

David J Gibson

List of Publications by Year in descending order

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105
papers

4,031
citations

185998

28
h-index

128067

60
g-index

112
all docs

112
docs citations

112
times ranked

6299
citing authors

#	ARTICLE	IF	CITATIONS
1	TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	4.2	1,038
2	Experimental Analysis of Intermediate Disturbance and Initial Floristic Composition: Decoupling Cause and Effect. <i>Ecology</i> , 1995, 76, 486-492.	1.5	302
3	Parallel Analysis: a method for determining significant principal components. <i>Journal of Vegetation Science</i> , 1995, 6, 99-106.	1.1	289
4	Designs for greenhouse studies of interactions between plants. <i>Journal of Ecology</i> , 1999, 87, 1-16.	1.9	289
5	Life History of <i>Microstegium vimineum</i> (Poaceae), an Invasive Grass in Southern Illinois. <i>Journal of the Torrey Botanical Society</i> , 2002, 129, 207.	0.1	107
6	Fire Temperature Heterogeneity in Contrasting Fire Prone Habitats: Kansas Tallgrass Prairie and Florida Sandhill. <i>Bulletin of the Torrey Botanical Club</i> , 1990, 117, 349.	0.6	89
7	Effects of Animal Disturbance on Tallgrass Prairie Vegetation. <i>American Midland Naturalist</i> , 1989, 121, 144.	0.2	78
8	The effect of seeds of exotic species transported via horse dung on vegetation along trail corridors. <i>Plant Ecology</i> , 2001, 157, 23-35.	0.7	77
9	The relationship between the soil seed bank and above-ground vegetation of a coastal barrier island. <i>Journal of Vegetation Science</i> , 1995, 6, 825-836.	1.1	75
10	Management Practices in Tallgrass Prairie: Large- and Small-Scale Experimental Effects on Species Composition. <i>Journal of Applied Ecology</i> , 1993, 30, 247.	1.9	71
11	Mechanisms for Dominance in An Early Successional Old Field by the Invasive Non-Native <i>Lespedeza Cuneata</i> (Dum. Cours.) G. Don. <i>Biological Invasions</i> , 2004, 6, 483-493.	1.2	66
12	Population structure and spatial pattern in the dioecious shrub <i>Ceratiola ericoides</i> . <i>Journal of Vegetation Science</i> , 1994, 5, 337-346.	1.1	60
13	<i>Festuca arundinacea</i> Schreber (<i>F. elatior</i> L. ssp. <i>arundinacea</i> (Schreber) Hackel). <i>Journal of Ecology</i> , 2001, 89, 304-324.	1.9	60
14	The Maintenance of Plant and Soil Heterogeneity in Dune Grassland. <i>Journal of Ecology</i> , 1988, 76, 497.	1.9	59
15	Use of multiple criteria in an ecological assessment of a prairie restoration chronosequence. <i>Applied Vegetation Science</i> , 2014, 17, 63-73.	0.9	59
16	Soil heterogeneity generated by plant-soil feedbacks has implications for species recruitment and coexistence. <i>Journal of Ecology</i> , 2013, 101, 277-286.	1.9	56
17	Additive partitioning of diversity across hierarchical spatial scales in a forested landscape. <i>Journal of Applied Ecology</i> , 2006, 43, 792-801.	1.9	55
18	Effects of small mammal and invertebrate herbivory on plant species richness and abundance in tallgrass prairie. <i>Oecologia</i> , 1990, 84, 169-175.	0.9	50

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19	forumThe core-satellite species hypothesis provides a theoretical basis for Grime's classification of dominant, subordinate, and transient species. <i>Journal of Ecology</i> , 1999, 87, 1064-1067.	1.9	47
20	Species frequency dynamics in an old-field succession: Effects of disturbance, fertilization and scale. <i>Journal of Vegetation Science</i> , 2005, 16, 415-422.	1.1	46
21	Phylogenetic diversity is maintained despite richness losses over time in restored tallgrass prairie plant communities. <i>Journal of Applied Ecology</i> , 2017, 54, 137-144.	1.9	45
22	Limited effects of dominant species population source on community composition during community assembly. <i>Journal of Vegetation Science</i> , 2013, 24, 429-440.	1.1	41
23	Temporal dynamics of plant community regeneration sources during tallgrass prairie restoration. <i>Plant Ecology</i> , 2013, 214, 1169-1180.	0.7	38
24	Using Local Seeds in Prairie RestorationData Support the Paradigm. <i>Native Plants Journal</i> , 2005, 6, 25-28.	0.0	35
25	Intraspecific Variation in Ecophysiology of Three Dominant Prairie Grasses Used in Restoration: Cultivar Versus Non-Cultivar Population Sources. <i>Restoration Ecology</i> , 2011, 19, 43-52.	1.4	34
26	Effects of foundation species genotypic diversity on subordinate species richness in an assembling community. <i>Oikos</i> , 2012, 121, 496-507.	1.2	34
27	No effect of seed source on multiple aspects of ecosystem functioning during ecological restoration: cultivars compared to local ecotypes of dominant grasses. <i>Evolutionary Applications</i> , 2014, 7, 323-335.	1.5	33
28	Mass ratio effects underlie ecosystem responses to environmental change. <i>Journal of Ecology</i> , 2020, 108, 855-864.	1.9	31
29	Succession of Exotic and Native Species Assemblages within Restored Floodplain Forests: A Test of the Parallel Dynamics Hypothesis. <i>Restoration Ecology</i> , 2012, 20, 202-210.	1.4	30
30	Spatial heterogeneity of plant-soil feedbacks increases per capita reproductive biomass of species at an establishment disadvantage. <i>Oecologia</i> , 2017, 183, 1077-1086.	0.9	29
31	Physiological Performance of <i>Andropogon gerardii</i> , <i>Panicum virgatum</i> , and <i>Sorghastrum nutans</i> on Reclaimed Mine Spoil. <i>Restoration Ecology</i> , 1996, 4, 355-367.	1.4	27
32	Can weeds enhance profitability? Integrating ecological concepts to address crop-weed competition and yield quality. <i>Journal of Ecology</i> , 2017, 105, 900-904.	1.9	25
33	Reciprocal transplant gardens as gold standard to detect local adaptation in grassland species: New opportunities moving into the 21st century. <i>Journal of Ecology</i> , 2022, 110, 1054-1071.	1.9	25
34	Unraveling Microbial and Edaphic Factors Affecting the Development of Sudden Death Syndrome in Soybean. <i>Phytobiomes Journal</i> , 2017, 1, 91-101.	1.4	24
35	A Landscape Perspective of the Stream Corridor Invasion and Habitat Characteristics of an Exotic (<i>Dioscorea oppositifolia</i>) in a Pristine Watershed in Illinois. <i>Biological Invasions</i> , 2006, 8, 1103-1113.	1.2	23
36	Breeding system, branching processes, hybrid swarm theory, and the humped-back diversity relationship as additional explanations for apparent monophyly in the Macaronesian island flora. <i>Journal of Ecology</i> , 2005, 93, 649-652.	1.9	22

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37	Plant ecological solutions to global food security. <i>Journal of Ecology</i> , 2017, 105, 859-864.	1.9	22
38	Heterogeneity in plant-soil feedbacks and resident population dynamics affect mutual invasibility. <i>Journal of Ecology</i> , 2014, 102, 1048-1057.	1.9	21
39	Seedbank and Field Emergence of Weeds in Glyphosate-Resistant Cropping Systems in the United States. <i>Weed Science</i> , 2015, 63, 425-439.	0.8	21
40	Is phylogenetic and functional trait diversity a driver or a consequence of grassland community assembly?. <i>Journal of Ecology</i> , 2019, 107, 2027-2032.	1.9	21
41	Permutation of Two-Term Local Quadrat Variance Analysis: General concepts for interpretation of peaks. <i>Journal of Vegetation Science</i> , 1998, 9, 41-44.	1.1	20
42	The Hierarchy-of-Hypotheses Approach: A Synthesis Method for Enhancing Theory Development in Ecology and Evolution. <i>BioScience</i> , 2021, 71, 337-349.	2.2	16
43	Using map algebra to determine the mesoscale distribution of invasive plants: the case of <i>Celastrus orbiculatus</i> in Southern Illinois, USA. <i>Biological Invasions</i> , 2007, 9, 419-431.	1.2	15
44	The weed community affects yield and quality of soybean (<i>Glycine max</i> (L.) Merr.). <i>Journal of the Science of Food and Agriculture</i> , 2008, 88, 371-381.	1.7	15
45	Agricultural Weeds in Glyphosate-Resistant Cropping Systems in the United States. <i>Weed Science</i> , 2013, 61, 85-97.	0.8	15
46	Functional diversity is more sensitive to biotic filters than phylogenetic diversity during community assembly. <i>Ecosphere</i> , 2018, 9, e02164.	1.0	15
47	Phylogenetic diversity reveals hidden patterns related to population source and species pools during restoration. <i>Journal of Applied Ecology</i> , 2017, 54, 91-101.	1.9	14
48	Functional response of subordinate species to intraspecific trait variability within dominant species. <i>Journal of Ecology</i> , 2019, 107, 2040-2053.	1.9	14
49	Genetic Sorting of Subordinate Species in Grassland Modulated by Intraspecific Variation in Dominant Species. <i>PLoS ONE</i> , 2014, 9, e91511.	1.1	14
50	Impact of interspecific competition on seed development and quality of five soybean cultivars. <i>Australian Journal of Experimental Agriculture</i> , 2007, 47, 1455.	1.0	12
51	Adaptive genetic potential and plasticity of trait variation in the foundation prairie grass <i>Andropogon gerardii</i> across the US Great Plains climate gradient: Implications for climate change and restoration. <i>Evolutionary Applications</i> , 2020, 13, 2333-2356.	1.5	12
52	Fitness among population sources of a dominant species (<i>Andropogon gerardii</i> Vitman) used in prairie restoration. <i>Journal of the Torrey Botanical Society</i> , 2013, 140, 269-279.	0.1	11
53	The effect of weed management systems and location on arable weed species communities in glyphosate-resistant cropping systems. <i>Applied Vegetation Science</i> , 2013, 16, 676-687.	0.9	11
54	Convergent and Contingent Community Responses to Grass Source and Dominance During Prairie Restoration Across a Longitudinal Gradient. <i>Environmental Management</i> , 2014, 53, 252-265.	1.2	11

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55	Plant community response to regional sources of dominant grasses in grasslands restored across a longitudinal gradient. <i>Ecosphere</i> , 2016, 7, e01329.	1.0	11
56	Do plant traits predict the competitive abilities of closely related species?. <i>AoB PLANTS</i> , 2016, 8, .	1.2	11
57	Do No Harm: Efficacy of a Single Herbicide Application to Control an Invasive Shrub While Minimizing Collateral Damage to Native Species. <i>Plants</i> , 2019, 8, 426.	1.6	11
58	Flora of the Gulf Islands National Seashore, Perdido Key, Florida. <i>Bulletin of the Torrey Botanical Club</i> , 1993, 120, 327.	0.6	10
59	Mowing and fertilizer effects on seedling establishment in a successional old field. <i>Journal of Plant Ecology</i> , 2011, 4, 157-168.	1.2	10
60	Light heterogeneity interacts with plant-induced soil heterogeneity to affect plant trait expression. <i>Plant Ecology</i> , 2015, 216, 439-450.	0.7	10
61	Nitrogen alters effects of disturbance on annual grassland community diversity: Implications for restoration. <i>Journal of Ecology</i> , 2019, 107, 2054-2064.	1.9	10
62	The Natural Revegetation of Lead/Zinc Mine Spoil in Northeastern Oklahoma. <i>Southwestern Naturalist</i> , 1982, 27, 425.	0.1	9
63	Occurrence of an herbicide-resistant plant trait in agricultural field margins. <i>Ecology and Evolution</i> , 2015, 5, 4161-4173.	0.8	9
64	Core-satellite species hypothesis and native versus exotic species in secondary succession. <i>Plant Ecology</i> , 2015, 216, 419-427.	0.7	9
65	Tansley's vision for <i>Journal of Ecology</i> , and a Centenary Celebration. <i>Journal of Ecology</i> , 2012, 100, 1-5.	1.9	8
66	Benchmark study on glyphosate-resistant cropping systems in the United States. Part 7: Effects of weed management strategy (grower practices versus academic recommendations) on the weed soil seedbank over 6 years. <i>Pest Management Science</i> , 2016, 72, 692-700.	1.7	8
67	Characterizing the microhabitats of exotic species in Illinois shale barrens. <i>Plant Ecology</i> , 2009, 200, 255-265.	0.7	7
68	Intraspecific variation among clones of a naïve rare grass affects competition with a nonnative, invasive forb. <i>Ecology and Evolution</i> , 2014, 4, 186-199.	0.8	7
69	Propagule abundance and richness are equivalent or higher in communities restored with local ecotypes relative to cultivars of dominant species. <i>Journal of Vegetation Science</i> , 2015, 26, 421-430.	1.1	7
70	Plant community and phylogenetic shifts in acid seep springs over 49 years following <i>Microstegium vimineum</i> invasion. <i>Plant Ecology</i> , 2020, 221, 167-175.	0.7	7
71	How reproductive allocation and flowering probability of individuals in plant populations are affected by position in stand size hierarchy, plant size and CO2 regime. <i>Journal of Plant Ecology</i> , 2008, 1, 207-215.	1.2	6
72	Life history of <i>Achyranthes japonica</i> (Amaranthaceae): an invasive species in southern Illinois. <i>Journal of the Torrey Botanical Society</i> , 2016, 143, 93-102.	0.1	6

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73	Ecotypic variation in forage nutrient value of a dominant prairie grass across a precipitation gradient. <i>Grassland Science</i> , 2016, 62, 233-242.	0.6	6
74	Using integral projection models to compare population dynamics of four closely related species. <i>Population Ecology</i> , 2016, 58, 285-292.	0.7	6
75	Grasslands and climate change: an overview. , 2019, , 3-18.		6
76	The Regeneration Potential of a Threatened Southern Illinois Shale Barren. <i>Journal of the Torrey Botanical Society</i> , 1999, 126, 226.	0.1	5
77	Plant trait expression responds to establishment timing. <i>Oecologia</i> , 2015, 178, 525-536.	0.9	5
78	Restoring grassland in the context of climate change. , 2019, , 310-322.		5
79	Species frequency dynamics in an old-field succession: Effects of disturbance, fertilization and scale. <i>Journal of Vegetation Science</i> , 2005, 16, 415.	1.1	5
80	Journal of Ecology news. <i>Journal of Ecology</i> , 2007, 95, 1-7.	1.9	4
81	<i>Journal of Ecology</i> News: Data Archiving Compliance. <i>Journal of Ecology</i> , 2016, 104, 1-3.	1.9	4
82	Glufosinate Absorption, Translocation, and Metabolic Fingerprint Effects in <i>gdhA</i>-transformed Tobacco. <i>Crop Science</i> , 2017, 57, 350-364.	0.8	4
83	Effect of PPO-Inhibiting Herbicides on the Growth and Sex Ratio of a Dioecious Weed Species <i>Amaranthus palmeri</i> (Palmer Amaranth). <i>Agronomy</i> , 2019, 9, 275.	1.3	4
84	The Relationship between Urban Green Space and Urban Expansion Based on Gravity Methods. <i>Sustainability</i> , 2022, 14, 5396.	1.6	4
85	Journal of Ecology news. <i>Journal of Ecology</i> , 2005, 93, 1-4.	1.9	3
86	Journal of Ecology news. <i>Journal of Ecology</i> , 2006, 94, 1-6.	1.9	3
87	<i>Journal of Ecology</i> News. <i>Journal of Ecology</i> , 2013, 101, 1-3.	1.9	3
88	Image-Based Analysis to Dissect Vertical Distribution and Horizontal Asymmetry of Conspecific Root System Interactions in Response to Planting Densities, Nutrients and Root Exudates in <i>Arabidopsis thaliana</i> . <i>Plants</i> , 2017, 6, 46.	1.6	3
89	Disturbance effects on productivityâ€“plant diversity relationships from a 22â€“yearâ€“old successional field. <i>Journal of Vegetation Science</i> , 2021, 32, .	1.1	3
90	Interactive disturbances drive community composition, heterogeneity, and the niches of invasive exotic plant species during secondary succession. <i>Plant Ecology and Diversity</i> , 2020, 13, 363-375.	1.0	3

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91	Reproductive challenges of a rare grass, <i>Calamagrostis porteri</i> subsp. <i>insperata</i> (Swallen) C. Greene: implications for habitat restoration. <i>Applied Vegetation Science</i> , 2009, 12, 316-327.	0.9	2
92	Trigonelline Accumulation in Leaves of <i>Panicum virgatum</i> Seedlings. <i>Natural Product Communications</i> , 2014, 9, 1934578X1400900.	0.2	2
93	Keeping up: climate-driven evolutionary change, dispersal, and migration. , 2019, , 218-233.		2
94	Identifying Sustainable Grassland Management Approaches in Response to the Invasive Legume <i>Lespedeza cuneata</i> : A Functional Group Approach. <i>Sustainability</i> , 2020, 12, 5951.	1.6	2
95	Taxonomic and phylogenetic composition show biotic resistance to exotic invasion in acid seep springs. <i>Ecological Processes</i> , 2021, 10, .	1.6	2
96	<i>Journal of Ecology</i> News. <i>Journal of Ecology</i> , 2009, 97, 1-3.	1.9	1
97	<i>Journal of Ecology</i> News. <i>Journal of Ecology</i> , 2014, 102, 1-3.	1.9	1
98	<i>Journal of Ecology</i> News. <i>Journal of Ecology</i> , 2015, 103, 90-92.	1.9	1
99	The Tallgrass Restoration Handbook for Prairies, Savannas, and Woodlands, second edition. <i>Restoration Ecology</i> , 2006, 14, 167-167.	1.4	0
100	<i>Journal of Ecology</i> News. <i>Journal of Ecology</i> , 2007, 96, 071119203335010-???	1.9	0
101	Grasslands in Europe of High Nature Value EDITED BY PETER VEEN, RICHARD JEFFERSON, JACQUES DE SMIDT AND JAN VAN DER STRAATEN 319 pp., 28 Å– 21 Å– 2 cm, ISBN 9789050113168 hardback, GB£ 93.00, € 108.00/US\$ 151.00, Zeist, the Netherlands: KNNV Publishing, 2009. <i>Environmental Conservation</i> , 2010, 37, 223-224.	0.7	0
102	<i>Journal of Ecology</i> News. <i>Journal of Ecology</i> , 2012, 100, 141-143.	1.9	0
103	<i>Journal of Ecology</i> News. <i>Journal of Ecology</i> , 2007, .	1.9	0
104	Succession in Ecological Education. , 2016, , 1-7.		0
105	Succession in Ecological Education. , 2018, , 47-53.		0