

Catherine Potvin

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

6,652
citations

94381

37
h-index

66879

78
g-index

104
all docs

104
docs citations

104
times ranked

8621
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	The Statistical Analysis of Ecophysiological Response Curves Obtained from Experiments Involving Repeated Measures. <i>Ecology</i> , 1990, 71, 1389-1400.	1.5	592
3	Distribution-Free and Robust Statistical Methods: Viable Alternatives to Parametric Statistics. <i>Ecology</i> , 1993, 74, 1617-1628.	1.5	365
4	BIODIVERSITY AND ECOSYSTEM FUNCTIONING: IMPORTANCE OF SPECIES EVENNESS IN AN OLD FIELD. <i>Ecology</i> , 2000, 81, 887-892.	1.5	322
5	Variation in carbon storage among tree species: Implications for the management of a small-scale carbon sink project. <i>Forest Ecology and Management</i> , 2007, 246, 208-221.	1.4	306
6	Contributions of a global network of tree diversity experiments to sustainable forest plantations. <i>Ambio</i> , 2016, 45, 29-41.	2.8	203
7	Tree species richness affects litter production and decomposition rates in a tropical biodiversity experiment. <i>Oikos</i> , 2007, 116, 2108-2124.	1.2	179
8	Tropical tree diversity enhances light capture through crown plasticity and spatial and temporal niche differences. <i>Ecology</i> , 2014, 95, 2479-2492.	1.5	178
9	Biodiversity enhances individual performance but does not affect survivorship in tropical trees. <i>Ecology Letters</i> , 2008, 11, 217-223.	3.0	171
10	Carbon storage of harvest-age teak (<i>Tectona grandis</i>) plantations, Panama. <i>Forest Ecology and Management</i> , 2003, 173, 213-225.	1.4	136
11	Assessing inter- and intra-specific variation in trunk carbon concentration for 32 neotropical tree species. <i>Canadian Journal of Forest Research</i> , 2003, 33, 1039-1045.	0.8	136
12	Can we predict carbon stocks in tropical ecosystems from tree diversity? Comparing species and functional diversity in a plantation and a natural forest. <i>New Phytologist</i> , 2011, 189, 978-987.	3.5	132
13	Globally, functional traits are weak predictors of juvenile tree growth, and we do not know why. <i>Journal of Ecology</i> , 2015, 103, 978-989.	1.9	131
14	For the sake of resilience and multifunctionality, let's diversify planted forests!. <i>Conservation Letters</i> , 2022, 15, e12829.	2.8	124
15	Neighborhood effects and size-asymmetric competition in a tree plantation varying in diversity. <i>Ecology</i> , 2009, 90, 321-327.	1.5	122
16	Tree diversity enhances tree transpiration in a Panamanian forest plantation. <i>Journal of Applied Ecology</i> , 2012, 49, 135-144.	1.9	101
17	Partitioning the effects of biodiversity and environmental heterogeneity for productivity and mortality in a tropical tree plantation. <i>Journal of Ecology</i> , 2008, 96, 903-913.	1.9	99
18	Diversity-dependent temporal divergence of ecosystem functioning in experimental ecosystems. <i>Nature Ecology and Evolution</i> , 2017, 1, 1639-1642.	3.4	95

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19	Drivers of productivity and its temporal stability in a tropical tree diversity experiment. <i>Global Change Biology</i> , 2019, 25, 4257-4272.	4.2	93
20	Indigenous livelihoods, slash-and-burn agriculture, and carbon stocks in Eastern Panama. <i>Ecological Economics</i> , 2007, 60, 807-820.	2.9	91
21	Evolutionary consequences of simulated global change: genetic adaptation or adaptive phenotypic plasticity. <i>Oecologia</i> , 1996, 108, 683-693.	0.9	76
22	Optimum experimental design for Free-Air Carbon dioxide Enrichment (FACE) studies. <i>Global Change Biology</i> , 2000, 6, 843-854.	4.2	76
23	Tropical pasture carbon cycling: relationships between C source/sink strength, above-ground biomass and grazing. <i>Ecology Letters</i> , 2002, 5, 367-376.	3.0	70
24	Avoiding deforestation in Panamanian protected areas: An analysis of protection effectiveness and implications for reducing emissions from deforestation and forest degradation. <i>Global Environmental Change</i> , 2009, 19, 279-291.	3.6	67
25	LONG-TERM CO ₂ ENRICHMENT OF A PASTURE COMMUNITY: SPECIES RICHNESS, DOMINANCE, AND SUCCESSION. <i>Ecology</i> , 1997, 78, 666-677.	1.5	66
26	Establishment of native tropical timber trees in monoculture and mixed-species plantations: Small-scale effects on tree performance and insect herbivory. <i>Forest Ecology and Management</i> , 2011, 261, 741-750.	1.4	63
27	An ecosystem approach to biodiversity effects: Carbon pools in a tropical tree plantation. <i>Forest Ecology and Management</i> , 2011, 261, 1614-1624.	1.4	59
28	In situ field measurements of photosynthetic rates of tropical tree species: a test of the functional group hypothesis. <i>Canadian Journal of Botany</i> , 2000, 78, 1336-1347.	1.2	59
29	Forest protection and tenure status: The key role of indigenous peoples and protected areas in Panama. <i>Global Environmental Change</i> , 2014, 28, 205-215.	3.6	58
30	Carbon sequestration potential of tropical pasture compared with afforestation in Panama. <i>Global Change Biology</i> , 2011, 17, 2763-2780.	4.2	54
31	Photosynthetic response to growth temperature and CO ₂ enrichment in two species of C ₄ grasses. <i>Canadian Journal of Botany</i> , 1985, 63, 483-487.	1.2	49
32	Effect of diversity on growth, mortality, and loss of resilience to extreme climate events in a tropical planted forest experiment. <i>Scientific Reports</i> , 2018, 8, 15443.	1.6	49
33	Tree Diversity Explains Variation in Ecosystem Function in a Neotropical Forest in Panama. <i>Biotropica</i> , 2010, 42, 638-646.	0.8	47
34	Conservation of Useful Plants: An Evaluation of Local Priorities from Two Indigenous Communities in Eastern Panama. <i>Economic Botany</i> , 2004, 58, 38-57.	0.8	45
35	Root architecture and allocation patterns of eight native tropical species with different successional status used in open-grown mixed plantations in Panama. <i>Trees - Structure and Function</i> , 2008, 22, 585-596.	0.9	44
36	Effect of low temperature on the photosynthetic metabolism of the C ₄ grass <i>Echinochloa crus-galli</i> . <i>Oecologia</i> , 1986, 69, 499-506.	0.9	41

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37	Tree mixture effects on aboveground nutrient pools of trees in an experimental plantation in Panama. <i>Plant and Soil</i> , 2010, 326, 199-212.	1.8	40
38	Significance of carbon stock uncertainties on emission reductions from deforestation and forest degradation in developing countries. <i>Forest Policy and Economics</i> , 2012, 24, 3-11.	1.5	40
39	Strong seasonal variations in net ecosystem CO ₂ exchange of a tropical pasture and afforestation in Panama. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 1139-1151.	1.9	38
40	Effects of CO ₂ enrichment and temperature on growth in two C ₄ weeds, <i>Echinochloa crus-galli</i> and <i>Eleusine indica</i> . <i>Canadian Journal of Botany</i> , 1985, 63, 1495-1499.	1.2	37
41	Neighbourhood-mediated shifts in tree biomass allocation drive overyielding in tropical species mixtures. <i>New Phytologist</i> , 2020, 228, 1256-1268.	3.5	37
42	Unearthing the hidden world of roots: Root biomass and architecture differ among species within the same guild. <i>PLoS ONE</i> , 2017, 12, e0185934.	1.1	37
43	Effects of Temperature and CO ₂ Enrichment on Carbon Translocation of Plants of the C ₄ Grass Species <i>Echinochloa crus-galli</i> (L.) Beauv. from Cool and Warm Environments. <i>Plant Physiology</i> , 1984, 75, 1054-1057.	2.3	34
44	A Case Study of Carbon Pools Under Three Different Land-Uses in Panama. <i>Climatic Change</i> , 2004, 67, 291-307.	1.7	34
45	Engaging Stakeholders: Assessing Accuracy of Participatory Mapping of Land Cover in Panama. <i>Conservation Letters</i> , 2015, 8, 432-439.	2.8	31
46	Linking multiple-level tree traits with biomass accumulation in native tree species used for reforestation in Panama. <i>Trees - Structure and Function</i> , 2008, 22, 337-349.	0.9	27
47	Do multipurpose companion trees affect high value timber trees in a silvopastoral plantation system?. <i>Agroforestry Systems</i> , 2011, 81, 79-92.	0.9	27
48	Linking tree biodiversity to belowground process in a young tropical plantation: Impacts on soil CO ₂ flux. <i>Forest Ecology and Management</i> , 2008, 255, 2577-2588.	1.4	25
49	Beyond shading: Litter production by neighbors contributes to overyielding in tropical trees. <i>Ecology</i> , 2013, 94, 941-952.	1.5	25
50	Maintaining the high diversity of pine and oak species in Mexican temperate forests: a new management approach combining functional zoning and ecosystem adaptability. <i>Canadian Journal of Forest Research</i> , 2015, 45, 1358-1368.	0.8	25
51	A review of toxic metal contamination in marine turtle tissues and its implications for human health. <i>Regional Studies in Marine Science</i> , 2017, 15, 1-9.	0.4	25
52	Thermal adaptation and acclimation of higher plants at the enzyme level: kinetic properties of NAD malate dehydrogenase and glutamate oxaloacetate transaminase in two genotypes of <i>Arabidopsis thaliana</i> (Brassicaceae). <i>Oecologia</i> , 1983, 60, 143-148.	0.9	24
53	Effects of temperature and CO ₂ enrichment on kinetic properties of phospho-enol-pyruvate carboxylase in two ecotypes of <i>Echinochloa crus-galli</i> (L.) Beauv., a C ₄ weed grass species. <i>Oecologia</i> , 1984, 63, 145-152.	0.9	24
54	Financing REDD in developing countries: a supply and demand analysis. <i>Climate Policy</i> , 2010, 10, 216-231.	2.6	23

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55	Root quality and decomposition environment, but not tree species richness, drive root decomposition in tropical forests. <i>Plant and Soil</i> , 2016, 404, 125-139.	1.8	23
56	Effect of Leaf Detachment on Chlorophyll Fluorescence during Chilling Experiments. <i>Plant Physiology</i> , 1985, 78, 883-886.	2.3	22
57	Natural pasture community response to enriched carbon dioxide atmosphere. <i>Plant Ecology</i> , 1998, 135, 31-41.	0.7	22
58	REDD+ and the agriculture frontier: Understanding colonists'™ utilization of the land. <i>Land Use Policy</i> , 2013, 31, 516-525.	2.5	22
59	Early REDD+ Implementation: The Journey of an Indigenous Community in Eastern Panama. <i>Forests</i> , 2017, 8, 67.	0.9	22
60	Maternal Effects of Temperature on Metabolism in the C ₄ Weed <i>Echinochloa Crus-Galli</i> . <i>Ecology</i> , 1991, 72, 1973-1979.	1.5	20
61	Is reducing emissions from deforestation financially feasible? A Panamanian case study. <i>Climate Policy</i> , 2008, 8, 23-40.	2.6	20
62	Responses of black spruce seedlings to simulated present versus future seedbed environments. <i>Canadian Journal of Forest Research</i> , 1995, 25, 545-554.	0.8	19
63	Title is missing!. <i>Biodiversity and Conservation</i> , 2002, 11, 637-667.	1.2	19
64	A participatory approach to the establishment of a baseline scenario for a reforestation Clean Development Mechanism project. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2007, 12, 1341-1362.	1.0	19
65	Traditional shifting agriculture: tracking forest carbon stock and biodiversity through time in western Panama. <i>Global Change Biology</i> , 2012, 18, 3581-3595.	4.2	18
66	Differences in photosynthetic characteristics among northern and southern C ₄ plants. <i>Physiologia Plantarum</i> , 1987, 69, 659-664.	2.6	17
67	A comparison of influences on the landscape of two social-ecological systems. <i>Land Use Policy</i> , 2016, 57, 499-513.	2.5	17
68	Coarse root architecture: Neighbourhood and abiotic environmental effects on five tropical tree species growing in mixtures and monocultures. <i>Forest Ecology and Management</i> , 2020, 460, 117851.	1.4	17
69	Towards a dashboard of sustainability indicators for Panama: A participatory approach. <i>Ecological Indicators</i> , 2016, 70, 545-556.	2.6	16
70	Tree diversity effects on soil microbial biomass and respiration are context dependent across forest diversity experiments. <i>Global Ecology and Biogeography</i> , 2022, 31, 872-885.	2.7	16
71	Temperature-induced variation in reproductive success: field and control experiments with the C ₄ grass <i>Echinochloa crus-galli</i> . <i>Canadian Journal of Botany</i> , 1991, 69, 1577-1582.	1.2	15
72	Tree species and diversity effects on soil water seepage in a tropical plantation. <i>Forest Ecology and Management</i> , 2013, 309, 76-86.	1.4	15

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73	Avoiding Reâ€inventing the Wheel in a Peopleâ€Centered Approach to REDD+. <i>Conservation Biology</i> , 2014, 28, 1380-1393.	2.4	15
74	Agroforestry within REDD+: experiences of an indigenous EmberÃ community in Panama. <i>Agroforestry Systems</i> , 2017, 91, 1181-1197.	0.9	15
75	Time matters: Temporally changing effects of planting schemes and insecticide treatment on native timber tree performance on former pasture. <i>Forest Ecology and Management</i> , 2013, 297, 49-56.	1.4	13
76	Does Tree Species Composition Affect Productivity in a Tropical Planted Forest?. <i>Biotropica</i> , 2015, 47, 559-568.	0.8	13
77	Characterizing desired futures of Canadian communities. <i>Futures</i> , 2016, 82, 37-51.	1.4	13
78	Metal contents of marine turtle eggs (<i>Chelonia mydas</i> ; <i>Lepidochelys olivacea</i>) from the tropical eastern pacific and the implications for human health. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2016, 51, 675-687.	0.7	13
79	Reimagining energy in the Canadian boreal zone: policy needs to facilitate a successful transition to a low-carbon energy future ¹ . <i>Environmental Reviews</i> , 2019, 27, 393-406.	2.1	13
80	Addressing uncertainty upstream or downstream of accounting for emissions reductions from deforestation and forest degradation. <i>Climatic Change</i> , 2015, 130, 635-648.	1.7	11
81	High tree diversity enhances light interception in tropical forests. <i>Journal of Ecology</i> , 2021, 109, 2597-2611.	1.9	10
82	Thermal properties of NAD malate dehydrogenase and glutamate oxaloacetate transaminase in two genotypes of <i>Arabidopsis thaliana</i> (Cruciferae) from contrasting environments. <i>Plant Science Letters</i> , 1983, 31, 35-47.	1.9	9
83	Understanding the long-term effect of CO ₂ enrichment on a pasture: the importance of disturbance. <i>Canadian Journal of Botany</i> , 1997, 75, 1621-1627.	1.2	9
84	Drivers of within-tree leaf trait variation in a tropical planted forest varying in tree species richness. <i>Basic and Applied Ecology</i> , 2021, 50, 203-216.	1.2	9
85	Are indigenous territories effective natural climate solutions? A neotropical analysis using matching methods and geographic discontinuity designs. <i>PLoS ONE</i> , 2021, 16, e0245110.	1.1	9
86	Full and effective participation of indigenous peoples in forest monitoring for reducing emissions from deforestation and forest degradation (<sc>REDD</sc>+): trial in Panama's DariÃ©n. <i>Ecosphere</i> , 2017, 8, e01635.	1.0	8
87	Maternally-induced modification of progeny phenotypes in the C4 weed <i>Echinochloa crus-galli</i> : An analysis of seed constituents and performance. <i>Oecologia</i> , 1993, 93, 383-388.	0.9	7
88	Indigenous perspective to inform rights-based conservation in a protected area of Panama. <i>Land Use Policy</i> , 2019, 83, 297-307.	2.5	7
89	Natural and financial impacts of payments for forest carbon offset: A 14 year-long case study in an indigenous community in Panama. <i>Land Use Policy</i> , 2022, 115, 106047.	2.5	7
90	A participatory approach to elucidate the consequences of land invasions on REDD+ initiatives: A case study with Indigenous communities in Panama. <i>PLoS ONE</i> , 2017, 12, e0189463.	1.1	6

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91	Effects of temperature and CO2 enrichment on kinetic properties of NADP+-malate dehydrogenase in two ecotypes of Barnyard grass (<i>Echinochloa crus-galli</i> (L.) Beauv.) from contrasting climates. <i>Oecologia</i> , 1989, 81, 138-144.	0.9	5
92	Concluding Remarks: A Drop in the Ocean. <i>Ecology</i> , 1993, 74, 1674-1676.	1.5	4
93	Changes from pasture to a native tree plantation affect soil organic matter in a tropical soil, Panamá. <i>Plant and Soil</i> , 2018, 425, 133-143.	1.8	4
94	Tree aboveground biomass and species richness of the mature tropical forests of Darien, Panama, and their role in global climate change mitigation and biodiversity conservation. <i>Conservation Science and Practice</i> , 2019, 1, e42.	0.9	4
95	Influence of neighbourhoods on the extent and compactness of tropical tree crowns and root systems. <i>Trees - Structure and Function</i> , 2021, 35, 1673-1686.	0.9	4
96	Building a common description of land cover in a tropical watershed plagued with intercultural conflicts: The value of participatory 3D modelling. <i>Facets</i> , 2017, 2, 195-211.	1.1	3
97	Stimulating a Canadian narrative for climate. <i>Facets</i> , 2017, 2, 131-149.	1.1	3
98	BIODIVERSITY AND ECOSYSTEM FUNCTIONING: IMPORTANCE OF SPECIES EVENNESS IN AN OLD FIELD. , 2000, 81, 887.		3
99	Temporal Soundscape Patterns in a Panamanian Tree Diversity Experiment: Polycultures Show an Increase in High Frequency Cover. <i>Frontiers in Ecology and Evolution</i> , 2022, 10, .	1.1	2
100	The effect of long-term CO2 enrichment on carbon and nitrogen content of roots and soil of natural pastureland. <i>Folia Oecologica</i> , 2021, 48, 180-190.	0.4	0