

Jostein Bakke

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

3,247
citations

159585

30
h-index

161849

54
g-index

92
all docs

92
docs citations

92
times ranked

2916
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Rapid oceanic and atmospheric changes during the Younger Dryas cold period. <i>Nature Geoscience</i> , 2009, 2, 202-205. | 12.9 | 279 |
| 2 | Norwegian mountain glaciers in the past, present and future. <i>Global and Planetary Change</i> , 2008, 60, 10-27. | 3.5 | 213 |
| 3 | A GIS tool for automatic calculation of glacier equilibrium-line altitudes. <i>Computers and Geosciences</i> , 2015, 82, 55-62. | 4.2 | 153 |
| 4 | Holocene mean July temperature and winter precipitation in western Norway inferred from palynological and glaciological lake-sediment proxies. <i>Holocene</i> , 2005, 15, 177-189. | 1.7 | 132 |
| 5 | Utilizing physical sediment variability in glacier-fed lakes for continuous glacier reconstructions during the Holocene, northern Folgefonna, western Norway. <i>Holocene</i> , 2005, 15, 161-176. | 1.7 | 124 |
| 6 | Glacier fluctuations, equilibrium-line altitudes and palaeoclimate in Lyngen, northern Norway, during the Lateglacial and Holocene. <i>Holocene</i> , 2005, 15, 518-540. | 1.7 | 113 |
| 7 | Strength and spatial patterns of the Holocene wintertime westerlies in the NE Atlantic region. <i>Global and Planetary Change</i> , 2008, 60, 28-41. | 3.5 | 107 |
| 8 | GlaRe, a GIS tool to reconstruct the 3D surface of palaeoglaciers. <i>Computers and Geosciences</i> , 2016, 94, 77-85. | 4.2 | 107 |
| 9 | Reconstruction of former glacier equilibrium-line altitudes based on proglacial sites: an evaluation of approaches and selection of sites. <i>Quaternary Science Reviews</i> , 2003, 22, 275-287. | 3.0 | 105 |
| 10 | Arctic Holocene proxy climate database – new approaches to assessing geochronological accuracy and encoding climate variables. <i>Climate of the Past</i> , 2014, 10, 1605-1631. | 3.4 | 105 |
| 11 | Were abrupt Lateglacial and early-Holocene climatic changes in northwest Europe linked to freshwater outbursts to the North Atlantic and Arctic Oceans?. <i>Holocene</i> , 2004, 14, 299-310. | 1.7 | 95 |
| 12 | A complete record of Holocene glacier variability at Austre Okstindbreen, northern Norway: an integrated approach. <i>Quaternary Science Reviews</i> , 2010, 29, 1246-1262. | 3.0 | 92 |
| 13 | Holocene glacier history of Bj rnmbreen and climatic reconstruction in central Jotunheimen, Norway, based on proximal glaciofluvial stream-bank mires. <i>Quaternary Science Reviews</i> , 2005, 24, 67-90. | 3.0 | 83 |
| 14 | Reconstruction of glacier variability from lake sediments reveals dynamic Holocene climate in Svalbard. <i>Quaternary Science Reviews</i> , 2015, 126, 201-218. | 3.0 | 80 |
| 15 | Lateglacial and early Holocene palaeoclimatic reconstruction based on glacier fluctuations and equilibrium-line altitudes at northern Folgefonna, Hardanger, western Norway. <i>Journal of Quaternary Science</i> , 2005, 20, 179-198. | 2.1 | 79 |
| 16 | DNA from lake sediments reveals long-term ecosystem changes after a biological invasion. <i>Science Advances</i> , 2018, 4, eaar4292. | 10.3 | 73 |
| 17 | Bacterial magnetite in lake sediments: late glacial to Holocene climate and sedimentary changes in northern Norway. <i>Earth and Planetary Science Letters</i> , 2004, 223, 319-333. | 4.4 | 64 |
| 18 | Arctic Holocene glacier fluctuations reconstructed from lake sediments at Mitrahav ya, Spitsbergen. <i>Quaternary Science Reviews</i> , 2015, 109, 111-125. | 3.0 | 61 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | A multi-proxy approach to assessing isolation basin stratigraphy from the Lofoten Islands, Norway. <i>Quaternary Research</i> , 2011, 75, 288-300. | 1.7 | 56 |
| 20 | Atmospheric circulation over Europe during the Younger Dryas. <i>Science Advances</i> , 2020, 6, . | 10.3 | 55 |
| 21 | Holocene palaeoclimate reconstructions at Vanndalsvatnet, western Norway, with particular reference to the 8200 cal. yr BP event. <i>Holocene</i> , 2006, 16, 717-729. | 1.7 | 50 |
| 22 | Comment on "Glacial Survival of Boreal Trees in Northern Scandinavia". <i>Science</i> , 2012, 338, 742-742. | 12.6 | 47 |
| 23 | A continuous, high-resolution 8500-yr snow-avalanche record from western Norway. <i>Holocene</i> , 2007, 17, 269-277. | 1.7 | 41 |
| 24 | Novel sedimentological fingerprints link shifting depositional processes to Holocene climate transitions in East Greenland. <i>Global and Planetary Change</i> , 2018, 164, 52-64. | 3.5 | 40 |
| 25 | Alkenone-based reconstructions reveal four-phase Holocene temperature evolution for High Arctic Svalbard. <i>Quaternary Science Reviews</i> , 2018, 183, 204-213. | 3.0 | 40 |
| 26 | Is there evidence for a 4.2 ka BP event in the northern North Atlantic region?. <i>Climate of the Past</i> , 2019, 15, 1665-1676. | 3.4 | 40 |
| 27 | Ultra-distal Kamchatkan ash on Arctic Svalbard: Towards hemispheric cryptotephra correlation. <i>Quaternary Science Reviews</i> , 2017, 164, 230-235. | 3.0 | 37 |
| 28 | Reconstructing Holocene glacier activity at Langfjordjøkelen, Arctic Norway, using multi-proxy fingerprinting of distal glacier-fed lake sediments. <i>Quaternary Science Reviews</i> , 2015, 114, 78-99. | 3.0 | 36 |
| 29 | Last Glacial Maximum environmental conditions at Andøya, northern Norway; evidence for a northern ice-edge ecological "hotspot". <i>Quaternary Science Reviews</i> , 2020, 239, 106364. | 3.0 | 34 |
| 30 | Cirque glacier activity in arctic Norway during the last deglaciation. <i>Quaternary Research</i> , 2007, 68, 387-399. | 1.7 | 33 |
| 31 | Hydroclimate variability of High Arctic Svalbard during the Holocene inferred from hydrogen isotopes of leaf waxes. <i>Quaternary Science Reviews</i> , 2018, 183, 177-187. | 3.0 | 33 |
| 32 | Sedimentary ancient DNA shows terrestrial plant richness continuously increased over the Holocene in northern Fennoscandia. <i>Science Advances</i> , 2021, 7, . | 10.3 | 30 |
| 33 | Reconstruction of Holocene glacier history from distal sources: glaciofluvial stream-bank mires and a glaciolacustrine sediment core near Sota Sjøter, Breheimen, southern Norway. <i>Holocene</i> , 2007, 17, 729-745. | 1.7 | 29 |
| 34 | Vegetation responses to rapid climatic changes during the last deglaciation 13,500–8,000 years ago on southwest Andøya, arctic Norway. <i>Vegetation History and Archaeobotany</i> , 2012, 21, 17-35. | 2.1 | 27 |
| 35 | Pervasive cold ice within a temperate glacier – implications for glacier thermal regimes, sediment transport and foreland geomorphology. <i>Cryosphere</i> , 2019, 13, 827-843. | 3.9 | 27 |
| 36 | Holocene glacier activity reconstructed from proglacial lake Gjåvatnet on Amsterdamøya, NW Svalbard. <i>Quaternary Science Reviews</i> , 2018, 183, 188-203. | 3.0 | 25 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Numerical analyses of a multi-proxy data set from a distal glacier-fed lake, S rsendalsvatn, western Norway. <i>Quaternary Science Reviews</i> , 2013, 73, 182-195. | 3.0 | 24 |
| 38 | Reconstructing Holocene Glacier and Climate Fluctuations From Lake Sediments in V rfluesj en, Northern Spitsbergen. <i>Frontiers in Earth Science</i> , 2018, 6, . | 1.8 | 24 |
| 39 | Role of Indian Summer Monsoon and Westerlies on glacier variability in the Himalaya and East Africa during Late Quaternary: Review and new data. <i>Earth-Science Reviews</i> , 2021, 212, 103431. | 9.1 | 24 |
| 40 | Response to Comment on "Glacial Survival of Boreal Trees in Northern Scandinavia". <i>Science</i> , 2012, 338, 742-742. | 12.6 | 23 |
| 41 | Glacier-fed lakes as palaeoenvironmental archives. <i>Geology Today</i> , 2016, 32, 213-218. | 0.9 | 23 |
| 42 | Lateglacial and early-Holocene climate variability reconstructed from multi-proxy records on And ya, northern Norway. <i>Quaternary Science Reviews</i> , 2014, 89, 108-122. | 3.0 | 22 |
| 43 | Holocene climate variability in the northern North Atlantic region: A review of terrestrial and marine evidence. <i>Geophysical Monograph Series</i> , 2005, , 289-322. | 0.1 | 20 |
| 44 | Late Holocene glacier reconstruction reveals retreat behind present limits and two-stage Little Ice Age on subantarctic South Georgia. <i>Journal of Quaternary Science</i> , 2017, 32, 888-901. | 2.1 | 20 |
| 45 | Rockglacier activity during the Last Glacial-Interglacial transition and Holocene spring snowmelting. <i>Quaternary Science Reviews</i> , 2007, 26, 793-807. | 3.0 | 18 |
| 46 | Disentangling source of moisture driving glacier dynamics and identification of 8.2ka event: evidence from pore water isotopes, Western Himalaya. <i>Scientific Reports</i> , 2020, 10, 15324. | 3.3 | 17 |
| 47 | Late Glacial mountain glacier culmination in Arctic Norway prior to the Younger Dryas. <i>Quaternary Science Reviews</i> , 2020, 245, 106461. | 3.0 | 17 |
| 48 | Holocene glacier and climate fluctuations of the maritime ice cap H gtuvbreen, northern Norway. <i>Holocene</i> , 2016, 26, 736-755. | 1.7 | 16 |
| 49 | Holocene glacier variability and Neoglacial hydroclimate at  lfofbreen, western Norway. <i>Quaternary Science Reviews</i> , 2016, 133, 28-47. | 3.0 | 16 |
| 50 | Long-term demise of sub-Antarctic glaciers modulated by the Southern Hemisphere Westerlies. <i>Scientific Reports</i> , 2021, 11, 8361. | 3.3 | 16 |
| 51 | Cirque Glacier on South Georgia Shows Centennial Variability over the Last 7000 Years. <i>Frontiers in Earth Science</i> , 2018, 6, . | 1.8 | 15 |
| 52 | Early Holocene Temperature Oscillations Exceed Amplitude of Observed and Projected Warming in Svalbard Lakes. <i>Geophysical Research Letters</i> , 2019, 46, 14732-14741. | 4.0 | 15 |
| 53 | Elevation Changes of the Fennoscandian Ice Sheet Interior During the Last Deglaciation. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088796. | 4.0 | 15 |
| 54 | Holocene multi-proxy environmental reconstruction from lake Hakluytvatnet, Amsterdam ya Island, Svalbard (79.5 N). <i>Quaternary Science Reviews</i> , 2018, 183, 164-176. | 3.0 | 14 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Glacier outburst floods reconstructed from lake sediments and their implications for Holocene variations of the plateau glacier Folgefonna in western Norway. <i>Boreas</i> , 2019, 48, 616-634. | 2.4 | 13 |
| 56 | Anthropogenic and environmental drivers of vegetation change in southeastern Norway during the Holocene. <i>Quaternary Science Reviews</i> , 2021, 270, 107175. | 3.0 | 12 |
| 57 | Sedimentary DNA and molecular evidence for early human occupation of the Faroe Islands. <i>Communications Earth & Environment</i> , 2021, 2, . | 6.8 | 11 |
| 58 | Patagonian ash on sub-Antarctic South Georgia: expanding the tephrostratigraphy of southern South America into the Atlantic sector of the Southern Ocean. <i>Journal of Quaternary Science</i> , 2018, 33, 482-486. | 2.1 | 10 |
| 59 | Late glacial and Holocene environmental changes inferred from sediments in Lake Myklevatnet, Nordfjord, western Norway. <i>Vegetation History and Archaeobotany</i> , 2014, 23, 229-248. | 2.1 | 9 |
| 60 | Investigating the Use of Scanning X-Ray Fluorescence to Locate Cryptotephra in Minerogenic Lacustrine Sediment: Experimental Results. <i>Developments in Paleoenvironmental Research</i> , 2015, , 305-324. | 8.0 | 8 |
| 61 | The Island of AmsterdamÅya: A key site for studying past climate in the Arctic Archipelago of Svalbard. <i>Quaternary Science Reviews</i> , 2018, 183, 157-163. | 3.0 | 8 |
| 62 | Mapping sediment landform assemblages to constrain lacustrine sedimentation in a glacier-fed lake catchment in northwest Spitsbergen. <i>Journal of Maps</i> , 2016, 12, 985-993. | 2.0 | 7 |
| 63 | Lake Sediments Reveal Large Variations in Flood Frequency Over the Last 6,500 Years in South-Western Norway. <i>Frontiers in Earth Science</i> , 2020, 8, . | 1.8 | 7 |
| 64 | Holocene paleomagnetic secular variation (PSV) near 80° N, Northwest Spitsbergen, Svalbard: Implications for evaluating High Arctic sediment chronologies. <i>Quaternary Science Reviews</i> , 2019, 210, 90-102. | 3.0 | 6 |
| 65 | Vegetation changes and plant wax biomarkers from an ombrotrophic bog define hydroclimate trends and human-environment interactions during the Holocene in northern Norway. <i>Holocene</i> , 2020, 30, 1849-1865. | 1.7 | 6 |
| 66 | Sediment Core and Glacial Environment Reconstruction. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 979-984. | 0.1 | 6 |
| 67 | Climate adaptation of pre-Viking societies. <i>Quaternary Science Reviews</i> , 2022, 278, 107374. | 3.0 | 5 |
| 68 | The Water Tower of India in a Long-term Perspective – A Way to Reconstruct Glaciers and Climate in Himachal Pradesh during the last 13,000 Years. <i>Journal of Climate Change</i> , 2016, 2, 103-112. | 0.5 | 4 |
| 69 | Inferring organic content of sediments by scanning reflectance spectroscopy (380–730 nm): applying a novel methodology in a case study from proglacial lakes in Norway. <i>Journal of Paleolimnology</i> , 2013, 50, 583-592. | 1.6 | 3 |
| 70 | Ecological response of a glacier-fed peatland to late Holocene climate and glacier changes on subantarctic South Georgia. <i>Quaternary Science Reviews</i> , 2020, 250, 106679. | 3.0 | 3 |
| 71 | Late Holocene canyon-carving floods in northern Iceland were smaller than previously reported. <i>Communications Earth & Environment</i> , 2021, 2, . | 6.8 | 3 |
| 72 | Glacier and ocean variability in Ata Sund, west Greenland, since 1400 CE. <i>Holocene</i> , 2020, 30, 1681-1693. | 1.7 | 2 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Wintertime extreme events recorded by lake sediments in Arctic Norway. <i>Holocene</i> , 2019, 29, 1305-1321. | 1.7 | 1 |
| 74 | The Fleeting Glaciers of the Arctic. , 2015, , 79-93. | | 1 |
| 75 | Lake sediments from southern Norway capture Holocene variations in flood seasonality. <i>Quaternary Science Reviews</i> , 2022, 290, 107643. | 3.0 | 1 |
| 76 | Mapping of the Subglacial Topography of Folgefonna Ice Cap in Western Norway—Consequences for Ice Retreat Patterns and Hydrological Changes. <i>Frontiers in Earth Science</i> , 0, 10, . | 1.8 | 0 |