

Bart J Kruijt

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

7,123
citations

94433

37
h-index

82547

72
g-index

101
all docs

101
docs citations

101
times ranked

9391
citing authors

#	ARTICLE	IF	CITATIONS
1	Changes in leaf functional traits with leaf age: when do leaves decrease their photosynthetic capacity in Amazonian trees?. <i>Tree Physiology</i> , 2022, 42, 922-938.	3.1	14
2	Tropical tree growth driven by dry-season climate variability. <i>Nature Geoscience</i> , 2022, 15, 269-276.	12.9	38
3	Drought resilience of conifer species is driven by leaf lifespan but not by hydraulic traits. <i>New Phytologist</i> , 2022, 235, 978-992.	7.3	17
4	Method comparison of indirect assessments of understory leaf area index (LAI): A case study across the extended network of ICOS forest ecosystem sites in Europe. <i>Ecological Indicators</i> , 2021, 128, 107841.	6.3	12
5	Retrieval and validation of forest background reflectivity from daily Moderate Resolution Imaging Spectroradiometer (MODIS) bidirectional reflectance distribution function (BRDF) data across European forests. <i>Biogeosciences</i> , 2021, 18, 621-635.	3.3	12
6	ForestTemp – Sub-canopy microclimate temperatures of European forests. <i>Global Change Biology</i> , 2021, 27, 6307-6319.	9.5	57
7	Evapotranspiration and gross primary productivity of secondary vegetation in Amazonia inferred by eddy covariance. <i>Agricultural and Forest Meteorology</i> , 2020, 294, 108141.	4.8	14
8	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020, 7, 225.	5.3	646
9	Altered energy partitioning across terrestrial ecosystems in the European drought year 2018. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190524.	4.0	35
10	Carbon–nitrogen interactions in European forests and semi-natural vegetation – Part 1: Fluxes and budgets of carbon, nitrogen and greenhouse gases from ecosystem monitoring and modelling. <i>Biogeosciences</i> , 2020, 17, 1583-1620.	3.3	21
11	Response of the river discharge in the Tocantins River Basin, Brazil, to environmental changes and the associated effects on the energy potential. <i>Regional Environmental Change</i> , 2019, 19, 193-204.	2.9	21
12	Amazon forest response to CO ₂ fertilization dependent on plant phosphorus acquisition. <i>Nature Geoscience</i> , 2019, 12, 736-741.	12.9	177
13	Modelling the response of net primary productivity of the Zambezi teak forests to climate change along a rainfall gradient in Zambia. <i>Biogeosciences</i> , 2019, 16, 3853-3867.	3.3	3
14	Performance of Laser-Based Electronic Devices for Structural Analysis of Amazonian Terra-Firme Forests. <i>Remote Sensing</i> , 2019, 11, 510.	4.0	7
15	Below and above-ground carbon distribution along a rainfall gradient. A case of the Zambezi teak forests, Zambia. <i>Acta Oecologica</i> , 2018, 87, 45-57.	1.1	7
16	Data for developing allometric models and evaluating carbon stocks of the Zambezi Teak Forests in Zambia. <i>Data in Brief</i> , 2018, 17, 1361-1373.	1.0	2
17	Recent progress in understanding climate thresholds. <i>Progress in Physical Geography</i> , 2018, 42, 24-60.	3.2	18
18	Flood tolerance in two tree species that inhabit both the Amazonian floodplain and the dry Cerrado savanna of Brazil. <i>AoB PLANTS</i> , 2018, 10, ply065.	2.3	11

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19	Limiting the high impacts of Amazon forest dieback with no-regrets science and policy action. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11671-11679.	7.1	38
20	Widespread reduction in sun-induced fluorescence from the Amazon during the 2015/2016 El Niño. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170408.	4.0	57
21	Prediction of photosynthesis in Scots pine ecosystems across Europe by a needle-level theory. Atmospheric Chemistry and Physics, 2018, 18, 13321-13328.	4.9	0
22	Quantifying the effect of forest age in annual net forest carbon balance. Environmental Research Letters, 2018, 13, 124018.	5.2	67
23	The dendrochronological potential of <i>Baikiaea plurijuga</i> in Zambia. Dendrochronologia, 2017, 41, 65-77.	2.2	10
24	Impacts of future deforestation and climate change on the hydrology of the Amazon Basin: a multi-model analysis with a new set of land-cover change scenarios. Hydrology and Earth System Sciences, 2017, 21, 1455-1475.	4.9	69
25	Canopy-scale biophysical controls of transpiration and evaporation in the Amazon Basin. Hydrology and Earth System Sciences, 2016, 20, 4237-4264.	4.9	62
26	Linking hydraulic traits to tropical forest function in a size-structured and trait-driven model (TFSAv.1-Hydro). Geoscientific Model Development, 2016, 9, 4227-4255.	3.6	211
27	Modelling Amazonian Carbon Budgets and Vegetation Dynamics in a Changing Climate. Ecological Studies, 2016, , 331-366.	1.2	3
28	Variation in stem mortality rates determines patterns of above-ground biomass in Amazonian forests: implications for dynamic global vegetation models. Global Change Biology, 2016, 22, 3996-4013.	9.5	116
29	After more than a decade of soil moisture deficit, tropical rainforest trees maintain photosynthetic capacity, despite increased leaf respiration. Global Change Biology, 2015, 21, 4662-4672.	9.5	67
30	Modelling short-term variability in carbon and water exchange in a temperate Scots pine forest. Earth System Dynamics, 2015, 6, 485-503.	7.1	8
31	The sensitivity of wet and dry tropical forests to climate change in Bolivia. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 399-413.	3.0	22
32	Soil CO ₂ exchange in seven pristine Amazonian rain forest sites in relation to soil temperature. Agricultural and Forest Meteorology, 2014, 192-193, 96-107.	4.8	16
33	Modeling forest dynamics along climate gradients in Bolivia. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 758-775.	3.0	24
34	Mechanisms of water supply and vegetation demand govern the seasonality and magnitude of evapotranspiration in Amazonia and Cerrado. Agricultural and Forest Meteorology, 2014, 191, 33-50.	4.8	105
35	The use of radiocarbon to constrain current and future soil organic matter turnover and transport in a temperate forest. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 372-391.	3.0	26
36	What drives the seasonality of photosynthesis across the Amazon basin? A cross-site analysis of eddy flux tower measurements from the Brasil flux network. Agricultural and Forest Meteorology, 2013, 182-183, 128-144.	4.8	255

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37	Modeling the vertical soil organic matter profile using Bayesian parameter estimation. <i>Biogeosciences</i> , 2013, 10, 399-420.	3.3	50
38	Evapotranspiration of deforested areas in central and southwestern Amazonia. <i>Theoretical and Applied Climatology</i> , 2012, 109, 205-220.	2.8	25
39	Soil CO ₂ efflux in central Amazonia: environmental and methodological effects. <i>Acta Amazonica</i> , 2012, 42, 173-184.	0.7	10
40	Drought and ecosystem carbon cycling. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 765-773.	4.8	446
41	Assessing the uncertainty of estimated annual totals of net ecosystem productivity: A practical approach applied to a mid latitude temperate pine forest. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 1823-1830.	4.8	43
42	SOMPROF: A vertically explicit soil organic matter model. <i>Ecological Modelling</i> , 2011, 222, 1712-1730.	2.5	75
43	Influence of drainage status on soil and water chemistry, litter decomposition and soil respiration in central Amazonian forests on sandy soils. <i>Revista Ambiente & Água</i> , 2011, 6, 6-29.	0.3	18
44	Variability in carbon exchange of European croplands. <i>Agriculture, Ecosystems and Environment</i> , 2010, 139, 325-335.	5.3	71
45	Carbon exchange of a maize (<i>Zea mays</i> L.) crop: Influence of phenology. <i>Agriculture, Ecosystems and Environment</i> , 2010, 139, 316-324.	5.3	66
46	The spatial variability of CO ₂ storage and the interpretation of eddy covariance fluxes in central Amazonia. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 226-237.	4.8	42
47	Estimativa do Índice de Área Foliar (IAF) e Biomassa em pastagem no estado de Rondônia, Brasil. <i>Acta Amazonica</i> , 2009, 39, 335-347.	0.7	24
48	Changes in Amazonian forest biomass, dynamics, and composition, 1980–2002. <i>Geophysical Monograph Series</i> , 2009, , 373-387.	0.1	16
49	Patterns of water and heat flux across a biome gradient from tropical forest to savanna in Brazil. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	220
50	Ecosystem carbon fluxes and Amazonian forest metabolism. <i>Geophysical Monograph Series</i> , 2009, , 389-407.	0.1	18
51	Effects of rising atmospheric CO ₂ on evapotranspiration and soil moisture: A practical approach for the Netherlands. <i>Journal of Hydrology</i> , 2008, 349, 257-267.	5.4	98
52	Statistical properties of random CO ₂ flux measurement uncertainty inferred from model residuals. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 38-50.	4.8	128
53	Exploring eddy-covariance and large-aperture scintillometer measurements in an Amazonian rain forest. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 680-690.	4.8	48
54	NOCTURNAL ACCUMULATION OF CO ₂ UNDERNEATH A TROPICAL FOREST CANOPY ALONG A TOPOGRAPHICAL GRADIENT. <i>Ecological Applications</i> , 2008, 18, 1406-1419.	3.8	46

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55	Implications of CO ₂ pooling on \dot{V} ₁₃ C of ecosystem respiration and leaves in Amazonian forest. <i>Biogeosciences</i> , 2008, 5, 779-795.	3.3	7
56	Isoprene and monoterpene fluxes from Central Amazonian rainforest inferred from tower-based and airborne measurements, and implications on the atmospheric chemistry and the local carbon budget. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 2855-2879.	4.9	181
57	An airborne regional carbon balance for Central Amazonia. <i>Biogeosciences</i> , 2007, 4, 759-768.	3.3	40
58	CO ₂ balance of boreal, temperate, and tropical forests derived from a global database. <i>Global Change Biology</i> , 2007, 13, 2509-2537.	9.5	863
59	Low-frequency modulation of the atmospheric surface layer over Amazonian rain forest and its implication for similarity relationships. <i>Agricultural and Forest Meteorology</i> , 2006, 141, 192-207.	4.8	27
60	ECOLOGICAL RESEARCH IN THE LARGE-SCALE BIOSPHERE " ATMOSPHERE EXPERIMENT IN AMAZONIA: EARLY RESULTS. , 2004, 14, 3-16.		130
61	RESPIRATION FROM A TROPICAL FOREST ECOSYSTEM: PARTITIONING OF SOURCES AND LOW CARBON USE EFFICIENCY. , 2004, 14, 72-88.		344
62	Variation of carbon and nitrogen cycling processes along a topographic gradient in a central Amazonian forest. <i>Global Change Biology</i> , 2004, 10, 592-600.	9.5	200
63	Comparative measurements and seasonal variations in energy and carbon exchange over forest and pasture in South West Amazonia. <i>Theoretical and Applied Climatology</i> , 2004, 78, 5.	2.8	277
64	Efeitos de um evento de friagem nas condiçōes meteorol³gicas na Amaz³nia: um estudo de caso. <i>Acta Amazonica</i> , 2004, 34, 613-619.	0.7	12
65	Scale variability of atmospheric surface layer fluxes of energy and carbon over a tropical rain forest in southwest Amazonia 1. Diurnal conditions. <i>Journal of Geophysical Research</i> , 2002, 107, LBA 29-1.	3.3	45
66	Acclimation of photosynthetic capacity to irradiance in tree canopies in relation to leaf nitrogen concentration and leaf mass per unit area. <i>Plant, Cell and Environment</i> , 2002, 25, 343-357.	5.7	305
67	Turbulence Statistics Above And Within Two Amazon Rain Forest Canopies. <i>Boundary-Layer Meteorology</i> , 2000, 94, 297-331.	2.3	138
68	Acclimation of photosynthesis to light: a mechanistic approach. <i>Functional Ecology</i> , 1999, 13, 24-36.	3.6	69
69	Light distribution and foliage structure in an oak canopy. <i>Trees - Structure and Function</i> , 1999, 14, 55.	1.9	94
70	Leaf photosynthetic light response: a mechanistic model for scaling photosynthesis to leaves and canopies. <i>Functional Ecology</i> , 1998, 12, 767-777.	3.6	102
71	Carbon dioxide transfer over a Central Amazonian rain forest. <i>Journal of Geophysical Research</i> , 1998, 103, 31593-31612.	3.3	366
72	Forest edges and the soil-vegetation- atmosphere interaction at the landscape scale: the state of affairs. <i>Progress in Physical Geography</i> , 1996, 20, 292-310.	3.2	25

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73	Vegetation Effects on the Isotopic Composition of Atmospheric CO ₂ at Local and Regional Scales: Theoretical Aspects and a Comparison Between Rain Forest in Amazonia and a Boreal Forest in Siberia. <i>Functional Plant Biology</i> , 1996, 23, 371.	2.1	118
74	Estimating Canopy Structure of an Oak Forest at Several Scales. <i>Forestry</i> , 1989, 62, 269-284.	2.3	14