant Species Richness. Science, 2011, 333, 1750-1753.	6.0	463
83	A test of the niche dimension hypothesis in an arid annual grassland. Oecologia, 2011, 166, 197-205.	0.9	25
84	Strong feeding preference of an exotic generalist herbivore for an exotic forb: a case of invasional antagonism. Biological Invasions, 2010, 12, 3025-3031.	1.2	12
85	Phylogenetic patterns differ for native and exotic plant communities across a richness gradient in Northern California. Diversity and Distributions, 2010, 16, 892-901.	1.9	56
86	Nitrogen enrichment and plant communities. Annals of the New York Academy of Sciences, 2010, 1195, 46-61.	1.8	132
87	Plant Water Use Affects Competition for Nitrogen: Why Drought Favors Invasive Species in California. American Naturalist, 2010, 175, 85-97.	1.0	67
88	Herbivore metabolism and stoichiometry each constrain herbivory at different organizational scales across ecosystems. Ecology Letters, 2009, 12, 516-527.	3.0	144
89	Separating the influence of resource â€˜availabilityâ€™ from resource â€˜imbalanceâ€™ on productivityâ€“diversity relationships. Ecology Letters, 2009, 12, 475-487.	3.0	198
90	CO2, nitrogen, and diversity differentially affect seed production of prairie plants. Ecology, 2009, 90, 1810-1820.	1.5	24

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91	The impact of invasion and subsequent removal of an exotic thistle, Cynara cardunculus, on CO2 and H2O vapor exchange in a coastal California grassland. Biological Invasions, 2008, 10, 1073-1084.	1.2	18
92	A crossâ€system synthesis of consumer and nutrient resource control on producer biomass. Ecology Letters, 2008, 11, 740-755.	3.0	334
93	REVEALING HOW SPECIES LOSS AFFECTS ECOSYSTEM FUNCTION: THE TRAIT-BASED PRICE EQUATION PARTITION. Ecology, 2008, 89, 269-279.	1.5	62
94	From selection to complementarity: shifts in the causes of biodiversityâ€“productivity relationships in a long-term biodiversity experiment. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 871-876.	1.2	375
95	Consumer versus resource control of producer diversity depends on ecosystem type and producer community structure. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10904-10909.	3.3	302
96	Grassland species loss resulting from reduced niche dimension. Nature, 2007, 446, 791-793.	13.7	481
97	Global analysis of nitrogen and phosphorus limitation of primary producers in freshwater, marine and terrestrial ecosystems. Ecology Letters, 2007, 10, 1135-1142.	3.0	3,460
98	Frequency-dependence stabilizes competitive interactions among four annual plants. Ecology Letters, 2007, 10, 1164-1169.	3.0	46
99	Ecosystem responses to water and nitrogen amendment in a California grassland. Global Change Biology, 2007, 13, 2341-2348.	4.2	306
100	Resource Limitation. , 2007, , 119-127.		8
101	Resource-Ratio Theory and the Control of Invasive Plants. Plant and Soil, 2006, 280, 23-27.	1.8	17
102	Non-neutral patterns of species abundance in grassland communities. Ecology Letters, 2005, 9, 051017054245003.	3.0	156
103	Recent advances in ecological stoichiometry: insights for population and community ecology. Oikos, 2005, 109, 29-39.	1.2	174
104	Mechanisms responsible for the positive diversity-productivity relationship in Minnesota grasslands. Ecology Letters, 2004, 7, 661-668.	3.0	184
105	DOES METABOLIC THEORY APPLY TO COMMUNITY ECOLOGY? IT'S A MATTER OF SCALE. Ecology, 2004, 85, 1797-1799.	1.5	88
106	Invasion, competitive dominance, and resource use by exotic and native California grassland species. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 13384-13389.	3.3	547