Tiffany M Knight

List of Publications by Year
in descending order

129 papers	9,871 citations	57758 44 h-index	39675 94 g-index
144 all docs	144 docs citations	144 times ranked	10362 citing authors

#	Article	IF	Citations
1	POLLEN LIMITATION OF PLANT REPRODUCTION: ECOLOGICAL AND EVOLUTIONARY CAUSES AND CONSEQUENCES. Ecology, 2004, 85, 2408-2421.	3.2	1,004
2	Pollen Limitation of Plant Reproduction: Pattern and Process. Annual Review of Ecology, Evolution, and Systematics, 2005, 36, 467-497.	8.3	888
3	Plant-Pollinator Interactions over 120 Years: Loss of Species, Co-Occurrence, and Function. Science, 2013, 339, 1611-1615.	12.6	840
4	Trophic cascades across ecosystems. Nature, 2005, 437, 880-883.	27.8	450
5	LONGEVITY CAN BUFFER PLANT AND ANIMAL POPULATIONS AGAINST CHANGING CLIMATIC VARIABILITY. Ecology, 2008, 89, 19-25.	3.2	386
6	A synthesis of plant invasion effects on biodiversity across spatial scales. American Journal of Botany, 2011, 98, 539-548.	1.7	278
7	Invasive Plants Have Scale-Dependent Effects on Diversity by Altering Species-Area Relationships. Science, 2013, 339, 316-318.	12.6	261
8	Pollination decays in biodiversity hotspots. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 956-961.	7.1	259
9	Scaleâ€dependent effect sizes of ecological drivers on biodiversity: why standardised sampling is not enough. Ecology Letters, 2013, 16, 17-26.	6.4	250
10	Drought-induced mosquito outbreaks in wetlands. Ecology Letters, 2003, 6, 1017-1024.	6.4	223
11	Ecosystem decay exacerbates biodiversity loss with habitat loss. Nature, 2020, 584, 238-243.	27.8	214
12	How do plant ecologists use matrix population models?. Ecology Letters, 2011, 14, 1-8.	6.4	205
13	Embracing scaleâ€dependence to achieve a deeper understanding of biodiversity and its change across communities. Ecology Letters, 2018, 21, 1737-1751.	6.4	204
14	A quantitative synthesis of pollen supplementation experiments highlights the contribution of resource reallocation to estimates of pollen limitation. American Journal of Botany, 2006, 93, 271-277.	1.7	198
15	Causes and consequences of variation in plant population growth rate: a synthesis of matrix population models in a phylogenetic context. Ecology Letters, 2010, 13, 1182-1197.	6.4	161
16	General guidelines for invasive plant management based on comparative demography of invasive and native plant populations. Journal of Applied Ecology, 2008, 45, 1124-1133.	4.0	156
17	Putting plant resistance traits on the map: a test of the idea that plants are better defended at lower latitudes. New Phytologist, 2011, 191, 777-788.	7.3	155
18	Deer Facilitate Invasive Plant Success in a Pennsylvania Forest Understory. Natural Areas Journal, 2009, 29, 110-116.	0.5	154

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19	Correlations between physical and chemical defences in plants: tradeoffs, syndromes, or just many different ways to skin a herbivorous cat?. New Phytologist, 2013, 198, 252-263.	7.3	124
20	Inter-Annual Associations Between Precipitation and Human Incidence of West Nile Virus in the United States. Vector-Borne and Zoonotic Diseases, 2007, 7, 337-343.	1.5	112
21	Floral density, pollen limitation, and reproductive success in Trillium grandiflorum. Oecologia, 2003, 137, 557-563.	2.0	104
22	Ability of Matrix Models to Explain the Past and Predict the Future of Plant Populations. Conservation Biology, 2013, 27, 968-978.	4.7	104
23	Effects of herbivory and its timing across populations of Trillium grandiflorum (Liliaceae). American Journal of Botany, 2003, 90, 1207-1214.	1.7	102
24	Plant Population Dynamics, Pollinator Foraging, and the Selection of Selfâ€Fertilization. American Naturalist, 2005, 166, 169-183.	2.1	101
25	Widespread vulnerability of flowering plant seed production to pollinator declines. Science Advances, 2021, 7, eabd3524.	10.3	92
26	Apparent competition with an invasive plant hastens the extinction of an endangered lupine. Ecology, 2010, 91, 2261-2271.	3.2	88
27	FIRE GENERATES SPATIAL GRADIENTS IN HERBIVORY: AN EXAMPLE FROM A FLORIDA SANDHILL ECOSYSTEM. Ecology, 2005, 86, 587-593.	3.2	87
28	Measurement of Biodiversity (MoB): A method to separate the scaleâ€dependent effects of species abundance distribution, density, and aggregation on diversity change. Methods in Ecology and Evolution, 2019, 10, 258-269.	5.2	87
29	Land use and pollinator dependency drives global patterns of pollen limitation in the Anthropocene. Nature Communications, 2020, 11, 3999.	12.8	84
30	Ovule number per flower in a world of unpredictable pollination. American Journal of Botany, 2009, 96, 1159-1167.	1.7	81
31	Competition overwhelms the positive plantâ€“soil feedback generated by an invasive plant. Oecologia, 2017, 183, 211-220.	2.0	70
32	Population growth rate of a common understory herb decreases non-linearly across a gradient of deer herbivory. Forest Ecology and Management, 2009, 257, 1095-1103.	3.2	67
33	Temporal scaleâ€dependence of plantâ€“pollinator networks. Oikos, 2020, 129, 1289-1302.	2.7	66
34	Seeing through the static: the temporal dimension of plantâ€“animal mutualistic interactions. Ecology Letters, 2021, 24, 149-161.	6.4	66
35	We need more realistic climate change experiments for understanding ecosystems of the future. Global Change Biology, 2020, 26, 325-327.	9.5	65
36	Allee Effects, Immigration, and the Evolution of Speciesâ€™ Niches. American Naturalist, 2004, 163, 253-262.	2.1	62

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37	A phylogenetically controlled analysis of the roles of reproductive traits in plant invasions. Oecologia, 2011, 166, 1009-1017.	2.0	60
38	Automated conservation assessment of the orchid family with deep learning. Conservation Biology, 2021, 35, 897-908.	4.7	59
39	Comparison of the herbivore defense and competitive ability of ancestral and modern genotypes of an invasive plant, Lespedeza cuneata. Oikos, 2011, 120, 1413-1419.	2.7	57
40	Empirical tests of lifeâ€history evolution theory using phylogenetic analysis of plant demography. Journal of Ecology, 2010, 98, 334-344.	4.0	56
41	Population-level Consequences of Herbivory Timing in Trillium Grandiflorum. American Midland Naturalist, 2007, 157, 27-38.	0.4	53
42	Is reproduction of endemic plant species particularly pollen limited in biodiversity hotspots?. Oikos, 2010, 119, 1192-1200.	2.7	53
43	Greater sexual reproduction contributes to differences in demography of invasive plants and their noninvasive relatives. Ecology, 2013, 94, 995-1004.	3.2	49
44	Predation on mutualists can reduce the strength of trophic cascades. Ecology Letters, 2006, 9, 1173-1178.	6.4	48
45	A framework for disentangling ecological mechanisms underlying the island speciesâ€“area relationship. Frontiers of Biogeography, 2019, 11, .	1.8	46
46	Evolutionary Dynamics as a Component of Stageâ€Structured Matrix Models: An Example Using Trillium grandiflorum. American Naturalist, 2008, 172, 375-392.	2.1	44
47	Breeding system and pollination ecology of introduced plants compared to their native relatives. American Journal of Botany, 2009, 96, 1544-1550.	1.7	43
48	Current climate, isolation and history drive global patterns of tree phylogenetic endemism. Global Ecology and Biogeography, 2020, 29, 4-15.	5.8	43
49	Responses of plant diversity to precipitation change are strongest at local spatial scales and in drylands. Nature Communications, 2021, 12, 2489.	12.8	43
50	Effects of interspecific competition, predation, and their interaction on survival and development time of immature Anopheles quadrimaculatus. Journal of Vector Ecology, 2004, 29, 277-84.	1.0	43
51	Pollen analysis using multispectral imaging flow cytometry and deep learning. New Phytologist, 2021, 229, 593-606.	7.3	42
52	Herbaceous perennial plants with short generation time have stronger responses to climate anomalies than those with longer generation time. Nature Communications, 2021, 12, 1824.	12.8	41
53	Antagonistic effects of seed dispersal and herbivory on plant migration. Ecology Letters, 2006, 9, 319-326.	6.4	39
54	Will the Use of Less Fecund Cultivars Reduce the Invasiveness of Perennial Plants?. BioScience, 2011, 61, 816-822.	4.9	38

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55	Seed dispersal by pulp consumers, not â€œlegitimateâ€•seed dispersers, increases Guettarda viburnoides population growth. Ecology, 2010, 91, 2684-2695.	3.2	36
56	Comparing the reproductive success and pollination biology of an invasive plant to its rare and common native congeners: a case study in the genus Cirsium (Asteraceae). Biological Invasions, 2011, 13, 905-917.	2.4	36
57	Additive and nonâ€•additive effects of birch genotypic diversity on arthropod herbivory in a longâ€•term field experiment. Oikos, 2015, 124, 697-706.	2.7	36
58	Effects of eutrophication and snails on Eurasian watermilfoil (Myriophyllum spicatum) invasion. Biological Invasions, 2006, 8, 1643-1649.	2.4	34
59	Interactive Effects of Harvest and Deer Herbivory on the Population Dynamics of American Ginseng. Conservation Biology, 2009, 23, 719-728.	4.7	34
60	Herbivory and population dynamics of invasive and native Lespedeza. Oecologia, 2009, 161, 57-66.	2.0	33
61	Risks and Rewards: Assessing the Effectiveness and Safety of Classical Invasive Plant Biocontrol by Arthropods. BioScience, 2019, 69, 247-258.	4.9	31
62	Local adaptation constrains drought tolerance in a tropical foundation tree. Journal of Ecology, 2020, 108, 1540-1552.	4.0	31
63	The myriad of complex demographic responses of terrestrial mammals to climate change and gaps of knowledge: A global analysis. Journal of Animal Ecology, 2021, 90, 1398-1407.	2.8	30
64	Dissecting macroecological and macroevolutionary patterns of forest biodiversity across the Hawaiian archipelago. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16436-16441.	7.1	28
65	Global geographic patterns of heterospecific pollen receipt help uncover potential ecological and evolutionary impacts across plant communities worldwide. Scientific Reports, 2019, 9, 8086.	3.3	28
66	Shifts in pollinator composition and behavior cause slow interaction accumulation with area in plantâ€“pollinator networks. Ecology, 2012, 93, 2329-2335.	3.2	27
67	COMMUNITY GENETICS: TOWARD A SYNTHESIS. Ecology, 2003, 84, 580-582.	3.2	26
68	POPULATION-LEVEL EFFECTS OF AUGMENTED HERBIVORY ONLESPEDEZA CUNEATA: IMPLICATIONS FOR BIOLOGICAL CONTROL. , 2007, 17, 965-971.		26
69	A review of European studies on pollination networks and pollen limitation, and a case study designed to fill in a gap. AoB PLANTS, 2018, 10, ply068.	2.3	26
70	Mediterranean marine protected areas have higher biodiversity via increased evenness, not abundance. Journal of Applied Ecology, 2020, 57, 578-589.	4.0	25
71	Early Successional Microhabitats Allow the Persistence of Endangered Plants in Coastal Sand Dunes. PLoS ONE, 2015, 10, e0119567.	2.5	24
72	Lagged and dormant season climate better predict plant vital rates than climate during the growing season. Global Change Biology, 2021, 27, 1927-1941.	9.5	24

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73	Demographic amplification is a predictor of invasiveness among plants. Nature Communications, 2019, 10, 5602.	12.8	23
74	Hawaiâ€˜i forest review: Synthesizing the ecology, evolution, and conservation of a model system. Perspectives in Plant Ecology, Evolution and Systematics, 2021, 52, 125631.	2.7	23
75	Similar factors underlie tree abundance in forests in native and alien ranges. Global Ecology and Biogeography, 2020, 29, 281-294.	5.8	21
76	Habitat area affects arthropod communities directly and indirectly through top predators. Ecography, 2007, 30, 359-366.	4.5	20
77	Plant traits moderate pollen limitation of introduced and native plants: a phylogenetic metaâ€anal ysis of global scale. New Phytologist, 2019, 223, 2063-2075.	7.3	20
78	Intraspecific trait variation and reversals of trait strategies across key climate gradients in native Hawaiian plants and non-native invaders. Annals of Botany, 2021, 127, 553-564.	2.9	20
79	Habitat size modulates the influence of heterogeneity on species richness patterns in a model zooplankton community. Ecology, 2017, 98, 1651-1659.	3.2	19
80	Effects of community-level grassland management on the non-target rare annual Agalinis auriculata. Biological Conservation, 2009, 142, 798-805.	4.1	18
81	Is heterospecific pollen receipt the missing link in understanding pollen limitation of plant reproduction?. American Journal of Botany, 2020, 107, 845-847.	1.7	18
82	Knowledge sharing for shared success in the decade on ecosystem restoration. Ecological Solutions and Evidence, 2022, 3, e12117.	2.0	18
83	Consequences of Density Dependence for Management of a Stage-Structured Invasive Plant (Alliaria) Tj ETQq1 1 0.784314 rgBT /Ove	0.4	17
84	Fire indirectly benefits fitness in two invasive species. Biological Invasions, 2016, 18, 1265-1273.	2.4	17
85	Exotic plant species receive adequate pollinator service despite variable integration into plantâ€“pollinator networks. Oecologia, 2018, 187, 135-142.	2.0	17
86	Synthesizing tree biodiversity data to understand global patterns and processes of vegetation. Journal of Vegetation Science, 2021, 32, e13021.	2.2	17
87	Positive frequency dependence undermines the success of restoration using historical disturbance regimes. Ecology Letters, 2015, 18, 883-891.	6.4	16
88	Increased drought frequency alters the optimal management strategy of an endangered plant. Biological Conservation, 2016, 203, 243-251.	4.1	16
89	Habitat patch size alters the importance of dispersal for species diversity in an experimental freshwater community. Ecology and Evolution, 2017, 7, 5774-5783.	1.9	16
90	Diel-scale temporal dynamics in the abundance and composition of pollinators in the Arctic summer. Scientific Reports, 2020, 10, 21187.	3.3	14

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91	A multiscale framework for disentangling the roles of evenness, density, and aggregation on diversity gradients. Ecology, 2021, 102, e03233.	3.2	14
92	A seasonal, densityâ€dependent model for the management of an invasive weed. Ecological Applications, 2013, 23, 1893-1905.	3.8	13
93	Effects of seed density and proximity to refuge habitat on seed predation rates for a rare and a common Lupinus species. American Journal of Botany, 2017, 104, 389-398.	1.7	13
94	GLMM BACI environmental impact analysis shows coastal dune restoration reduces seed predation on an endangered plant. Restoration Ecology, 2018, 26, 1190-1194.	2.9	13
95	<scp>bRacatus</scp>: A method to estimate the accuracy and biogeographical status of georeferenced biological data. Methods in Ecology and Evolution, 2021, 12, 1609-1619.	5.2	13
96	Matrix population models from 20 studies of perennial plant populations. Ecology, 2012, 93, 951-951.	3.2	12
97	More individuals drive the species energyâ€“area relationship in an experimental zooplankton community. Oikos, 2015, 124, 1065-1070.	2.7	12
98	On the utility of population models for invasive plant management: response to Evans and Davis. , 2011, 21, 614-618.		11
99	Nonadditive effects among threats on rare plant species. Conservation Biology, 2020, 34, 1029-1034.	4.7	11
100	Pollinator sampling methods influence community patterns assessments by capturing species with different traits and at different abundances. Ecological Indicators, 2021, 132, 108284.	6.3	11
101	Role of multiple invasion mechanisms and their interaction in regulating the population dynamics of an exotic tree. Journal of Applied Ecology, 2018, 55, 885-894.	4.0	10
102	Phylogenetic and functional distinctiveness explain alien plant population responses to competition. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201070.	2.6	10
103	Fire alters diversity, composition, and structure of dry tropical forests in the Eastern Ghats. Ecology and Evolution, 2021, 11, 6593-6603.	1.9	10
104	Pollinator dependence but no pollen limitation for eight plants occurring north of the Arctic Circle. Ecology and Evolution, 2020, 10, 13664-13672.	1.9	9
105	Temporal variation in the roles of exotic and native plant species in plantâ€“pollinator networks. Ecosphere, 2020, 11, e02981.	2.2	9
106	Areas Requiring Restoration Efforts are a Complementary Opportunity to Support the Demand for Pollination Services in Brazil. Environmental Science & Technology, 2021, 55, 12043-12053.	10.0	9
107	Minimal Effects of an Invasive Flowering Shrub on the Pollinator Community of Native Forbs. PLoS ONE, 2014, 9, e109088.	2.5	8
108	â€˜Bigger dataâ€™ on scale-dependent effects of invasive species on biodiversity cannot overcome confounded analyses: a comment on Stohlgren & RejmÃ¡nek (2014). Biology Letters, 2015, 11, 20150103.	2.3	8

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109	Longâ€term experiment manipulating community assembly results in favorable restoration outcomes for invaded prairies. Restoration Ecology, 2019, 27, 1307-1316.	2.9	8
110	An invasive legume increases perennial grass biomass: An indirect pathway for plant community change. PLoS ONE, 2019, 14, e0211295.	2.5	8
111	Anthropogenic and environmental drivers shape diversity of naturalized plants across the Pacific. Diversity and Distributions, 2021, 27, 1120-1133.	4.1	8
112	Demographic analysis of an Israeli Carpobrotus population. PLoS ONE, 2021, 16, e0250879.	2.5	8
113	Effects of different types of lowâ€intensity management on plantâ€pollinator interactions in Estonian grasslands. Ecology and Evolution, 2021, 11, 16909-16926.	1.9	6
114	Count population viability analysis finds that interacting local and regional threats affect the viability of a rare plant. Ecological Indicators, 2018, 93, 822-829.	6.3	5
115	Abundance, origin, and phylogeny of plants do not predict communityâ€level patterns of pathogen diversity and infection. Ecology and Evolution, 2020, 10, 5506-5516.	1.9	5
116	Climate change and grassland management interactively influence the population dynamics of Bromus erectus (Poaceae). Basic and Applied Ecology, 2021, 56, 226-238.	2.7	5
117	Ecological Succession: Out of the Ash. Current Biology, 2005, 15, R926-R927.	3.9	4
118	Population projection models for 14 alien plant species in the presence and absence of aboveground competition. Ecology, 2019, 100, e02681.	3.2	4
119	Understanding plant communities of the future requires filling knowledge gaps. Global Change Biology, 2020, 26, 328-329.	9.5	4
120	Increasing temperature threatens an already endangered coastal dune plant. Ecosphere, 2021, 12, e03454.	2.2	4
121	Effects of climate change and pollen supplementation on the reproductive success of two grassland plant species. Ecology and Evolution, 2022, 12, e8501.	1.9	4
122	Rpadrino: An R package to access and use <scp>PADRINO</scp>, an open access database of Integral Projection Models. Methods in Ecology and Evolution, 2022, 13, 1923-1929.	5.2	4
123	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.	1.5	4
124	ipmr: Flexible implementation of Integral Projection Models in R. Methods in Ecology and Evolution, 2021, 12, 1826-1834.	5.2	3
125	Using Long-Term Population Monitoring Data to Prioritize Conservation Action among Rare Plant Species. Natural Areas Journal, 2019, 39, 169.	0.5	3
126	We Should Know whether a Tool Works (and How Dangerous It Is) before We Use It: Response to Hinz and Colleagues. BioScience, 2019, 69, 854-855.	4.9	2

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127	Scaleâ€dependent impact of land management on aboveâ€•and belowground biodiversity. Ecology and Evolution, 2020, 10, 10139-10149.	1.9	1
128	Oilseed Rape Shares Abundant and Generalized Pollinators with Its Co-Flowering Plant Species. Insects, 2021, 12, 1096.	2.2	1
129	Experimental Grazing and Grass-Specific Herbicide Application Benefit Rare Forb Recruitment. Natural Areas Journal, 2017, 37, 161-169.	0.5	0