JÃ¼rgen Homeier

List of Publications by Year
in descending order

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99 papers	5,618 citations	81900 39 h-index	85541 71 g-index
110 all docs	110 docs citations	110 times ranked	9237 citing authors

#	Article	IF	Citations
1	Mapping tree density at a global scale. Nature, 2015, 525, 201-205.	27.8	642
2	Global traitâ€“environment relationships of plant communities. Nature Ecology and Evolution, 2018, 2, 1906-1917.	7.8	397
3	An estimate of the number of tropical tree species. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7472-7477.	7.1	335
4	Tree Diversity, Forest Structure and Productivity along Altitudinal and Topographical Gradients in a Speciesâ€Rich Ecuadorian Montane Rain Forest. Biotropica, 2010, 42, 140-148.	1.6	265
5	Nitrogen and phosphorus additions impact arbuscular mycorrhizal abundance and molecular diversity in a tropical montane forest. Global Change Biology, 2014, 20, 3646-3659.	9.5	194
6	Global warming, elevational ranges and the vulnerability of tropical biota. Biological Conservation, 2011, 144, 548-557.	4.1	185
7	sPlot â€“ A new tool for global vegetation analyses. Journal of Vegetation Science, 2019, 30, 161-186.	2.2	185
8	Widespread but heterogeneous responses of Andean forests to climate change. Nature, 2018, 564, 207-212.	27.8	184
9	Phylogenetic classification of the worldâ€™s tropical forests. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1837-1842.	7.1	144
10	Deforestation and Forest Fragmentation in South Ecuador since the 1970s â€“ Losing a Hotspot of Biodiversity. PLoS ONE, 2015, 10, e0133701.	2.5	142
11	SoilTemp: A global database of nearâ€surface temperature. Global Change Biology, 2020, 26, 6616-6629.	9.5	122
12	Global maps of soil temperature. Global Change Biology, 2022, 28, 3110-3144.	9.5	113
13	Tropical Andean Forests Are Highly Susceptible to Nutrient Inputsâ€”Rapid Effects of Experimental N and P Addition to an Ecuadorian Montane Forest. PLoS ONE, 2012, 7, e47128.	2.5	111
14	Climate seasonality limits leaf carbon assimilation and wood productivity in tropical forests. Biogeosciences, 2016, 13, 2537-2562.	3.3	108
15	Nitrogen availability links forest productivity, soil nitrous oxide and nitric oxide fluxes of a tropical montane forest in southern Ecuador. Global Biogeochemical Cycles, 2011, 25, n/a-n/a.	4.9	98
16	Seasonality of weather and tree phenology in a tropical evergreen mountain rain forest. International Journal of Biometeorology, 2006, 50, 370-384.	3.0	93
17	Russulaceae and Thelephoraceae form ectomycorrhizas with members of the Nyctaginaceae (Caryophyllales) in the tropical mountain rain forest of southern Ecuador. New Phytologist, 2005, 165, 923-936.	7.3	89
18	Is tropical montane forest heterogeneity promoted by a resourceâ€driven feedback cycle? Evidence from nutrient relations, herbivory and litter decomposition along a topographical gradient. Functional Ecology, 2015, 29, 430-440.	3.6	86

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19	Beta diversity of geometrid moths (Lepidoptera: Geometridae) in an Andean montane rainforest. Diversity and Distributions, 2003, 9, 351-366.	4.1	84
20	Panâ€tropical prediction of forest structure from the largest trees. Global Ecology and Biogeography, 2018, 27, 1366-1383.	5.8	78
21	Soil properties and tree growth along an altitudinal transect in Ecuadorian tropical montane forest. Journal of Plant Nutrition and Soil Science, 2008, 171, 220-230.	1.9	75
22	Effects of soil chemistry on tropical forest biomass and productivity at different elevations in the equatorial Andes. Oecologia, 2012, 170, 263-274.	2.0	70
23	Bryophyte cover on trees as proxy for air humidity in the tropics. Ecological Indicators, 2012, 20, 277-281.	6.3	66
24	Diversity patterns of ferns along elevational gradients in Andean tropical forests. Plant Ecology and Diversity, 2015, 8, 13-24.	2.4	65
25	Opposing effects of nitrogen versus phosphorus additions on mycorrhizal fungal abundance along an elevational gradient in tropical montane forests. Soil Biology and Biochemistry, 2016, 94, 37-47.	8.8	61
26	Landâ€cover classification in the Andes of southern Ecuador using Landsat ETM+ data as a basis for SVAT modelling. International Journal of Remote Sensing, 2009, 30, 1867-1886.	2.9	55
27	Thermal structure of a megadiverse Andean mountain ecosystem in southern Ecuador and its regionalization. Erdkunde, 2009, 63, 321-335.	0.8	55
28	Elevation and latitude drives structure and tree species composition in Andean forests: Results from a large-scale plot network. PLoS ONE, 2020, 15, e0231553.	2.5	54
29	Variability of indices of macronutrient availability in soils at different spatial scales along an elevation transect in tropical moist forests (NE Ecuador). Plant and Soil, 2010, 336, 443-458.	3.7	53
30	Arbuscular endomycorrhizas are dominant in the organic soil of a neotropical montane cloud forest. Journal of Tropical Ecology, 2004, 20, 125-129.	1.1	52
31	Spatio-temporal analysis of the human footprint in South Ecuador: Influence of human pressure on ecosystems and effectiveness of protected areas. Applied Geography, 2017, 78, 22-32.	3.7	51
32	Functional traits determine tree growth and ecosystem productivity of a tropical montane forest: Insights from a longâ€term nutrient manipulation experiment. Global Change Biology, 2018, 24, 399-409.	9.5	51
33	sPlotOpen â€“ An environmentally balanced, openâ€access, global dataset of vegetation plots. Global Ecology and Biogeography, 2021, 30, 1740-1764.	5.8	49
34	Epiphytic biomass of a tropical montane forest varies with topography. Journal of Tropical Ecology, 2012, 28, 23-31.	1.1	48
35	Response of the N and P cycles of an old-growth montane forest in Ecuador to experimental low-level N and P amendments. Forest Ecology and Management, 2010, 260, 1434-1445.	3.2	46
36	Caterpillars and Host Plant Records for 59 Species of Geometridae (Lepidoptera) from a Montane Rainforest in Southern Ecuador. Journal of Insect Science, 2010, 10, 1-22.	1.5	43

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37	Trapping pollen in the tropics â€" Comparing modern pollen rain spectra of different pollen traps and surface samples across Andean vegetation zones. Review of Palaeobotany and Palynology, 2013, 193, 57-69.	1.5	42
38	Graffenrieda emarginata (Melastomataceae) forms mycorrhizas with Glomeromycota and with a member of the Hymenoscyphus ericae aggregate in the organic soil of a neotropical mountain rain forest. Canadian Journal of Botany, 2004, 82, 340-356.	1.1	41
39	Coarse woody debris in a montane forest in Ecuador: mass, C and nutrient stock, and turnover. Forest Ecology and Management, 2005, 205, 139-147.	3.2	41
40	Research Priorities for the Conservation and Sustainable Governance of Andean Forest Landscapes. Mountain Research and Development, 2017, 37, 323.	1.0	41
41	Modeling tropical montane forest biomass, productivity and canopy traits with multispectral remote sensing data. Remote Sensing of Environment, 2019, 225, 77-92.	11.0	39
42	Large-Scale Patterns of Turnover and Basal Area Change in Andean Forests. PLoS ONE, 2015, 10, e0126594.	2.5	38
43	Factors controlling the abundance of lianas along an altitudinal transect of tropical forests in Ecuador. Forest Ecology and Management, 2010, 259, 1399-1405.	3.2	37
44	Accounting for multiple ecosystem services in a simulation of landâ€use decisions: Does it reduce tropical deforestation?. Global Change Biology, 2020, 26, 2403-2420.	9.5	37
45	Species richnessâ€"productivity relationships of tropical terrestrial ferns at regional and local scales. Journal of Ecology, 2014, 102, 1623-1633.	4.0	33
46	Representativeness of tree diversity in the modern pollen rain of <scp>A</scp>ndean montane forests. Journal of Vegetation Science, 2014, 25, 481-490.	2.2	32
47	Simulating forest dynamics of a tropical montane forest in South Ecuador. Erdkunde, 2009, 63, 347-364.	0.8	32
48	Remote sensing improves prediction of tropical montane species diversity but performance differs among taxa. Ecological Indicators, 2017, 83, 538-549.	6.3	31
49	Topography as a factor driving smallâ€scale variation in tree fine root traits and root functional diversity in a speciesâ€rich tropical montane forest. New Phytologist, 2021, 230, 129-138.	7.3	28
50	The Carbon Balance of Tropical Mountain Forests Along an Altitudinal Transect. Ecological Studies, 2013, , 117-139.	1.2	28
51	Contrasting species responses to continued nitrogen and phosphorus addition in tropical montane forest tree seedlings. Biotropica, 2018, 50, 234-245.	1.6	27
52	Moderate phosphorus additions consistently affect community composition of arbuscular mycorrhizal fungi in tropical montane forests in southern Ecuador. New Phytologist, 2020, 227, 1505-1518.	7.3	27
53	Estimation of Above Ground Biomass in a Tropical Mountain Forest in Southern Ecuador Using Airborne LiDAR Data. Remote Sensing, 2018, 10, 660.	4.0	26
54	Mature Andean forests as globally important carbon sinks and future carbon refuges. Nature Communications, 2021, 12, 2138.	12.8	26

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55	Elevationâ€dependent effects of forest fragmentation on plantâ€“bird interaction networks in the tropical Andes. Ecography, 2018, 41, 1497-1506.	4.5	25
56	The carbon fluxes in different successional stages: modelling the dynamics of tropical montane forests in South Ecuador. Forest Ecosystems, 2017, 4, .	3.1	23
57	Altitudinal Change in the Photosynthetic Capacity of Tropical Trees: A Case Study from Ecuador and a Pantropical Literature Analysis. Ecosystems, 2012, 15, 958-973.	3.4	22
58	Elevation and topography influence community structure, biomass and host tree interactions of lianas in tropical montane forests of southern Ecuador. Journal of Vegetation Science, 2016, 27, 958-968.	2.2	21
59	Effects of flooding on trees in the semi-deciduous transition forests of the Araguaia floodplain, Brazil. Acta Oecologica, 2015, 69, 21-30.	1.1	20
60	Leaf trait variation in species-rich tropical Andean forests. Scientific Reports, 2021, 11, 9993.	3.3	20
61	Nutrient cycling drives plant community trait assembly and ecosystem functioning in a tropical mountain biodiversity hotspot. New Phytologist, 2021, 232, 551-566.	7.3	20
62	Impact of mycorrhization on the abundance, growth and leaf nutrient status of ferns along a tropical elevational gradient. Oecologia, 2014, 175, 887-900.	2.0	18
63	Factors controlling the productivity of tropical Andean forests: climate and soil are more important than tree diversity. Biogeosciences, 2021, 18, 1525-1541.	3.3	18
64	Effects of Nutrient Addition on the Productivity of Montane Forests and Implications for the Carbon Cycle. Ecological Studies, 2013, , 315-329.	1.2	18
65	Mycorrhiza Networks Promote Biodiversity and Stabilize the Tropical Mountain Rain Forest Ecosystem: Perspectives for Understanding Complex Communities. Ecological Studies, 2013, , 187-203.	1.2	16
66	Nutrient enrichment effects on mycorrhizal fungi in an Andean tropical montane Forest. Mycorrhiza, 2017, 27, 311-319.	2.8	16
67	Nutrient-Induced Modifications of Wood Anatomical Traits of Alchornea lojaensis (Euphorbiaceae). Frontiers in Earth Science, 2016, 4, .	1.8	15
68	Direct and indirect effects of plant and frugivore diversity on structural and functional components of fruit removal by birds. Oecologia, 2019, 189, 435-445.	2.0	15
69	Functional responses of avian frugivores to variation in fruit resources between natural and fragmented forests. Functional Ecology, 2019, 33, 399-410.	3.6	14
70	A research framework for projecting ecosystem change in highly diverse tropical mountain ecosystems. Oecologia, 2021, 195, 589-600.	2.0	12
71	Biodiversity and ecosystem functions depend on environmental conditions and resources rather than the geodiversity of a tropical biodiversity hotspot. Scientific Reports, 2021, 11, 24530.	3.3	12
72	Short-term response of the Ca cycle of a montane forest in Ecuador to low experimental CaCl2 additions. Journal of Plant Nutrition and Soil Science, 2013, 176, 892-903.	1.9	11

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73	Changes in tree functional composition across topographic gradients and through time in a tropical montane forest. PLoS ONE, 2022, 17, e0263508.	2.5	11
74	Performance of Seedlings of a Shade-Tolerant Tropical Tree Species after Moderate Addition of N and P. Frontiers in Earth Science, 2015, 3, .	1.8	10
75	Increases in Soil Aggregation Following Phosphorus Additions in a Tropical Premontane Forest are Not Driven by Root and Arbuscular Mycorrhizal Fungal Abundances. Frontiers in Earth Science, 2016, 3, .	1.8	9
76	Ammonium, nitrate and glycine uptake of six Ecuadorian tropical montane forest tree species: anin situpot experiment with saplings. Journal of Tropical Ecology, 2015, 31, 139-152.	1.1	8
77	Editorial: Tropical Forest Ecosystem Responses to Increasing Nutrient Availability. Frontiers in Earth Science, 2017, 5, .	1.8	8
78	Stand dynamics of the drought-affected floodplain forests of Araguaia River, Brazilian Amazon. Forest Ecosystems, 2017, 4, .	3.1	8
79	Plant Diversity and Its Relevance for the Provision of Ecosystem Services. Ecological Studies, 2013, , 93-106.	1.2	8
80	Elevational trends of tree fine root traits in speciesâ€rich tropical Andean forests. Oikos, 2023, 2023, .	2.7	8
81	Phylogenetic niche conservatism does not explain elevational patterns of species richness, phylodiversity and family age of tree assemblages in Andean rainforest. Erdkunde, 2015, 70, 83-106.	0.8	6
82	Litter decomposition rates across tropical montane and lowland forests are controlled foremost by climate. Biotropica, 2022, 54, 309-326.	1.6	6
83	Hydrogenotrophic methanogenesis is the dominant methanogenic pathway in neotropical tank bromeliad wetlands. Environmental Microbiology Reports, 2018, 10, 33-39.	2.4	4
84	Klimawandel und Vegetation - Eine globale Ãœbersicht. , 2019, , .		4
85	Response of water-bound fluxes of potassium, calcium, magnesium and sodium to nutrient additions in an Ecuadorian tropical montane forest. Forest Ecology and Management, 2021, 501, 119661.	3.2	4
86	Nutrient Additions Affecting Matter Turnover in Forest and Pasture Ecosystems. Ecological Studies, 2013, , 297-313.	1.2	3
87	Classification of Tree Functional Types in a Megadiverse Tropical Mountain Forest from Leaf Optical Metrics and Functional Traits for Two Related Ecosystem Functions. Forests, 2021, 12, 649.	2.1	2
88	Three new species of South American <I>Moraceae</I>. Blumea: Journal of Plant Taxonomy and Plant Geography, 2010, 55, 196-200.	0.2	1
89	Influence of Increasing Nutrient Availability on Fern and Lycophyte Diversity. American Fern Journal, 2022, 112, .	0.3	1
90	Spatial heterogeneity of throughfall quantity and quality in tropical montane forests in southern Ecuador. , 0, , 393-401.		0

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91	Ecuador Forest Plots Database. Biodiversity and Ecology = Biodiversitat Und Okologie, 2012, 4, 446-446.	0.3	0
92	Savannen und TrockenwÃlder. , 2019, , 287-308.		0
93	Tundren und polare WÃ¼sten. , 2019, , 43-116.		0
94	WÃ¼sten und HalbwÃ¼sten. , 2019, , 309-321.		0
95	Globaler Klimawandel: die Grundlagen. , 2019, , 1-36.		0
96	Boreale WÃlder und Moorgebiete. , 2019, , 117-181.		0
97	Tropische WÃlder und Gebirge. , 2019, , 323-358.		0
98	Physiologische Anpassung und Migration als Antworten auf den Klimawandel. , 2019, , 37-41.		0
99	A plot-based elevational assessment of species densities, life forms and leaf traits of seed plants in the south-eastern Himalayan biodiversity hotspot, North Myanmar. Plant Ecology and Diversity, 2020, 13, 437-450.	2.4	0