

Brian M Chase

List of Publications by Year in descending order

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73
papers

5,497
citations

81900

39
h-index

82547

72
g-index

75
all docs

75
docs citations

75
times ranked

5862
citing authors

#	ARTICLE	IF	CITATIONS
1	Continental-scale temperature variability during the past two millennia. <i>Nature Geoscience</i> , 2013, 6, 339-346.	12.9	954
2	Late Quaternary dynamics of southern Africa's winter rainfall zone. <i>Earth-Science Reviews</i> , 2007, 84, 103-138.	9.1	496
3	Past and future global transformation of terrestrial ecosystems under climate change. <i>Science</i> , 2018, 361, 920-923.	12.6	307
4	Catastrophic Drought in the Afro-Asian Monsoon Region During Heinrich Event 1. <i>Science</i> , 2011, 331, 1299-1302.	12.6	211
5	Coalescence and fragmentation in the late Pleistocene archaeology of southernmost Africa. <i>Journal of Human Evolution</i> , 2014, 72, 26-51.	2.6	185
6	Evaluating the use of dune sediments as a proxy for palaeo-aridity: A southern African case study. <i>Earth-Science Reviews</i> , 2009, 93, 31-45.	9.1	137
7	A record of rapid Holocene climate change preserved in hyrax middens from southwestern Africa. <i>Geology</i> , 2009, 37, 703-706.	4.4	123
8	Pollen-based climate reconstruction techniques for late Quaternary studies. <i>Earth-Science Reviews</i> , 2020, 210, 103384.	9.1	123
9	The spatial extent and dynamics of the Antarctic Cold Reversal. <i>Nature Geoscience</i> , 2016, 9, 51-55.	12.9	118
10	Southeast African records reveal a coherent shift from high- to low-latitude forcing mechanisms along the east African margin across last glacialâ€“interglacial transition. <i>Quaternary Science Reviews</i> , 2015, 125, 117-130.	3.0	112
11	South African palaeoenvironments during marine oxygen isotope stage 4: a context for the Howiesons Poort and Still Bay industries. <i>Journal of Archaeological Science</i> , 2010, 37, 1359-1366.	2.4	111
12	Evidence for progressive Holocene aridification in southern Africa recorded in Namibian hyrax middens: Implications for African Monsoon dynamics and the â€ˆâ€™African Humid Periodâ€™â€™. <i>Quaternary Research</i> , 2010, 74, 36-45.	1.7	105
13	Speciation and radiations track climate transitions since the Miocene Climatic Optimum: a case study of southern African chameleons. <i>Journal of Biogeography</i> , 2008, 35, 1402-1414.	3.0	98
14	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
15	Quantification of climate change for the last 20,000 years from Wonderkrater, South Africa: Implications for the long-term dynamics of the Intertropical Convergence Zone. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013, 386, 575-587.	2.3	94
16	Rock hyrax middens: A palaeoenvironmental archive for southern African drylands. <i>Quaternary Science Reviews</i> , 2012, 56, 107-125.	3.0	92
17	African hydroclimatic variability during the last 2000 years. <i>Quaternary Science Reviews</i> , 2016, 154, 1-22.	3.0	83
18	Temperature variability over Africa during the last 2000 years. <i>Holocene</i> , 2013, 23, 1085-1094.	1.7	81

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19	A continuous record of vegetation and climate change over the past 50,000 years in the Fujian Province of eastern subtropical China. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012, 365-366, 115-123.	2.3	79
20	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
21	Multiphase late Quaternary aeolian sediment accumulation in western South Africa: Timing and relationship to palaeoclimatic changes inferred from the marine record. <i>Quaternary International</i> , 2007, 166, 29-41.	1.5	76
22	Late glacial interhemispheric climate dynamics revealed in South African hyrax middens. <i>Geology</i> , 2011, 39, 19-22.	4.4	76
23	Mid-Holocene mean climate in the south eastern Pacific and its influence on South America. <i>Quaternary International</i> , 2012, 253, 55-66.	1.5	67
24	Determining the drivers of long-term aridity variability: a southern African case study. <i>Journal of Quaternary Science</i> , 2016, 31, 143-151.	2.1	67
25	Late Quaternary dune accumulation along the western margin of South Africa: distinguishing forcing mechanisms through the analysis of migratory dune forms. <i>Earth and Planetary Science Letters</i> , 2006, 251, 318-333.	4.4	66
26	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
27	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
28	Multiproxy record of late Quaternary climate change and Middle Stone Age human occupation at Wonderkrater, South Africa. <i>Quaternary Science Reviews</i> , 2014, 99, 42-59.	3.0	60
29	Vegetation and climate dynamics during the last glacial period in the fynbos-afrotemperate forest ecotone, southern Cape, South Africa. <i>Quaternary International</i> , 2016, 404, 136-149.	1.5	59
30	A 19.5 kyr vegetation history from the central Cederberg Mountains, South Africa: Palynological evidence from rock hyrax middens. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011, 309, 253-270.	2.3	56
31	A high resolution 15,600-year pollen and microcharcoal record from the Cederberg Mountains, South Africa. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013, 387, 6-16.	2.3	54
32	Late Quaternary palaeoenvironments of the winter-rainfall zone of southern Africa: Palynological and sedimentological evidence from the Agulhas Plain. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006, 239, 147-165.	2.3	52
33	Evolving southwest African response to abrupt deglacial North Atlantic climate change events. <i>Quaternary Science Reviews</i> , 2015, 121, 132-136.	3.0	52
34	50,000 years of vegetation and climate change in the southern Namib Desert, Pella, South Africa. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 451, 197-209.	2.3	50
35	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
36	Holocene palaeoenvironments of the Cederberg and Swartuggens mountains, Western Cape, South Africa: Pollen and stable isotope evidence from hyrax dung middens. <i>Journal of Arid Environments</i> , 2010, 74, 786-793.	2.4	46

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37	The Late-Devensian proglacial Lake Humber: new evidence from littoral deposits at Ferrybridge, Yorkshire, England. <i>Boreas</i> , 2008, 37, 195-210.	2.4	42
38	Vegetation changes during the past 40,000 years in Central China from a long fossil record. <i>Quaternary International</i> , 2013, 310, 221-226.	1.5	41
39	High-throughput sequencing of ancient plant and mammal DNA preserved in herbivore middens. <i>Quaternary Science Reviews</i> , 2012, 58, 135-145.	3.0	40
40	CREST (Climate REconstruction SofTware): a probability density function (PDF)-based quantitative climate reconstruction method. <i>Climate of the Past</i> , 2014, 10, 2081-2098.	3.4	40
41	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
42	Hydrogen isotope fractionation of leaf wax n-alkanes in southern African soils. <i>Organic Geochemistry</i> , 2017, 109, 1-13.	1.8	37
43	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
44	Qualitative assessment of PMIP3 rainfall simulations across the eastern African monsoon domains during the mid-Holocene and the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2017, 156, 107-120.	3.0	36
45	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
46	Testing the applicability of a standardized growth curve (SGC) for quartz OSL dating: Kalahari dunes, South African coastal dunes and Florida dune cordons. <i>Quaternary Geochronology</i> , 2008, 3, 137-142.	1.4	34
47	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
48	Reconstructing past upwelling intensity and the seasonal dynamics of primary productivity along the Peruvian coastline from mollusk shell stable isotopes. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	32
49	Late Pleistocene-Holocene vegetation and climate change in the Middle Kalahari, Lake Ngami, Botswana. <i>Quaternary Science Reviews</i> , 2017, 171, 199-215.	3.0	31
50	Holocene palaeoclimate and sea level fluctuation recorded from the coastal Barker Swamp, Rottnest Island, south-western Western Australia. <i>Quaternary Science Reviews</i> , 2012, 54, 40-57.	3.0	30
51	A high-resolution record of Holocene climate and vegetation dynamics from the southern Cape coast of South Africa: pollen and microcharcoal evidence from Eilandvlei. <i>Journal of Quaternary Science</i> , 2018, 33, 487-500.	2.1	29
52	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
53	Late Quaternary micromammals and the precipitation history of the southern Cape, South Africa. <i>Quaternary Research</i> , 2019, 91, 848-860.	1.7	26
54	Last Glacial Maximum dune activity in the Kalahari Desert of southern Africa: observations and simulations. <i>Quaternary Science Reviews</i> , 2009, 28, 301-307.	3.0	23

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55	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
56	Orbital controls on Namib Desert hydroclimate over the past 50,000 years. <i>Geology</i> , 2019, 47, 867-871.	4.4	23
57	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
58	Variability of ¹⁴ C reservoir age and air–sea flux of CO ₂ in the Peru–Chile upwelling region during the past 12,000 years. <i>Quaternary Research</i> , 2016, 85, 87-93.	1.7	20
59	Environmental influences on human innovation and behavioural diversity in southern Africa 92±80 thousand years ago. <i>Nature Ecology and Evolution</i> , 2022, 6, 361-369.	7.8	19
60	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
61	Mid to Late Quaternary Landscape and Environmental Dynamics in the Middle Stone Age of Southern South Africa. <i>Vertebrate Paleobiology and Paleoanthropology</i> , 2016, , 23-47.	0.5	16
62	Positive precipitation–evaporation budget from AD 460 to 1090 in the Saloum Delta (Senegal) indicated by mollusk oxygen isotopes. <i>Global and Planetary Change</i> , 2012, 98-99, 54-62.	3.5	15
63	Influence of Agulhas forcing of Holocene climate change in South Africa’s southern Cape. <i>Quaternary Research</i> , 2018, 90, 303-309.	1.7	14
64	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
65	Temperature change in subtropical southeastern Africa during the past 790,000 yr. <i>Geology</i> , 2021, 49, 71-75.	4.4	14
66	Impacts of human activities on ecosystems during the past 1300 years in Pingnan area of Fujian Province, China. <i>Quaternary International</i> , 2013, 286, 29-35.	1.5	12
67	Vegetation and climate change during the Medieval Climate Anomaly and the Little Ice Age on the southern Cape coast of South Africa: Pollen evidence from Bo Langvlei. <i>Holocene</i> , 2020, 30, 1716-1727.	1.7	12
68	Orbital forcing in southern Africa: Towards a conceptual model for predicting deep time environmental change from an incomplete proxy record. <i>Quaternary Science Reviews</i> , 2021, 265, 107050.	3.0	10
69	A 25,000 year record of climate and vegetation change from the southwestern Cape coast, South Africa. <i>Quaternary Research</i> , 0, , 1-18.	1.7	5
70	Mid-Devensian climate and landscape in England: new data from Finningley, South Yorkshire. <i>Royal Society Open Science</i> , 2019, 6, 190577.	2.4	4
71	Comment on “Burrough, S.E., Breman, E., and Dodd, C., 2012. Can phytoliths provide an insight into past vegetation of the Middle Kalahari paleolakes during the late Quaternary? <i>Journal of Arid Environments</i> 82, 156–164”. <i>Journal of Arid Environments</i> , 2013, 92, 113-116.	2.4	3
72	Late Quaternary micromammals and the precipitation history of the southern Cape, South Africa: response to comments by F. Thackeray, <i>Quaternary Research</i> 95, 154–156. <i>Quaternary Research</i> , 2020, 95, 157-159.	1.7	3

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73	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