Thomas J Givnish

List of Publications by Year
in descending order

80 papers	8,721 citations	53794 45 h-index	69250 77 g-index
82 all docs	82 docs citations	82 times ranked	9435 citing authors

#	Article	IF	Citations
1	COMPARATIVE STUDIES OF LEAF FORM: ASSESSING THE RELATIVE ROLES OF SELECTIVE PRESSURES AND PHYLOGENETIC CONSTRAINTS. New Phytologist, 1987, 106, 131-160.	7.3	510
2	Phylogeny, adaptive radiation, and historical biogeography in Bromeliaceae: Insights from an eightâ€locus plastid phylogeny. American Journal of Botany, 2011, 98, 872-895.	1.7	401
3	Adaptive significance of evergreen vs. deciduous leaves: solving the triple paradox. Silva Fennica, 2002, 36, .	1.3	399
4	On the Adaptive Significance of Leaf Height in Forest Herbs. American Naturalist, 1982, 120, 353-381.	2.1	387
5	Orchid phylogenomics and multiple drivers of their extraordinary diversification. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151553.	2.6	361
6	On the causes of gradients in tropical tree diversity. Journal of Ecology, 1999, 87, 193-210.	4.0	351
7	Sizes and Shapes of Liane Leaves. American Naturalist, 1976, 110, 743-778.	2.1	338
8	Adaptive radiation, correlated and contingent evolution, and net species diversification in Bromeliaceae. Molecular Phylogenetics and Evolution, 2014, 71, 55-78.	2.7	333
9	Carnivory in the Bromeliad Brocchinia reducta, with a Cost/Benefit Model for the General Restriction of Carnivorous Plants to Sunny, Moist, Nutrient-Poor Habitats. American Naturalist, 1984, 124, 479-497.	2.1	327
10	Origin, adaptive radiation and diversification of the Hawaiian lobeliads (Asterales: Campanulaceae). Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 407-416.	2.6	312
11	On the Adaptive Significance of Leaf Form. , 1979, , 375-407.		244
12	Ecology of plant speciation. Taxon, 2010, 59, 1326-1366.	0.7	241
13	Relationships among arbuscular mycorrhizal fungi, vascular plants and environmental conditions in oak savannas. New Phytologist, 2004, 164, 493-504.	7.3	227
14	Assembling the Tree of the Monocotyledons: Plastome Sequence Phylogeny and Evolution of Poales¹. Annals of the Missouri Botanical Garden, 2010, 97, 584-616.	1.3	202
15	Ancient Vicariance or Recent Longâ€Distance Dispersal? Inferences about Phylogeny and South Americanâ€"African Disjunctions in Rapateaceae and Bromeliaceae Based on ndhF Sequence Data. International Journal of Plant Sciences, 2004, 165, S35-S54.	1.3	187
16	Adaptive radiation versus â€˜radiationâ€™ and â€˜explosive diversificationâ€™: why conceptual distinctions are fundamental to understanding evolution. New Phytologist, 2015, 207, 297-303.	7.3	187
17	ECOLOGICAL CONSTRAINTS ON THE EVOLUTION OF BREEDING SYSTEMS IN SEED PLANTS: DIOECY AND DISPERSAL IN GYMNOSPERMS. Evolution; International Journal of Organic Evolution, 1980, 34, 959-972.	2.3	178
18	Multigene Analyses of Monocot Relationships. Aliso, 2006, 22, 63-75.	0.2	164

#	Article	IF	Citations
19	Monocot plastid phylogenomics, timeline, net rates of species diversification, the power of multiâ€gene analyses, and a functional model for the origin of monocots. American Journal of Botany, 2018, 105, 1888-1910.	1.7	161
20	PHYLOGENY, CONCERTED CONVERGENCE, AND PHYLOGENETIC NICHE CONSERVATISM IN THE CORE LILIALES: INSIGHTS FROM rbcL AND ndhF SEQUENCE DATA. Evolution; International Journal of Organic Evolution, 2002, 56, 233-252.	2.3	153
21	Plant Stems. , 1995, , 3-49.		151
22	Adaptive radiation of photosynthetic physiology in the Hawaiian lobeliads: light regimes, static light responses, and wholeâ€plant compensation points. American Journal of Botany, 2004, 91, 228-246.	1.7	148
23	Does diversity beget stability?. Nature, 1994, 371, 113-114.	27.8	141
24	GRADIENTS IN THE COMPOSITION, STRUCTURE, AND DIVERSITY OF REMNANT OAK SAVANNAS IN SOUTHERN WISCONSIN. Ecological Monographs, 1999, 69, 353-374.	5.4	128
25	Orchid historical biogeography, diversification, Antarctica and the paradox of orchid dispersal. Journal of Biogeography, 2016, 43, 1905-1916.	3.0	127
26	A phylogenomic assessment of ancient polyploidy and genome evolution across the Poales. Genome Biology and Evolution, 2016, 8, evw060.	2.5	117
27	Elevated carbon dioxide ameliorates the effects of ozone on photosynthesis and growth: species respond similarly regardless of photosynthetic pathway or plant functional group. New Phytologist, 1998, 138, 315-325.	7.3	114
28	Ecological constraints on the evolution of plasticity in plants. Evolutionary Ecology, 2002, 16, 213-242.	1.2	110
29	Outcrossing Versus Ecological Constraints in the Evolution of Dioecy. American Naturalist, 1982, 119, 849-865.	2.1	101
30	Repeated evolution of net venation and fleshy fruits among monocots in shaded habitats confirms a priori predictions: evidence from an ndhF phylogeny. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 1481-1490.	2.6	100
31	Plastid phylogenomics and molecular evolution of Alismatales. Cladistics, 2016, 32, 160-178.	3.3	98
32	Determinants of maximum tree height in <i>Eucalyptus</i> species along a rainfall gradient in Victoria, Australia. Ecology, 2014, 95, 2991-3007.	3.2	97
33	Tracking lags in historical plant speciesâ€™ shifts in relation to regional climate change. Global Change Biology, 2017, 23, 1305-1315.	9.5	92
34	Spatial and temporal patterns of recent forest encroachment in montane grasslands of the Valles Caldera, New Mexico, USA. Journal of Biogeography, 2007, 34, 914-927.	3.0	90
35	Geographic cohesion, chromosomal evolution, parallel adaptive radiations, and consequent floral adaptations in Calochortus (Calochortaceae): evidence from a cpDNA phylogeny. New Phytologist, 2004, 161, 253-264.	7.3	84
36	Vegetation differentiation in the patterned landscape of the central Everglades: importance of local and landscape drivers. Global Ecology and Biogeography, 2008, 17, 384-402.	5.8	82

#	Article	IF	Citations
37	SEROTINY, GEOGRAPHY, AND FIRE IN THE PINE BARRENS OF NEW JERSEY. Evolution; International Journal of Organic Evolution, 1981, 35, 101-123.	2.3	81
38	New evidence on the origin of carnivorous plants. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10-11.	7.1	79
39	Biogeography of the cosmopolitan sedges (Cyperaceae) and the areaâ€richness correlation in plants. Journal of Biogeography, 2016, 43, 1893-1904.	3.0	79
40	Lightâ€induced plasticity in leaf hydraulics, venation, anatomy, and gas exchange in ecologically diverse Hawaiian lobeliads. New Phytologist, 2015, 207, 43-58.	7.3	77
41	Phylogeny, divergence times, and historical biogeography of New WorldDryopteris(Dryopteridaceae). American Journal of Botany, 2012, 99, 730-750.	1.7	68
42	Leaf phenology in relation to canopy closure in southern Appalachian trees. American Journal of Botany, 2008, 95, 1395-1407.	1.7	63
43	Recent and Historic Drivers of Landscape Change in the Everglades Ridge, Slough, and Tree Island Mosaic. Critical Reviews in Environmental Science and Technology, 2011, 41, 344-381.	12.8	62
44	Phylogenomics and historical biogeography of the monocot order Liliales: out of Australia and through Antarctica. Cladistics, 2016, 32, 581-605.	3.3	61
45	The pace of plant community change is accelerating in remnant prairies. Science Advances, 2016, 2, e1500975.	10.3	57
46	Absorptive Trichomes in Brocchinia reducta (Bromeliaceae) and Their Evolutionary and Systematic Significance. Systematic Botany, 1985, 10, 81.	0.5	56
47	Carbon and sediment accumulation in the Everglades (USA) during the past 4000 years: Rates, drivers, and sources of error. Journal of Geophysical Research, 2012, 117, .	3.3	55
48	Evolution of geographical place and niche space: Patterns of diversification in the North American sedge (Cyperaceae) flora. Molecular Phylogenetics and Evolution, 2016, 95, 183-195.	2.7	40
49	Gradient analysis of reversed treelines and grasslands of the Valles Caldera, New Mexico. Journal of Vegetation Science, 2007, 18, 43-54.	2.2	33
50	Leaf form and photosynthetic physiology of <i><scp>D</scp>ryopteris</i> species distributed along light gradients in eastern <scp>N</scp>orth <scp>A</scp>merica. Functional Ecology, 2014, 28, 108-123.	3.6	33
51	Distribution of black spruce versus eastern larch along peatland gradients: relationship to relative stature, growth rate, and shade tolerance. Canadian Journal of Botany, 1996, 74, 1514-1532.	1.1	31
52	Causes of ecological gradients in leaf margin entirety: Evaluating the roles of biomechanics, hydraulics, vein geometry, and bud packing. American Journal of Botany, 2017, 104, 354-366.	1.7	29
53	Fire adaptation in Neblinaria celiae (Theaceae), a high-elevation rosette shrub endemic to a wet equatorial tepui. Oecologia, 1986, 70, 481-485.	2.0	28
54	Spatial genetic structure in four understory <i>Psychotria</i> species (Rubiaceae) and implications for tropical forest diversity. American Journal of Botany, 2014, 101, 1189-1199.	1.7	27

#	Article	IF	Citations
55	Common-garden studies on adaptive radiation of photosynthetic physiology among Hawaiian lobeliads. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132944.	2.6	27
56	A new carnivorous plant lineage (<i>Triantha</i>) with a unique sticky-inflorescence trap. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	26
57	Paramagnetic Cellulose DNA Isolation Improves DNA Yield and Quality Among Diverse Plant Taxa. Applications in Plant Sciences, 2014, 2, 1400048.	2.1	24
58	Spatial phylogenetics reveals evolutionary constraints on the assembly of a large regional flora. American Journal of Botany, 2018, 105, 1938-1950.	1.7	21
59	Population genetics and phylogeography of endangered Oxytropis campestris var. chartacea and relatives: arctic-alpine disjuncts in eastern North America. Molecular Ecology, 2004, 13, 3657-3673.	3.9	19
60	Giant lobelias exemplify convergent evolution. BMC Biology, 2010, 8, 3.	3.8	16
61	Inbreeding, low genetic diversity, and spatial genetic structure in the endemic Hawaiian lobeliads Clermontia fauriei and Cyanea pilosa ssp. longipedunculata. Conservation Genetics, 2016, 17, 497-502.	1.5	15
62	Evolution of carnivory in angiosperms. , 2018, , .		14
63	Relative Roles of Soil Moisture, Nutrient Supply, Depth, and Mechanical Impedance in Determining Composition and Structure of Wisconsin Prairies. PLoS ONE, 2015, 10, e0137963.	2.5	11
64	Photoprotection of PSII in Hawaiian lobeliads from diverse light environments. Functional Plant Biology, 2008, 35, 595.	2.1	10
65	Mistletoes and their eucalypt hosts differ in the response of leaf functional traits to climatic moisture supply. Oecologia, 2021, 195, 759-771.	2.0	10
66	Phylogeny, Floral Evolution, and Inter-Island Dispersal in Hawaiian Clermontia (Campanulaceae) Based on ISSR Variation and Plastid Spacer Sequences. PLoS ONE, 2013, 8, e62566.	2.5	10
67	Mesophyll photosynthetic sensitivity to leaf water potential in <i>Eucalyptus</i>: a new dimension of plant adaptation to native moisture supply. New Phytologist, 2021, 230, 1844-1855.	7.3	9
68	Fineâ€scale environmental heterogeneity and spatial niche partitioning among springâ€flowering forest herbs. American Journal of Botany, 2021, 108, 63-73.	1.7	9
69	A New World of plants. Science, 2017, 358, 1535-1536.	12.6	8
70	Why are plants carnivorous? Cost/benefit analysis, whole-plant growth, and the context-specific advantages of botanical carnivory. , 2018, , .		8
71	Hydroscapes, hydroscape plasticityÂand relationships to functional traits and mesophyll photosynthetic sensitivity to leaf water potential in <i>Eucalyptus</i> species. Plant, Cell and Environment, 2022, 45, 2573-2588.	5.7	8
72	Plant distribution, stature, rarity, and diversity in a patterned calcareous fen: tests of geochemical and leafâ€height models. American Journal of Botany, 2019, 106, 807-820.	1.7	7

#	Article	IF	Citations
73	The Adaptive Geometry of Trees Revisited. American Naturalist, 2020, 195, 935-947.	2.1	6
74	Spatial scales of genetic structure and gene flow in <i>Calochortus albus</i> (Liliaceae). Ecology and Evolution, 2013, 3, 1461-1470.	1.9	4
75	Tree diversity in relation to tree height: alternative perspectives. Ecology Letters, 2017, 20, 395-397.	6.4	4
76	Adaptive associations among life history, reproductive traits, environment, and origin in the Wisconsin angiosperm flora. American Journal of Botany, 2020, 107, 1677-1692.	1.7	4
77	Gradient analysis of reversed treelines and grasslands of the Valles Caldera, New Mexico. Journal of Vegetation Science, 2007, 18, 43.	2.2	4
78	Bromeliaceae: Profile of an Adaptive Radiation.â€”D. H. Benzing (with contributions from B. Bennet, G.) Tj ETQq0 0 0 rgBT /Overlock 10 Cambridge, U.K. xii + 690 pp. ISBN 0â€“521â€“43031â€“3. $160.00 (hard cover).. Systematic Biology, 2005, 54, 340-344.	5.6	3
79	Short-distance gene flow and morphological divergence in<i>Eschscholzia parishii</i>(Papaveraceae): implications for speciation in desert winter annuals. Botanical Journal of the Linnean Society, 2022, 200, 255-269.	1.6	1
80	Turning to the dark side. Nature Plants, 2022, 8, 324-325.	9.3	0