

# Poul Christoffersen

## List of Publications by Year in descending order

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Version: 2024-02-01

83  
papers

3,052  
citations

136740

32  
h-index

189595

50  
g-index

133  
all docs

133  
docs citations

133  
times ranked

2907  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | A fully-coupled 3D model of a large Greenlandic outlet glacier with evolving subglacial hydrology, frontal plume melting and calving. <i>Journal of Glaciology</i> , 2022, 68, 486-502.  | 1.1 | 12        |
| 2  | Post-Processing Synchronized Bistatic Radar for Long Offset Glacier Sounding. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-17.  | 2.7 | 7         |
| 3  | Rapid basal melting of the Greenland Ice Sheet from surface meltwater drainage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .  | 3.3 | 10        |
| 4  | Cryoegg: development and field trials of a wireless subglacial probe for deep, fast-moving ice. <i>Journal of Glaciology</i> , 2021, 67, 627-640.  | 1.1 | 6         |
| 5  | Calving of a Large Greenlandic Tidewater Glacier has Complex Links to Meltwater Plumes and MÅ©lange. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF006051.   | 1.0 | 10        |
| 6  | Inferring Ice Fabric From Birefringence Loss in Airborne Radargrams: Application to the Eastern Shear Margin of Thwaites Glacier, West Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF006023. | 1.0 | 19        |
| 7  | Thermodynamics of a fast-moving Greenlandic outlet glacier revealed by fiber-optic distributed temperature sensing. <i>Science Advances</i> , 2021, 7, .   | 4.7 | 17        |
| 8  | Boreholeâ€Based Characterization of Deep Mixedâ€Mode Crevasses at a Greenlandic Outlet Glacier. <i>AGU Advances</i> , 2021, 2, e2020AV000291.  | 2.3 | 13        |
| 9  | Glaciological Monitoring Using the Sun as a Radio Source for Echo Detection. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092450.  | 1.5 | 8         |
| 10 | Rapid and accurate polarimetric radar measurements of ice crystal fabric orientation at the Western Antarctic Ice Sheet (WAIS) Divide ice core site. <i>Cryosphere</i> , 2021, 15, 4117-4133.  | 1.5 | 8         |
| 11 | Controls on Water Storage and Drainage in Crevasses on the Greenland Ice Sheet. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2021JF006287.  | 1.0 | 11        |
| 12 | Distributed Acoustic Sensing of Seismic Properties in a Borehole Drilled on a Fastâ€Flowing Greenlandic Outlet Glacier. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088148.  | 1.5 | 43        |
| 13 | Coupled modelling of subglacial hydrology and calving-front melting at Store Glacier, West Greenland. <i>Cryosphere</i> , 2020, 14, 905-924.   | 1.5 | 22        |
| 14 | Sensitivity of a calving glacier to iceâ€ocean interactions under climate change: new insights from a 3-D full-Stokes model. <i>Cryosphere</i> , 2019, 13, 1681-1694.   | 1.5 | 23        |
| 15 | Basal melting of Ross Ice Shelf from solar heat absorption in an ice-front polynya. <i>Nature Geoscience</i> , 2019, 12, 435-440.  | 5.4 | 69        |
| 16 | Physical Conditions of Fast Glacier Flow: 3. Seasonallyâ€Evolving Ice Deformation on Store Glacier, West Greenland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 245-267.                                     | 1.0 | 13        |
| 17 | High-accuracy UAV photogrammetry of ice sheet dynamics with no ground control. <i>Cryosphere</i> , 2019, 13, 955-968.  | 1.5 | 67        |
| 18 | Supraglacial lake drainage at a fast-flowing Greenlandic outlet glacier. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25468-25477.  | 3.3 | 41        |

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|----|---|-----|-----------|
| 19 | Contrasting Hydrological Controls on Bed Properties During the Acceleration of Pine Island Glacier, West Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 80-96.  | 1.0 | 5         |
| 20 | A Full-Stokes Calving Model Applied to a Large Greenlandic Glacier. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 410-432.   | 1.0 | 54        |
| 21 | Physical Conditions of Fast Glacier Flow: 1. Measurements From Boreholes Drilled to the Bed of Store Glacier, West Greenland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 324-348.   | 1.0 | 41        |
| 22 | Physical Conditions of Fast Glacier Flow: 2. Variable Extent of Anisotropic Ice and Soft Basal Sediment From Seismic Reflection Data Acquired on Store Glacier, West Greenland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 349-362. | 1.0 | 26        |
| 23 | Cascading lake drainage on the Greenland Ice Sheet triggered by tensile shock and fracture. <i>Nature Communications</i> , 2018, 9, 1064.   | 5.8 | 47        |
| 24 | Resolving the internal and basal geometry of ice masses using imaging phase-sensitive radar. <i>Journal of Glaciology</i> , 2018, 64, 649-660.  | 1.1 | 26        |
| 25 | Surface Meltwater Impounded by Seasonal Englacial Storage in West Greenland. <i>Geophysical Research Letters</i> , 2018, 45, 10,474.  | 1.5 | 36        |
| 26 | Linear response of east Greenland's tidewater glaciers to ocean/atmosphere warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7907-7912.  | 3.3 | 51        |
| 27 | Antarctic subglacial groundwater: a concept paper on its measurement and potential influence on ice flow. <i>Geological Society Special Publication</i> , 2018, 461, 197-213.   | 0.8 | 35        |
| 28 | Seismic evidence for complex sedimentary control of Greenland Ice Sheet flow. <i>Science Advances</i> , 2017, 3, e1603071.  | 4.7 | 39        |
| 29 | Observation Bias Correction Reveals More Rapidly Draining Lakes on the Greenland Ice Sheet. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 1867-1881.   | 1.0 | 15        |
| 30 | Reactivation of Kamb Ice Stream tributaries triggers century-scale reorganization of Siple Coast ice flow in West Antarctica. <i>Geophysical Research Letters</i> , 2015, 42, 8471-8480.  | 1.5 | 24        |
| 31 | UAV photogrammetry and structure from motion to assess calving dynamics at Store Glacier, a large outlet draining the Greenland ice sheet. <i>Cryosphere</i> , 2015, 9, 1-11.   | 1.5 | 215       |
| 32 | Amplified melt and flow of the Greenland ice sheet driven by late-summer cyclonic rainfall. <i>Nature Geoscience</i> , 2015, 8, 647-653.  | 5.4 | 107       |
| 33 | Basal topographic controls on rapid retreat of Humboldt Glacier, northern Greenland. <i>Journal of Glaciology</i> , 2015, 61, 137-150.  | 1.1 | 52        |
| 34 | Are seasonal calving dynamics forced by buttressing from ice margins or undercutting by melting? Outcomes from full-Stokes simulations of Store Glacier, West Greenland. <i>Cryosphere</i> , 2014, 8, 2353-2365.  | 1.5 | 78        |
| 35 | Sensitive response of the Greenland Ice Sheet to surface melt drainage over a soft bed. <i>Nature Communications</i> , 2014, 5, 5052.   | 5.8 | 67        |
| 36 | Ice-ocean interaction and calving front morphology at two west Greenland tidewater outlet glaciers. <i>Cryosphere</i> , 2014, 8, 1457-1468.   | 1.5 | 88        |

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|----|---|-----|-----------|
| 37 | Significant groundwater contribution to Antarctic ice streams hydrologic budget. <i>Geophysical Research Letters</i> , 2014, 41, 2003-2010.   | 1.5 | 87        |
| 38 | Dynamics of the late Pliocene West Antarctic Ice Sheet documented in subglacial diamictites, AND-1B drill core. <i>Global and Planetary Change</i> , 2014, 119, 56-70.  | 1.6 | 11        |
| 39 | Variable deceleration of Whillans Ice Stream, West Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 212-224.  | 1.0 | 40        |
| 40 | Surface undulations of Antarctic ice streams tightly controlled by bedrock topography. <i>Cryosphere</i> , 2013, 7, 407-417.  | 1.5 | 25        |
| 41 | Calving on tidewater glaciers amplified by submarine frontal melting. <i>Cryosphere</i> , 2013, 7, 119-128.   | 1.5 | 169       |
| 42 | The influence of subglacial hydrology on the flow of Kamb Ice Stream, West Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 97-110.   | 1.0 | 32        |
| 43 | Greenland subglacial lakes detected by radar. <i>Geophysical Research Letters</i> , 2013, 40, 6154-6159.  | 1.5 | 62        |
| 44 | Sensitivity of basal conditions in an inverse model: Vestfonna ice cap, Nordaustlandet/Svalbard. <i>Cryosphere</i> , 2012, 6, 771-783.  | 1.5 | 33        |
| 45 | Brief communication Greenland's shrinking ice cover: "fast times" but not that fast. <i>Cryosphere</i> , 2012, 6, 533-537.  | 1.5 | 39        |
| 46 | Sedimentological Signature of A Deformable Bed Preserved Beneath An Ice Stream In A Late Pleistocene Glacial Sequence, Ross Sea, Antarctica. <i>Journal of Sedimentary Research</i> , 2012, 82, 270-282.  | 0.8 | 25        |
| 47 | Hydrologic forcing of ice stream flow promotes rapid transport of sediment in basal ice. <i>Geology</i> , 2012, 40, 735-738.  | 2.0 | 5         |
| 48 | Partitioning effects from ocean and atmosphere on the calving stability of Kangerdlugssuaq Glacier, East Greenland. <i>Annals of Glaciology</i> , 2012, 53, 249-256.  | 2.8 | 34        |
| 49 | Changing Extent of Lakes and Permafrost on the North Slope of Alaska. , 2012, , .   |     | 2         |
| 50 | Ocean forcing of the Greenland Ice Sheet: Calving fronts and patterns of retreat identified by automatic satellite monitoring of eastern outlet glaciers. <i>Journal of Geophysical Research</i> , 2011, 116, .   | 3.3 | 127       |
| 51 | Dynamic patterns of ice stream flow in a 3-D higher-order ice sheet model with plastic bed and simplified hydrology. <i>Journal of Geophysical Research</i> , 2011, 116, .  | 3.3 | 66        |
| 52 | Ice thickness and basal conditions of vestfonna ice cap, eastern svalbard. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2011, 93, 311-322.  | 0.6 | 20        |
| 53 | Spatial distribution and change in the surface ice velocity field of vestfonna ice cap, nordaustlandet, svalbard, 1995-2010 using geodetic and satellite interferometry data. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2011, 93, 323-335. | 0.6 | 14        |
| 54 | Analysis of the microbial community and geochemistry of a sediment core from Great Slave Lake, Canada. <i>Antonie Van Leeuwenhoek</i> , 2011, 99, 423-430.  | 0.7 | 13        |

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|----|--|-----|-----------|
| 55 | Warming of waters in an East Greenland fjord prior to glacier retreat: mechanisms and connection to large-scale atmospheric conditions. <i>Cryosphere</i> , 2011, 5, 701-714.  | 1.5 | 93        |
| 56 | Greenland Ice Sheet. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 484-489.   | 0.1 | 1         |
| 57 | Subglacial lake sediments and sedimentary processes: Potential archives of ice sheet evolution, past environmental change, and the presence of life. <i>Geophysical Monograph Series</i> , 2011, , 83-110.           | 0.1 | 14        |
| 58 | Basal ice sequences in Antarctic ice stream: Exposure of past hydrologic conditions and a principal mode of sediment transfer. <i>Journal of Geophysical Research</i> , 2010, 115, .                                 | 3.3 | 51        |
| 59 | POLYNEUROPATHY IN PATIENTS WITH URAEMIA TREATED WITH DIALYSIS. <i>Acta Neurologica Scandinavica</i> , 2009, 46, 206-206.   | 1.0 | 2         |
| 60 | Seasonal Controls on Deposition of Late Devensian Glaciolacustrine Sediments, Central Ireland. , 2009, , 149-163.  |     | 3         |
| 61 | Anatomy and Facies Association of a Drumlin in Co. Down, Northern Ireland, from Seismic and Electrical Resistivity Surveys. , 2009, , 165-176.   |     | 3         |
| 62 | The Newbigging Esker System, Lanarkshire, Southern Scotland: A Model for Composite Tunnel, Subaqueous Fan and Supraglacial Esker Sedimentation. , 2009, , 177-202.   |     | 1         |
| 63 | Sediments and Landforms in an Upland Glaciated-Valley Landsystem: Upper Ennerdale, English Lake District. , 2009, , 235-256.   |     | 1         |
| 64 | Cenozoic Climate and Sea Level History from Glacimarine Strata off the Victoria Land Coast, Cape Roberts Project, Antarctica. , 2009, , 259-287.   |     | 34        |
| 65 | Glacial Stress Field Orientation Reconstructed through Micromorphology and $\mu$ X-Ray Computed Tomography of Till. , 2009, , 289-294.   |     | 1         |
| 66 | Sedimentology, Structural Characteristics and Morphology of a Neoglacial High-Arctic Moraine-Mound Complex: Midre LovÅ©nbreen, Svalbard. , 2009, , 11-22.  |     | 2         |
| 67 | A New Laboratory Apparatus for Investigating Clast Ploughing. , 2009, , 23-34.   |     | 1         |
| 68 | A Brief Review on Modeling Sediment Erosion, Transport and Deposition by Former Large Ice Sheets. , 2009, , 53-64.   |     | 0         |
| 69 | Sedimentary Signatures of the Waterloo Moraine, Ontario, Canada. , 2009, , 85-108.   |     | 13        |
| 70 | Estimating Episodic Permafrost Development in Northern Germany during the Pleistocene. , 2009, , 109-119.  |     | 4         |
| 71 | Large subglacial lake beneath the Laurentide Ice Sheet inferred from sedimentary sequences. <i>Geology</i> , 2008, 36, 563.  | 2.0 | 40        |
| 72 | Reply to comment by A. W. Rempel et al. on "A quantitative framework for interpretation of basal ice facies formed by ice accretion over subglacial sediment". <i>Journal of Geophysical Research</i> , 2007, 112, . | 3.3 | 3         |

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|----|--|-----|-----------|
| 73 | Exploration of Ellsworth Subglacial Lake: a concept paper on the development, organisation and execution of an experiment to explore, measure and sample the environment of a West Antarctic subglacial lake. <i>Reviews in Environmental Science and Biotechnology</i> , 2007, 6, 161-179.  | 3.9 | 34        |
| 74 | A quantitative framework for interpretation of basal ice facies formed by ice accretion over subglacial sediment. <i>Journal of Geophysical Research</i> , 2006, 111, .  | 3.3 | 32        |
| 75 | Formation and deformation of basal till during a glacier surge; Elisebreen, Svalbard. <i>Geomorphology</i> , 2006, 81, 217-234.  | 1.1 | 38        |
| 76 | Is the Greenland Ice Sheet in a state of collapse?. <i>Geology Today</i> , 2006, 22, 98-103.   | 0.3 | 9         |
| 77 | Basal processes beneath an Arctic glacier and their geomorphic imprint after a surge, Elisebreen, Svalbard. <i>Quaternary Research</i> , 2005, 64, 125-137.  | 1.0 | 61        |
| 78 | ICELANDIC ICE MOUNTAINS: DRAFT OF A PHYSICAL, GEOGRAPHICAL, AND HISTORICAL DESCRIPTION OF ICELANDIC ICE MOUNTAINS ON THE BASIS OF A JOURNEY TO THE MOST PROMINENT OF THEM IN 1792â€“1794. Sveinn PÃ¡lsson. 2004. Edited by R.S. Williams Jr and O. SigurÃ°sson. Reykjavik: Icelandic Literary Society. xxxvi + 183 p, illustrated, hard cover. ISBN 9979-66-146-1. \$US56.00. <i>Polar Record</i> , 2005, 41, 368-369. | 0.4 | 0         |
| 79 | Signature of palaeo-ice-stream stagnation: till consolidation induced by basal freeze-on. <i>Boreas</i> , 2003, 32, 114-129.   | 1.2 | 52        |
| 80 | Response of subglacial sediments to basal freeze-on 1. Theory and comparison to observations from beneath the West Antarctic Ice Sheet. <i>Journal of Geophysical Research</i> , 2003, 108, .  | 3.3 | 95        |
| 81 | Thermodynamics of basal freeze-on: predicting basal and subglacial signatures of stopped ice streams and interstream ridges. <i>Annals of Glaciology</i> , 2003, 36, 233-243.  | 2.8 | 55        |
| 82 | Signature of palaeo-ice-stream stagnation: till consolidation induced by basal freeze-on. <i>Boreas</i> , 2003, 32, 114-129.   | 1.2 | 12        |
| 83 | Water flow through sediments and at the ice-sediment interface beneath Sermeq Kujalleq (Store) Tj ETQq1 1 0.784314 rgBT /Overload  | 1.1 | 3         |