Phyllis D Coley

List of Publications by Year
in descending order

55	6,629	136950	175258
papers	citations	32 h-index	52 g-index

56	56	56	6301
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Herbivory and Defensive Characteristics of Tree Species in a Lowland Tropical Forest. Ecological Monographs, 1983, 53, 209-234.	5.4	1,458
2	River dynamics and the diversity of Amazon lowland forest. Nature, 1986, 322, 254-258.	27.8	801
3	The global distribution of diet breadth in insect herbivores. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 442-447.	7.1	454
4	The resource availability hypothesis revisited: a metaâ€analysis. Functional Ecology, 2011, 25, 389-398.	3.6	446
5	The evolution of antiherbivore defenses and their contribution to species coexistence in the tropical tree genusInga. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18073-18078.	7.1	277
6	Effects of leaf age and plant life history patterns on herbivory. Nature, 1980, 284, 545-546.	27.8	233
7	Costs and benefits of defense by tannins in a neotropical tree. Oecologia, 1986, 70, 238-241.	2.0	229
8	INTERSPECIFIC VARIATION IN PLANT ANTIâ€HERBIVORE PROPERTIES: THE ROLE OF HABITAT QUALITY AND RATE OF DISTURBANCE. New Phytologist, 1987, 106, 251-263.	7.3	193
9	Possible Effects of Climate Change on Plant/Herbivore Interactions in Moist Tropical Forests. Climatic Change, 1998, 39, 455-472.	3.6	166
10	Delayed Greening in Tropical Leaves: An Antiherbivore Defense?. Biotropica, 1992, 24, 256.	1.6	156
11	Anti-Herbivore Defenses of Young Tropical Leaves: Physiological Constraints and Ecological Trade-offs. , 1996, , 305-336.		143
12	Coevolutionary arms race versus host defense chase in a tropical herbivoreâ€“plant system. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7499-E7505.	7.1	123
13	Seasonal and habitat differences affect the impact of food and predation on herbivores: a comparison between gaps and understory of a tropical forest. Oikos, 2007, 116, 31-40.	2.7	120
14	Communities of fungal endophytes in tropical forest grasses: highly diverse host- and habitat generalists characterized by strong spatial structure. Fungal Ecology, 2014, 8, 1-11.	1.6	115
15	Dispersal assembly of rain forest tree communities across the Amazon basin. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2645-2650.	7.1	103
16	Red coloration of tropical young leaves: a possible antifungal defence?. Journal of Tropical Ecology, 1989, 5, 293-300.	1.1	101
17	Culturing and direct PCR suggest prevalent host generalism among diverse fungal endophytes of tropical forest grasses. Mycologia, 2011, 103, 247-260.	1.9	97
18	On Tropical Forests and Their Pests. Science, 2014, 343, 35-36.	12.6	92

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19	Nitrogen Content and Expansion Rate of Young Leaves of Rain Forest Species: Implications for Herbivory. Biotropica, 1991, 23, 141.	1.6	91
20	Herbivores as drivers of negative density dependence in tropical forest saplings. Science, 2019, 363, 1213-1216.	12.6	87
21	High herbivore pressure favors constitutive over induced defense. Ecology and Evolution, 2016, 6, 6037-6049.	1.9	78
22	Do pathogens limit the distributions of tropical trees across a rainfall gradient?. Journal of Ecology, 2015, 103, 165-174.	4.0	73
23	Quantitative and qualitative shifts in defensive metabolites define chemical defense investment during leaf development in <scp>I</scp>nga, a genus of tropical trees. Ecology and Evolution, 2016, 6, 478-492.	1.9	70
24	Consequences of interspecific variation in defenses and herbivore host choice for the ecology and evolution of Inga, a speciose rainforest tree. Oecologia, 2018, 187, 361-376.	2.0	68
25	Using ecological criteria to design plant collection strategies for drug discovery. Frontiers in Ecology and the Environment, 2003, 1, 421-428.	4.0	64
26	Photosynthetic induction times in shade-tolerant species with long and short-lived leaves. Oecologia, 1993, 93, 165-170.	2.0	60
27	Divergent evolution in antiherbivore defences within species complexes at a single Amazonian site. Journal of Ecology, 2015, 103, 1107-1118.	4.0	60
28	Contrasting modes of light acclimation in two species of the rainforest understory. Oecologia, 1999, 121, 489-498.	2.0	59
29	DIVERGENT DEFENSIVE STRATEGIES OF YOUNG LEAVES IN TWO SPECIES OF INGA. Ecology, 2005, 86, 2633-2643.	3.2	56
30	Allelochemic function for a primary metabolite: the case of lâ€tyrosine hyperâ€production in Inga umbellifera (Fabaceae). American Journal of Botany, 2006, 93, 1109-1115.	1.7	54
31	Tropical Monodominance: A Preliminary Test of the Ectomycorrhizal Hypothesis1. Biotropica, 1999, 31, 220-228.	1.6	45
32	Contrasting mechanisms of secondary metabolite accumulation during leaf development in two tropical tree species with different leaf expansion strategies. Oecologia, 2006, 149, 91-100.	2.0	45
33	Cinnamoyl glucosides of catechin and dimeric procyanidins from young leaves of Inga umbellifera (Fabaceae). Phytochemistry, 2004, 65, 351-358.	2.9	42
34	Functional Traits 2.0: The power of the metabolome for ecology. Journal of Ecology, 2022, 110, 4-20.	4.0	42
35	FOOD QUALITY, COMPETITION, AND PARASITISM INFLUENCE FEEDING PREFERENCE IN A NEOTROPICAL LEPIDOPTERAN. Ecology, 2006, 87, 3058-3069.	3.2	33
36	The effect of soil on the growth performance of tropical species with contrasting distributions. Oikos, 2008, 117, 1453-1460.	2.7	26

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37	Galloyl Depsides of Tyrosine from Young Leaves of Inga laurina. Journal of Natural Products, 2007, 70, 134-136.	3.0	25
38	Chemocoding as an identification tool where morphologicalâ€•and <scp>DNA</scp>â€‘based methods fall short: Inga as a case study. New Phytologist, 2018, 218, 847-858.	7.3	25
39	Antiprotozoal Activity AgainstPlasmodium falciparum. andTrypanosoma cruzi. of Xanthones Isolated fromChrysochlamys tenuis.. Pharmaceutical Biology, 2006, 44, 550-553.	2.9	24
40	Monodominance in an African Rain Forest: Is Reduced Herbivory Important?1. Biotropica, 2000, 32, 430-439.	1.6	23
41	Coibanoles, a new class of meroterpenoids produced by Pycnoporus sanguineus. Tetrahedron Letters, 2012, 53, 919-922.	1.4	23
42	Macroevolutionary patterns in overexpression of tyrosine: An antiâ€‘herbivore defence in a speciose tropical tree genus, Inga (Fabaceae). Journal of Ecology, 2019, 107, 1620-1632.	4.0	21
43	Developmental Changes in Direct and Indirect Defenses in the Young Leaves of the Neotropical Tree Genus <scp>I</scp>nga (<scp>F</scp>abaceae). Biotropica, 2013, 45, 175-184.	1.6	20
44	Tracking of Host Defenses and Phylogeny During the Radiation of Neotropical Inga-Feeding Sawflies (Hymenoptera; Argidae). Frontiers in Plant Science, 2018, 9, 1237.	3.6	19
45	Combined Effects of Host Plant Quality and Predation on a Tropical Lepidopteran: A Comparison between Treefall Gaps and the Understory in Panama. Biotropica, 2008, 40, 736-741.	1.6	18
46	Divergence and diversity in the defensive ecology of Inga at two Neotropical sites. Journal of Ecology, 2007, 96, 071203163438002-???.	4.0	16
47	The role of plant secondary metabolites in shaping regional and local plant community assembly. Journal of Ecology, 2022, 110, 34-45.	4.0	15
48	The Effect of Symbiotic Ant Colonies on Plant Growth: A Test Using an Azteca-Cecropia System. PLoS ONE, 2015, 10, e0120351.	2.5	12
49	A new paradigm for drug discovery in tropical rainforests. Nature Biotechnology, 1996, 14, 1200-1202.	17.5	9
50	Phenolics lie at the centre of functional versatility in the responses of two phytochemically diverse tropical trees to canopy thinning. Journal of Experimental Botany, 2019, 70, 5853-5864.	4.8	8
51	Domatia morphology and mite occupancy of Psychotria horizontalis (Rubiaceae) across the Isthmus of Panama. Arthropod-Plant Interactions, 2012, 6, 129-136.	1.1	4
52	A rapid, efficient method for the bioassay of extracts, fractions and compounds for activity against tropical aphids. International Journal of Pest Management, 2006, 52, 333-342.	1.8	3
53	THE GROWTHâ€“DEFENSE TRADE-OFF AND HABITAT SPECIALIZATION BY PLANTS IN AMAZONIAN FORESTS. , 2006, 87, S150.		2
54	Impacts of Plant Defenses on Host Choice by Lepidoptera in Neotropical Rainforests. Fascinating Life Sciences, 2022, , 93-114.	0.9	2

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55	Glass Ceiling: Bump, Bump. Science, 1995, 269, 1328-1328.	12.6	0