

# Arnoud Boom

## List of Publications by Year in descending order

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67  
papers

3,483  
citations

172457

29  
h-index

149698

56  
g-index

69  
all docs

69  
docs citations

69  
times ranked

6815  
citing authors

#	ARTICLE	IF	CITATIONS
1	TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
2	No growth stimulation of tropical trees by 150 years of CO <sub>2</sub> fertilization but water-use efficiency increased. <i>Nature Geoscience</i> , 2015, 8, 24-28.	12.9	348
3	CO <sub>2</sub> - and temperature-controlled altitudinal shifts of C <sub>4</sub> - and C <sub>3</sub> -dominated grasslands allow reconstruction of palaeoatmospheric pCO <sub>2</sub> . <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2002, 177, 151-168.	2.3	100
4	Leaf wax n-alkane distributions in arid zone South African flora: Environmental controls, chemotaxonomy and palaeoecological implications. <i>Organic Geochemistry</i> , 2014, 67, 72-84.	1.8	98
5	Tree height strongly affects estimates of water-use efficiency responses to climate and CO <sub>2</sub> using isotopes. <i>Nature Communications</i> , 2017, 8, 288.	12.8	97
6	Rock hyrax middens: A palaeoenvironmental archive for southern African drylands. <i>Quaternary Science Reviews</i> , 2012, 56, 107-125.	3.0	92
7	Stable carbon isotopes in freshwater mussel shells: Environmental record or marker for metabolic activity?. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 3545-3554.	3.9	89
8	Cutan, a common aliphatic biopolymer in cuticles of drought-adapted plants. <i>Organic Geochemistry</i> , 2005, 36, 595-601.	1.8	87
9	Influence of tropical easterlies in southern Africa's winter rainfall zone during the Holocene. <i>Quaternary Science Reviews</i> , 2015, 107, 138-148.	3.0	79
10	High altitude C <sub>4</sub> grasslands in the northern Andes: relicts from glacial conditions?. <i>Review of Palaeobotany and Palynology</i> , 2001, 115, 147-160.	1.5	71
11	Holocene climate change in southernmost South Africa: rock hyrax middens record shifts in the southern westerlies. <i>Quaternary Science Reviews</i> , 2013, 82, 199-205.	3.0	66
12	The dynamic relationship between temperate and tropical circulation systems across South Africa since the last glacial maximum. <i>Quaternary Science Reviews</i> , 2017, 174, 54-62.	3.0	61
13	On the <sup>13</sup> C/ <sup>12</sup> C isotopic signal of day and night respiration at the mesocosm level. <i>Plant, Cell and Environment</i> , 2010, 33, 900-913.	5.7	56
14	Neotropical <sup>3</sup> C/ <sup>4</sup> C grass distributions – present, past and future. <i>Global Change Biology</i> , 2012, 18, 2324-2334.	9.5	56
15	Studies towards the synthesis of (+)-ptilomycin A; Stereoselective N-acyliminium ion coupling reactions to enantiopure C-2 substituted lactams. <i>Tetrahedron</i> , 1996, 52, 2603-2628.	1.9	55
16	Evolving southwest African response to abrupt deglacial North Atlantic climate change events. <i>Quaternary Science Reviews</i> , 2015, 121, 132-136.	3.0	52
17	Improving estimates of tropical peatland area, carbon storage, and greenhouse gas fluxes. <i>Wetlands Ecology and Management</i> , 2015, 23, 327-346.	1.5	51
18	Quality not quantity: Organic matter composition controls of CO <sub>2</sub> and CH <sub>4</sub> fluxes in neotropical peat profiles. <i>Soil Biology and Biochemistry</i> , 2016, 103, 86-96.	8.8	47

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19	Climatic controls on Later Stone Age human adaptation in Africa's southern Cape. <i>Journal of Human Evolution</i> , 2018, 114, 35-44.	2.6	47
20	Getting to the root of the problem: litter decomposition and peat formation in lowland Neotropical peatlands. <i>Biogeochemistry</i> , 2015, 126, 115-129.	3.5	41
21	Holocene sea level and environmental change on the west coast of South Africa: evidence from plant biomarkers, stable isotopes and pollen. <i>Journal of Paleolimnology</i> , 2015, 53, 415-432.	1.6	37
22	Hydrogen isotope fractionation of leaf wax n-alkanes in southern African soils. <i>Organic Geochemistry</i> , 2017, 109, 1-13.	1.8	37
23	Pollen-based biome reconstructions for the past 450,000 yr from the Funza-2 core, Colombia: comparisons with model-based vegetation reconstructions. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2002, 177, 29-45.	2.3	36
24	Molecular fingerprinting of wetland organic matter using pyrolysis-GC/MS: an example from the southern Cape coastline of South Africa. <i>Journal of Paleolimnology</i> , 2010, 44, 947-961.	1.6	36
25	Developing forensic tools for an African timber: Regional origin is revealed by genetic characteristics, but not by isotopic signature. <i>Biological Conservation</i> , 2018, 220, 262-271.	4.1	36
26	The potential of plant biomarker evidence derived from rock hyrax middens as an indicator of palaeoenvironmental change. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2010, 285, 321-330.	2.3	35
27	Seasonal variability in methane and nitrous oxide fluxes from tropical peatlands in the western Amazon basin. <i>Biogeosciences</i> , 2017, 14, 3669-3683.	3.3	35
28	Biome-scale characterisation and differentiation of semi-arid and arid zone soil organic matter compositions using pyrolysis-GC/MS analysis. <i>Geoderma</i> , 2013, 200-201, 189-201.	5.1	34
29	Colombian vegetation at the Last Glacial Maximum: a comparison of model- and pollen-based biome reconstructions. <i>Journal of Quaternary Science</i> , 2004, 19, 721-732.	2.1	31
30	The chemistry of American and African amber, copal, and resin from the genus <i>Hymenaea</i> . <i>Organic Geochemistry</i> , 2017, 113, 43-54.	1.8	31
31	Leaf wax n-alkanes and $\delta^{13}C$ values of CAM plants from arid southwest Africa. <i>Organic Geochemistry</i> , 2014, 67, 99-102.	1.8	30
32	Microbial biomarkers support organic carbon transport from methane-rich Amazon wetlands to the shelf and deep sea fan during recent and glacial climate conditions. <i>Organic Geochemistry</i> , 2014, 67, 85-98.	1.8	29
33	Evaluation of vegetation communities, water table, and peat composition as drivers of greenhouse gas emissions in lowland tropical peatlands. <i>Science of the Total Environment</i> , 2019, 688, 1193-1204.	8.0	29
34	Sources, transport and deposition of terrestrial organic material: A case study from southwestern Africa. <i>Quaternary Science Reviews</i> , 2016, 149, 215-229.	3.0	26
35	Human-environment interactions in an agricultural landscape: A 1400-yr sediment and pollen record from North Pare, NE Tanzania. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 406, 49-61.	2.3	25
36	Investigation of organic matter and biomarkers from Diepkloof Rock Shelter, South Africa: Insights into Middle Stone Age site usage and palaeoclimate. <i>Journal of Archaeological Science</i> , 2017, 85, 51-65.	2.4	25

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37	A late Pleistocene–Holocene multi-proxy record of palaeoenvironmental change from Still Bay, southern Cape Coast, South Africa. <i>Journal of Quaternary Science</i> , 2015, 30, 870-885.	2.1	23
38	Orbital controls on Namib Desert hydroclimate over the past 50,000 years. <i>Geology</i> , 2019, 47, 867-871.	4.4	23
39	A method for reconstructing temporal changes in vegetation functional trait composition using Holocene pollen assemblages. <i>PLoS ONE</i> , 2019, 14, e0216698.	2.5	22
40	Stable isotope analyses of rock hyrax faecal pellets, hyraceum and associated vegetation in southern Africa: Implications for dietary ecology and palaeoenvironmental reconstructions. <i>Journal of Arid Environments</i> , 2016, 134, 33-48.	2.4	21
41	Multi-disciplinary evidence of the Holocene history of a cultivated floodplain area in the wetlands of northern Colombia. <i>Vegetation History and Archaeobotany</i> , 2001, 10, 161-174.	2.1	19
42	Colombian dry moist forest transitions in the Llanos Orientales—A comparison of model and pollen-based biome reconstructions. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006, 234, 28-44.	2.3	19
43	Contrasting controls on tree ring isotope variation for Amazon floodplain and terra firme trees. <i>Tree Physiology</i> , 2019, 39, 845-860.	3.1	19
44	Biogeological Analysis of Desert Varnish Using Portable Raman Spectrometers. <i>Astrobiology</i> , 2015, 15, 442-452.	3.0	18
45	Extreme hydroclimate response gradients within the western Cape Floristic region of South Africa since the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2019, 219, 297-307.	3.0	17
46	NEW EVIDENCE FOR THE AGE AND PALAEOECOLOGY OF THE KNYSNA FORMATION, SOUTH AFRICA. <i>South African Journal of Geology</i> , 2010, 113, 241-256.	1.2	14
47	High-resolution record of Holocene climate change dynamics from southern Africa's temperate-tropical boundary, Baviaanskloof, South Africa. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020, 539, 109518.	2.3	14
48	Unlocking preservation bias in the amber insect fossil record through experimental decay. <i>PLoS ONE</i> , 2018, 13, e0195482.	2.5	12
49	An Optical luminescence chronology for late Pleistocene aeolian activity in the Colombian and Venezuelan Llanos. <i>Quaternary Research</i> , 2016, 85, 299-312.	1.7	11
50	Novel responses of diatoms in neotropical mountain lakes to indigenous and post-European occupation. <i>Anthropocene</i> , 2021, 34, 100294.	3.3	11
51	Questioning the Influence of Sunspots on Amazon Hydrology: Even a Broken Clock Tells the Right Time Twice a Day. <i>Geophysical Research Letters</i> , 2018, 45, 1419-1422.	4.0	10
52	Changes in functional, phylogenetic and taxonomic diversities of lowland fens under different vegetation and disturbance levels. <i>Plant Ecology</i> , 2020, 221, 441-457.	1.6	10
53	Tree-ring oxygen isotopes record a decrease in Amazon dry season rainfall over the past 40 years. <i>Climate Dynamics</i> , 2022, 59, 1401-1414.	3.8	10
54	Intra-annual oxygen isotopes in the tree rings record precipitation extremes and water reservoir levels in the Metropolitan Area of São Paulo, Brazil. <i>Science of the Total Environment</i> , 2020, 743, 140798.	8.0	9

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55	Biogeochemical Characteristics of Lacustrine Sediments Reflecting a Changing Alpine Neotropical Ecosystem during the Pleistocene. <i>Quaternary Research</i> , 2002, 58, 189-196.	1.7	8
56	On the Habitability of Desert Varnish: A Combined Study by Micro-Raman Spectroscopy, X-ray Diffraction, and Methylated Pyrolysisâ€“Gas Chromatographyâ€“Mass Spectrometry. <i>Astrobiology</i> , 2017, 17, 1123-1137.	3.0	7
57	FOSSILIZATION OF THE EOCENE â€œMONKEYHAIRâ€•LATICIFER TREE FROM GEISELTAL, GERMANY: A DEEPER UNDERSTANDING USING MICRO-CT AND PYROLYSIS GC/MS. <i>Palaios</i> , 2021, 36, 1-14.	1.3	7
58	Paired analysis of tree ring width and carbon isotopes indicates when controls on tropical tree growth change from light to water limitations. <i>Tree Physiology</i> , 2022, 42, 1131-1148.	3.1	7
59	Volatile and semi-volatile composition of Cretaceous amber. <i>Cretaceous Research</i> , 2021, 127, 104958.	1.4	6
60	Using Paleoecological Data to Define Main Vegetation Dynamics Along the Savannaâ€“Forest Ecotone in Colombia: Implications for Accurate Assessment of Human Impacts. , 2012, , 209-225.		5
61	Leaf traits interact with management and water table to modulate ecosystem properties in fen peatlands. <i>Plant and Soil</i> , 2019, 441, 331-347.	3.7	5
62	Response to the comment by B. SchÃ¶ne et al. (2006) on â€œStable carbon isotopes in freshwater mussel shells: Environmental record or marker for metabolic activity?â€• <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2662-2664.	3.9	3
63	Tropical timber tracing and stable isotopes: A response to Horacek et al.. <i>Biological Conservation</i> , 2018, 226, 335-336.	4.1	3
64	Lacustrine responses to middle and late Holocene anthropogenic activities in the northern tropical Andes. <i>Journal of Paleolimnology</i> , 2021, 65, 123-136.	1.6	3
65	Variability in soil and foliar stable carbon and nitrogen isotope compositions in the winter rainfall biomes of South Africa. <i>Journal of Arid Environments</i> , 2022, 200, 104726.	2.4	2
66	The Role of Microbial Biofilm in Removing Ammonia in Floating Treatment Wetlands. <i>Ekologia</i> , 2021, 40, 101-114.	0.8	1
67	A Stable Carbon Isotopic Record of Climatic Change from a Tropical Mountain Ecosystem in Colombia. <i>Mineralogical Magazine</i> , 1998, 62A, 189-190.	1.4	1