

List of Publications by Year in
Descending Order

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Version: 2024-04-09

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70 papers	3,896 citations	34 h-index	62 g-index
78 ext. papers	4,945 ext. citations	6.7 avg, IF	4.79 L-index

#	Paper	IF	Citations
70	Annual to decadal temperature adaptation of the soil bacterial community after translocation across an elevation gradient in the Andes. <i>Soil Biology and Biochemistry</i> , 2021 , 158, 108217	7.5	2
69	Reduced tree density and basal area in Andean forests are associated with bamboo dominance. <i>Forest Ecology and Management</i> , 2021 , 480, 118648	3.9	3
68	Pantropical modelling of canopy functional traits using Sentinel-2 remote sensing data. <i>Remote Sensing of Environment</i> , 2021 , 252, 112122	13.2	15
67	Evolutionary heritage shapes tree distributions along an Amazon-to-Andes elevation gradient. <i>Biotropica</i> , 2021 , 53, 38-50	2.3	9
66	The Global Ecosystems Monitoring network: Monitoring ecosystem productivity and carbon cycling across the tropics. <i>Biological Conservation</i> , 2021 , 253, 108889	6.2	12
65	Functional rarity and evenness are key facets of biodiversity to boost multifunctionality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	12
64	Development of global temperature and pH calibrations based on bacterial 3-hydroxy fatty acids in soils. <i>Biogeosciences</i> , 2021 , 18, 3937-3959	4.6	2
63	Aboveground biomass in secondary montane forests in Peru: Slow carbon recovery in agroforestry legacies. <i>Global Ecology and Conservation</i> , 2021 , 28, e01696	2.8	3
62	The evolutionary assembly of forest communities along environmental gradients: recent diversification or sorting of pre-adapted clades?. <i>New Phytologist</i> , 2021 , 232, 2506-2519	9.8	0
61	The Influence of Ecosystem and Phylogeny on Tropical Tree Crown Size and Shape. <i>Frontiers in Forests and Global Change</i> , 2020 , 3,	3.7	3
60	Changes in oak (<i>Quercus robur</i>) photosynthesis after winter moth (<i>Operophtera brumata</i>) herbivory are not explained by changes in chemical or structural leaf traits. <i>PLoS ONE</i> , 2020 , 15, e0228157	3.7	0
59	The Influence of Taxonomy and Environment on Leaf Trait Variation Along Tropical Abiotic Gradients. <i>Frontiers in Forests and Global Change</i> , 2020 , 3,	3.7	6
58	Trade-Offs Among Aboveground, Belowground, and Soil Organic Carbon Stocks Along Altitudinal Gradients in Andean Tropical Montane Forests. <i>Frontiers in Plant Science</i> , 2020 , 11, 106	6.2	9
57	Physiological responses of maca (<i>Lepidium meyenii</i> Walp.) plants to UV radiation in its high-altitude mountain ecosystem. <i>Scientific Reports</i> , 2020 , 10, 2654	4.9	9
56	Linking patterns and processes of tree community assembly across spatial scales in tropical montane forests. <i>Ecology</i> , 2020 , 101, e03058	4.6	6
55	Methane Emissions from a Grassland-Wetland Complex in the Southern Peruvian Andes. <i>Soil Systems</i> , 2019 , 3, 2	3.5	1
54	Individual-Based Modeling of Amazon Forests Suggests That Climate Controls Productivity While Traits Control Demography. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	12

53	Microbial responses to warming enhance soil carbon loss following translocation across a tropical forest elevation gradient. <i>Ecology Letters</i> , 2019 , 22, 1889-1899	10	18
52	Covariance of Sun and Shade Leaf Traits Along a Tropical Forest Elevation Gradient. <i>Frontiers in Plant Science</i> , 2019 , 10, 1810	6.2	10
51	Opposite latitudinal patterns for bird and arthropod predation revealed in experiments with differently colored artificial prey. <i>Ecology and Evolution</i> , 2019 , 9, 14273-14285	2.8	20
50	Informing trait-based ecology by assessing remotely sensed functional diversity across a broad tropical temperature gradient. <i>Science Advances</i> , 2019 , 5, eaaw8114	14.3	29
49	Carbon and nitrogen inputs differentially affect priming of soil organic matter in tropical lowland and montane soils. <i>Soil Biology and Biochemistry</i> , 2019 , 129, 212-222	7.5	35
48	Adaptation of soil microbial growth to temperature: Using a tropical elevation gradient to predict future changes. <i>Global Change Biology</i> , 2019 , 25, 827-838	11.4	41
47	Structural and defensive roles of angiosperm leaf venation network reticulation across an Andes-Amazon elevation gradient. <i>Journal of Ecology</i> , 2018 , 106, 1683-1699	6	8
46	Microbes follow Humboldt: temperature drives plant and soil microbial diversity patterns from the Amazon to the Andes. <i>Ecology</i> , 2018 , 99, 2455-2466	4.6	95
45	Nutrient limitations to bacterial and fungal growth during cellulose decomposition in tropical forest soils. <i>Biology and Fertility of Soils</i> , 2018 , 54, 219-228	6.1	50
44	Tropical forest leaves may darken in response to climate change. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1918-1924	12.3	16
43	Scaling leaf respiration with nitrogen and phosphorus in tropical forests across two continents. <i>New Phytologist</i> , 2017 , 214, 1064-1077	9.8	19
42	Predicting trait-environment relationships for venation networks along an Andes-Amazon elevation gradient. <i>Ecology</i> , 2017 , 98, 1239-1255	4.6	20
41	Altitude effect on leaf wax carbon isotopic composition in humid tropical forests. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 206, 1-17	5.5	36
40	Solar radiation and functional traits explain the decline of forest primary productivity along a tropical elevation gradient. <i>Ecology Letters</i> , 2017 , 20, 730-740	10	62
39	Can Leaf Spectroscopy Predict Leaf and Forest Traits Along a Peruvian Tropical Forest Elevation Gradient?. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 2952-2965	3.7	10
38	Assessing trait-based scaling theory in tropical forests spanning a broad temperature gradient. <i>Global Ecology and Biogeography</i> , 2017 , 26, 1357-1373	6.1	29
37	The variation of productivity and its allocation along a tropical elevation gradient: a whole carbon budget perspective. <i>New Phytologist</i> , 2017 , 214, 1019-1032	9.8	68
36	Scale dependence of canopy trait distributions along a tropical forest elevation gradient. <i>New Phytologist</i> , 2017 , 214, 973-988	9.8	40

35	Leaf-level photosynthetic capacity in lowland Amazonian and high-elevation Andean tropical moist forests of Peru. <i>New Phytologist</i> , 2017 , 214, 1002-1018	9.8	62
34	Variation in leaf wettability traits along a tropical montane elevation gradient. <i>New Phytologist</i> , 2017 , 214, 989-1001	9.8	35
33	Examining variation in the leaf mass per area of dominant species across two contrasting tropical gradients in light of community assembly. <i>Ecology and Evolution</i> , 2016 , 6, 5674-89	2.8	18
32	Production of leaf wax n-alkanes across a tropical forest elevation transect. <i>Organic Geochemistry</i> , 2016 , 100, 89-100	3.1	49
31	Plant leaf wax biomarkers capture gradients in hydrogen isotopes of precipitation from the Andes and Amazon. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 182, 155-172	5.5	68
30	Temperature sensitivity of soil enzymes along an elevation gradient in the Peruvian Andes. <i>Biogeochemistry</i> , 2016 , 127, 217-230	3.8	45
29	Optimal stomatal behaviour around the world. <i>Nature Climate Change</i> , 2015 , 5, 459-464	21.4	264
28	Climate Warming and Soil Carbon in Tropical Forests: Insights from an Elevation Gradient in the Peruvian Andes. <i>BioScience</i> , 2015 , 65, 906-921	5.7	53
27	Phylogenetic diversity of Amazonian tree communities. <i>Diversity and Distributions</i> , 2015 , 21, 1295-1307	5	56
26	Soil microbial nutrient constraints along a tropical forest elevation gradient: a belowground test of a biogeochemical paradigm. <i>Biogeosciences</i> , 2015 , 12, 6071-6083	4.6	42
25	Global variability in leaf respiration in relation to climate, plant functional types and leaf traits. <i>New Phytologist</i> , 2015 , 206, 614-36	9.8	244
24	The linkages between photosynthesis, productivity, growth and biomass in lowland Amazonian forests. <i>Global Change Biology</i> , 2015 , 21, 2283-95	11.4	105
23	Lista anotada de E boles y afines en los bosques montanos del sureste peruano: la importancia de seguir recolectando. <i>Revista Peruana De Biología</i> , 2015 , 22, 145	1.2	5
22	Herbivory makes major contributions to ecosystem carbon and nutrient cycling in tropical forests. <i>Ecology Letters</i> , 2014 , 17, 324-32	10	140
21	Spatial patterns of above-ground structure, biomass and composition in a network of six Andean elevation transects. <i>Plant Ecology and Diversity</i> , 2014 , 7, 161-171	2.2	60
20	Changes in forest structure and composition after fire in tropical montane cloud forests near the Andean treeline. <i>Plant Ecology and Diversity</i> , 2014 , 7, 329-340	2.2	24
19	Temperature sensitivity of soil respiration rates enhanced by microbial community response. <i>Nature</i> , 2014 , 513, 81-4	50.4	368
18	Productivity and carbon allocation in a tropical montane cloud forest in the Peruvian Andes. <i>Plant Ecology and Diversity</i> , 2014 , 7, 107-123	2.2	55

17	Microbial community composition explains soil respiration responses to changing carbon inputs along an Andes-to-Amazon elevation gradient. <i>Journal of Ecology</i> , 2014 , 102, 1058-1071	6	133
16	Seasonal production, allocation and cycling of carbon in two mid-elevation tropical montane forest plots in the Peruvian Andes. <i>Plant Ecology and Diversity</i> , 2014 , 7, 125-142	2.2	38
15	Microbial carbon mineralization in tropical lowland and montane forest soils of Peru. <i>Frontiers in Microbiology</i> , 2014 , 5, 720	5.7	23
14	Seasonality of above-ground net primary productivity along an Andean altitudinal transect in Peru. <i>Journal of Tropical Ecology</i> , 2014 , 30, 503-519	1.3	20
13	The productivity, metabolism and carbon cycle of two lowland tropical forest plots in south-western Amazonia, Peru. <i>Plant Ecology and Diversity</i> , 2014 , 7, 85-105	2.2	73
12	The relationship of tropical bird communities to tree species composition and vegetation structure along an Andean elevational gradient. <i>Journal of Biogeography</i> , 2013 , 40, 950-962	4.1	105
11	Simulating forest productivity along a neotropical elevational transect: temperature variation and carbon use efficiency. <i>Global Change Biology</i> , 2012 , 18, 2882-98	11.4	30
10	Implications of fires on carbon budgets in Andean cloud montane forest: The importance of peat soils and tree resprouting. <i>Forest Ecology and Management</i> , 2011 , 261, 1987-1997	3.9	38
9	Upslope migration of Andean trees. <i>Journal of Biogeography</i> , 2011 , 38, 783-791	4.1	225
8	The sensitivity of tropical leaf litter decomposition to temperature: results from a large-scale leaf translocation experiment along an elevation gradient in Peruvian forests. <i>New Phytologist</i> , 2011 , 189, 967-977	9.8	124
7	Net primary productivity allocation and cycling of carbon along a tropical forest elevational transect in the Peruvian Andes. <i>Global Change Biology</i> , 2010 , 16, 3176-3192	11.4	262
6	Introduction: Elevation gradients in the tropics: laboratories for ecosystem ecology and global change research. <i>Global Change Biology</i> , 2010 , 16, 3171-3175	11.4	189
5	Above- and below-ground net primary productivity across ten Amazonian forests on contrasting soils. <i>Biogeosciences</i> , 2009 , 6, 2759-2778	4.6	182
4	Soil microbial nutrient constraints along a tropical forest elevation gradient: a belowground test of a biogeochemical paradigm		9
3	Above- and below-ground net primary productivity across ten Amazonian forests on contrasting soils		37
2	Evolutionary heritage shapes tree distributions along an Amazon-to-Andes elevation gradient		1
1	Microbes follow Humboldt: temperature drives plant and soil microbial diversity patterns from the Amazon to the Andes		4