Catherine Potvin

List of Publications by Year
in descending order

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	For the sake of resilience and multifunctionality, let's diversify planted forests!. Conservation Letters, 2022, 15, e12829.	2.8	124
2	Temporal Soundscape Patterns in a Panamanian Tree Diversity Experiment: Polycultures Show an Increase in High Frequency Cover. Frontiers in Ecology and Evolution, 2022, 10, .	1.1	2
3	Tree diversity effects on soil microbial biomass and respiration are context dependent across forest diversity experiments. Global Ecology and Biogeography, 2022, 31, 872-885.	2.7	16
4	Natural and financial impacts of payments for forest carbon offset: A 14 year-long case study in an indigenous community in Panama. Land Use Policy, 2022, 115, 106047.	2.5	7
5	Drivers of within-tree leaf trait variation in a tropical planted forest varying in tree species richness. Basic and Applied Ecology, 2021, 50, 203-216.	1.2	9
6	High tree diversity enhances light interception in tropical forests. Journal of Ecology, 2021, 109, 2597-2611.	1.9	10
7	Influence of neighbourhoods on the extent and compactness of tropical tree crowns and root systems. Trees - Structure and Function, 2021, 35, 1673-1686.	0.9	4
8	The effect of long-term CO2 enrichment on carbon and nitrogen content of roots and soil of natural pastureland. Folia Oecologica, 2021, 48, 180-190.	0.4	0
9	Are indigenous territories effective natural climate solutions? A neotropical analysis using matching methods and geographic discontinuity designs. PLoS ONE, 2021, 16, e0245110.	1.1	9
10	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	4.2	1,038
11	Neighbourhoodâ€mediated shifts in tree biomass allocation drive overyielding in tropical species mixtures. New Phytologist, 2020, 228, 1256-1268.	3.5	37
12	Coarse root architecture: Neighbourhood and abiotic environmental effects on five tropical tree species growing in mixtures and monocultures. Forest Ecology and Management, 2020, 460, 117851.	1.4	17
13	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. Conservation Science and Practice, 2019, 1, e42.	0.9	4
14	Drivers of productivity and its temporal stability in a tropical tree diversity experiment. Global Change Biology, 2019, 25, 4257-4272.	4.2	93
15	Reimagining energy in the Canadian boreal zone: policy needs to facilitate a successful transition to a low-carbon energy future1. Environmental Reviews, 2019, 27, 393-406.	2.1	13
16	Indigenous perspective to inform rights-based conservation in a protected area of Panama. Land Use Policy, 2019, 83, 297-307.	2.5	7
17	Changes from pasture to a native tree plantation affect soil organic matter in a tropical soil, PanamÃ¡. Plant and Soil, 2018, 425, 133-143.	1.8	4
18	Effect of diversity on growth, mortality, and loss of resilience to extreme climate events in a tropical planted forest experiment. Scientific Reports, 2018, 8, 15443.	1.6	49

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19	Full and effective participation of indigenous peoples in forest monitoring for reducing emissions from deforestation and forest degradation (<scp>REDD</scp>+): trial in Panama's DariÃ©n. Ecosphere, 2017, 8, e01635.	1.0	8
20	Diversity-dependent temporal divergence of ecosystem functioning in experimental ecosystems. Nature Ecology and Evolution, 2017, 1, 1639-1642.	3.4	95
21	A review of toxic metal contamination in marine turtle tissues and its implications for human health. Regional Studies in Marine Science, 2017, 15, 1-9.	0.4	25
22	Agroforestry within REDD+: experiences of an indigenous EmberÃ¡ community in Panama. Agroforestry Systems, 2017, 91, 1181-1197.	0.9	15
23	Early REDD+ Implementation: The Journey of an Indigenous Community in Eastern Panama. Forests, 2017, 8, 67.	0.9	22
24	Building a common description of land cover in a tropical watershed plagued with intercultural conflicts: The value of participatory 3D modelling. Facets, 2017, 2, 195-211.	1.1	3
25	Stimulating a Canadian narrative for climate. Facets, 2017, 2, 131-149.	1.1	3
26	Unearthing the hidden world of roots: Root biomass and architecture differ among species within the same guild. PLoS ONE, 2017, 12, e0185934.	1.1	37
27	A participatory approach to elucidate the consequences of land invasions on REDD+ initiatives: A case study with Indigenous communities in Panama. PLoS ONE, 2017, 12, e0189463.	1.1	6
28	A comparison of influences on the landscape of two social-ecological systems. Land Use Policy, 2016, 57, 499-513.	2.5	17
29	Characterizing desired futures of Canadian communities. Futures, 2016, 82, 37-51.	1.4	13
30	Towards a dashboard of sustainability indicators for Panama: A participatory approach. Ecological Indicators, 2016, 70, 545-556.	2.6	16
31	Metal contents of marine turtle eggs (Chelonia mydas; Lepidochelys olivacea) from the tropical eastern pacific and the implications for human health. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2016, 51, 675-687.	0.7	13
32	Root quality and decomposition environment, but not tree species richness, drive root decomposition in tropical forests. Plant and Soil, 2016, 404, 125-139.	1.8	23
33	Contributions of a global network of tree diversity experiments to sustainable forest plantations. Ambio, 2016, 45, 29-41.	2.8	203
34	Engaging Stakeholders: Assessing Accuracy of Participatory Mapping of Land Cover in Panama. Conservation Letters, 2015, 8, 432-439.	2.8	31
35	Does Tree Species Composition Affect Productivity in a Tropical Planted Forest?. Biotropica, 2015, 47, 559-568.	0.8	13
36	Globally, functional traits are weak predictors of juvenile tree growth, and we do not know why. Journal of Ecology, 2015, 103, 978-989.	1.9	131

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37	Addressing uncertainty upstream or downstream of accounting for emissions reductions from deforestation and forest degradation. Climatic Change, 2015, 130, 635-648.	1.7	11
38	Maintaining the high diversity of pine and oak species in Mexican temperate forests: a new management approach combining functional zoning and ecosystem adaptability. Canadian Journal of Forest Research, 2015, 45, 1358-1368.	0.8	25
39	Avoiding Reâ€Inventing the Wheel in a Peopleâ€Centered Approach to REDD+. Conservation Biology, 2014, 28, 1380-1393.	2.4	15
40	Tropical tree diversity enhances light capture through crown plasticity and spatial and temporal niche differences. Ecology, 2014, 95, 2479-2492.	1.5	178
41	Forest protection and tenure status: The key role of indigenous peoples and protected areas in Panama. Global Environmental Change, 2014, 28, 205-215.	3.6	58
42	Tree species and diversity effects on soil water seepage in a tropical plantation. Forest Ecology and Management, 2013, 309, 76-86.	1.4	15
43	Beyond shading: Litter production by neighbors contributes to overyielding in tropical trees. Ecology, 2013, 94, 941-952.	1.5	25
44	Time matters: Temporally changing effects of planting schemes and insecticide treatment on native timber tree performance on former pasture. Forest Ecology and Management, 2013, 297, 49-56.	1.4	13
45	REDD+ and the agriculture frontier: Understanding colonistsâ€™ utilization of the land. Land Use Policy, 2013, 31, 516-525.	2.5	22
46	Traditional shifting agriculture: tracking forest carbon stock and biodiversity through time in western Panama. Global Change Biology, 2012, 18, 3581-3595.	4.2	18
47	Significance of carbon stock uncertainties on emission reductions from deforestation and forest degradation in developing countries. Forest Policy and Economics, 2012, 24, 3-11.	1.5	40
48	Tree diversity enhances tree transpiration in a Panamanian forest plantation. Journal of Applied Ecology, 2012, 49, 135-144.	1.9	101
49	Strong seasonal variations in net ecosystem CO2 exchange of a tropical pasture and afforestation in Panama. Agricultural and Forest Meteorology, 2011, 151, 1139-1151.	1.9	38
50	An ecosystem approach to biodiversity effects: Carbon pools in a tropical tree plantation. Forest Ecology and Management, 2011, 261, 1614-1624.	1.4	59
51	Establishment of native tropical timber trees in monoculture and mixed-species plantations: Small-scale effects on tree performance and insect herbivory. Forest Ecology and Management, 2011, 261, 741-750.	1.4	63
52	Carbon sequestration potential of tropical pasture compared with afforestation in Panama. Global Change Biology, 2011, 17, 2763-2780.	4.2	54
53	Can we predict carbon stocks in tropical ecosystems from tree diversity? Comparing species and functional diversity in a plantation and a natural forest. New Phytologist, 2011, 189, 978-987.	3.5	132
54	Do multipurpose companion trees affect high value timber trees in a silvopastoral plantation system?. Agroforestry Systems, 2011, 81, 79-92.	0.9	27

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55	Tree mixture effects on aboveground nutrient pools of trees in an experimental plantation in Panama. Plant and Soil, 2010, 326, 199-212.	1.8	40
56	Tree Diversity Explains Variation in Ecosystem Function in a Neotropical Forest in Panama. Biotropica, 2010, 42, 638-646.	0.8	47
57	Financing REDD in developing countries: a supply and demand analysis. Climate Policy, 2010, 10, 216-231.	2.6	23
58	Avoiding deforestation in Panamanian protected areas: An analysis of protection effectiveness and implications for reducing emissions from deforestation and forest degradation. Global Environmental Change, 2009, 19, 279-291.	3.6	67
59	Neighborhood effects and sizeâ€asymmetric competition in a tree plantation varying in diversity. Ecology, 2009, 90, 321-327.	1.5	122
60	Linking multiple-level tree traits with biomass accumulation in native tree species used for reforestation in Panama. Trees - Structure and Function, 2008, 22, 337-349.	0.9	27
61	Root architecture and allocation patterns of eight native tropical species with different successional status used in open-grown mixed plantations in Panama. Trees - Structure and Function, 2008, 22, 585-596.	0.9	44
62	Biodiversity enhances individual performance but does not affect survivorship in tropical trees. Ecology Letters, 2008, 11, 217-223.	3.0	171
63	Partitioning the effects of biodiversity and environmental heterogeneity for productivity and mortality in a tropical tree plantation. Journal of Ecology, 2008, 96, 903-913.	1.9	99
64	Linking tree biodiversity to belowground process in a young tropical plantation: Impacts on soil CO2 flux. Forest Ecology and Management, 2008, 255, 2577-2588.	1.4	25
65	Is reducing emissions from deforestation financially feasible? A Panamanian case study. Climate Policy, 2008, 8, 23-40.	2.6	20
66	Variation in carbon storage among tree species: Implications for the management of a small-scale carbon sink project. Forest Ecology and Management, 2007, 246, 208-221.	1.4	306
67	Tree species richness affects litter production and decomposition rates in a tropical biodiversity experiment. Oikos, 2007, 116, 2108-2124.	1.2	179
68	Indigenous livelihoods, slash-and-burn agriculture, and carbon stocks in Eastern Panama. Ecological Economics, 2007, 60, 807-820.	2.9	91
69	A participatory approach to the establishment of a baseline scenario for a reforestation Clean Development Mechanism project. Mitigation and Adaptation Strategies for Global Change, 2007, 12, 1341-1362.	1.0	19
70	Conservation of Useful Plants: An Evaluation of Local Priorities from Two Indigenous Communities in Eastern Panama. Economic Botany, 2004, 58, 38-57.	0.8	45
71	A Case Study of Carbon Pools Under Three Different Land-Uses in Panamï¿½. Climatic Change, 2004, 67, 291-307.	1.7	34
72	Carbon storage of harvest-age teak (Tectona grandis) plantations, Panama. Forest Ecology and Management, 2003, 173, 213-225.	1.4	136

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73	Assessing inter- and intra-specific variation in trunk carbon concentration for 32 neotropical tree species. Canadian Journal of Forest Research, 2003, 33, 1039-1045.	0.8	136
74	Tropical pasture carbon cycling: relationships between C source/sink strength, above-ground biomass and grazing. Ecology Letters, 2002, 5, 367-376.	3.0	70
75	Title is missing!. Biodiversity and Conservation, 2002, 11, 637-667.	1.2	19
76	Optimum experimental design for Free-Air Carbon dioxide Enrichment (FACE) studies. Global Change Biology, 2000, 6, 843-854.	4.2	76
77	BIODIVERSITY AND ECOSYSTEM FUNCTIONING: IMPORTANCE OF SPECIES EVENNESS IN AN OLD FIELD. Ecology, 2000, 81, 887-892.	1.5	322
78	In situ field measurements of photosynthetic rates of tropical tree species: a test of the functional group hypothesis. Canadian Journal of Botany, 2000, 78, 1336-1347.	1.2	59
79	BIODIVERSITY AND ECOSYSTEM FUNCTIONING: IMPORTANCE OF SPECIES EVENNESS IN AN OLD FIELD. , 2000, 81, 887.		3
80	Natural pasture community response to enriched carbon dioxide atmosphere. Plant Ecology, 1998, 135, 31-41.	0.7	22
81	Understanding the long-term effect of CO₂ enrichment on a pasture: the importance of disturbance. Canadian Journal of Botany, 1997, 75, 1621-1627.	1.2	9
82	LONG-TERM CO2ENRICHMENT OF A PASTURE COMMUNITY: SPECIES RICHNESS, DOMINANCE, AND SUCCESSION. Ecology, 1997, 78, 666-677.	1.5	66
83	Evolutionary consequences of simulated global change: genetic adaptation or adaptive phenotypic plasticity. Oecologia, 1996, 108, 683-693.	0.9	76
84	Responses of black spruce seedlings to simulated present versus future seedbed environments. Canadian Journal of Forest Research, 1995, 25, 545-554.	0.8	19
85	Maternally-induced modification of progeny phenotypes in the C4 weed Echinochloa crus-galli: An analysis of seed constituents and performance. Oecologia, 1993, 93, 383-388.	0.9	7
86	Distribution-Free and Robust Statistical Methods: Viable Alternatives to Parametric Statistics. Ecology, 1993, 74, 1617-1628.	1.5	365
87	Concluding Remarks: A Drop in the Ocean. Ecology, 1993, 74, 1674-1676.	1.5	4
88	Temperature-induced variation in reproductive success: field and control experiments with the C₄ grass Echinochloa crus-galli. Canadian Journal of Botany, 1991, 69, 1577-1582.	1.2	15
89	Maternal Effects of Temperature on Metabolism in the C_4 Weed Echinochloa Crus-Galli. Ecology, 1991, 72, 1973-1979.	1.5	20
90	The Statistical Analysis of Ecophysiological Response Curves Obtained from Experiments Involving Repeated Measures. Ecology, 1990, 71, 1389-1400.	1.5	592

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91	Effects of temperature and CO2 enrichment on kinetic properties of NADP+-malate dehydrogenase in two ecotypes of Barnyard grass (Echinochloa crus-galli (L.) Beauv.) from contrasting climates. Oecologia, 1989, 81, 138-144.	0.9	5
92	Differences in photosynthetic characteristics among northern and southern C4 plants. Physiologia Plantarum, 1987, 69, 659-664.	2.6	17
93	Effect of low temperature on the photosynthetic metabolism of the C4 grass Echinochloa crus-galli. Oecologia, 1986, 69, 499-506.	0.9	41
94	Effect of Leaf Detachment on Chlorophyll Fluorescence during Chilling Experiments. Plant Physiology, 1985, 78, 883-886.	2.3	22
95	Photosynthetic response to growth temperature and CO2 enrichment in two species of C4 grasses. Canadian Journal of Botany, 1985, 63, 483-487.	1.2	49
96	Effects of CO2 enrichment and temperature on growth in two C4 weeds, Echinochloa crus-galli and Eleusine indica. Canadian Journal of Botany, 1985, 63, 1495-1499.	1.2	37
97	Effects of Temperature and CO₂ Enrichment on Carbon Translocation of Plants of the C₄ Grass Species Echinochloa crus-galli (L.) Beauv. from Cool and Warm Environments. Plant Physiology, 1984, 75, 1054-1057.	2.3	34
98	Effects of temperature and CO2 enrichment on kinetic properties of phospho-enol-pyruvate carboxylase in two ecotypes of Echinochloa crus-galli (L.) Beauv., a C4 weed grass species. Oecologia, 1984, 63, 145-152.	0.9	24
99	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 Arabidopsis thaliana (Brassicaceae). Oecologia, 1983, 60, 143-148.	0.9	24
100	Thermal properties of NAD malate dehydrogenase and glutamate oxaloacetate transaminase in two genotypes of Arabidopsis thaliana (Cruciferae) from contrasting environments. Plant Science Letters, 1983, 31, 35-47.	1.9	9