

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	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
2	Calving on tidewater glaciers amplified by submarine frontal melting. <i>Cryosphere</i> , 2013, 7, 119-128.	1.5	169
3	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
4	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
5	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
6	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
7	Ice-ocean interaction and calving front morphology at two west Greenland tidewater outlet glaciers. <i>Cryosphere</i> , 2014, 8, 1457-1468.	1.5	88
8	Significant groundwater contribution to Antarctic ice streams hydrologic budget. <i>Geophysical Research Letters</i> , 2014, 41, 2003-2010.	1.5	87
9	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
10	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
11	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
12	High-accuracy UAV photogrammetry of ice sheet dynamics with no ground control. <i>Cryosphere</i> , 2019, 13, 955-968.	1.5	67
13	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
14	Greenland subglacial lakes detected by radar. <i>Geophysical Research Letters</i> , 2013, 40, 6154-6159.	1.5	62
15	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
16	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
17	A Full-Stokes 3D Calving Model Applied to a Large Greenlandic Glacier. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 410-432.	1.0	54
18	Signature of palaeo-ice stream stagnation: till consolidation induced by basal freeze-on. <i>Boreas</i> , 2003, 32, 114-129.	1.2	52

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19	Basal topographic controls on rapid retreat of Humboldt Glacier, northern Greenland. <i>Journal of Glaciology</i> , 2015, 61, 137-150.	1.1	52
20	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
21	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
22	Cascading lake drainage on the Greenland Ice Sheet triggered by tensile shock and fracture. <i>Nature Communications</i> , 2018, 9, 1064.	5.8	47
23	Distributed Acoustic Sensing of Seismic Properties in a Borehole Drilled on a Fast-Flowing Greenlandic Outlet Glacier. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088148.	1.5	43
24	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
25	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
26	Large subglacial lake beneath the Laurentide Ice Sheet inferred from sedimentary sequences. <i>Geology</i> , 2008, 36, 563.	2.0	40
27	Variable deceleration of Whillans Ice Stream, West Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 212-224.	1.0	40
28	Brief communication Greenland's shrinking ice cover: "fast times" but not that fast. <i>Cryosphere</i> , 2012, 6, 533-537.	1.5	39
29	Seismic evidence for complex sedimentary control of Greenland Ice Sheet flow. <i>Science Advances</i> , 2017, 3, e1603071.	4.7	39
30	Formation and deformation of basal till during a glacier surge; Elisebreen, Svalbard. <i>Geomorphology</i> , 2006, 81, 217-234.	1.1	38
31	Surface Meltwater Impounded by Seasonal Englacial Storage in West Greenland. <i>Geophysical Research Letters</i> , 2018, 45, 10,474.	1.5	36
32	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
33	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
34	Cenozoic Climate and Sea Level History from Glacimarine Strata off the Victoria Land Coast, Cape Roberts Project, Antarctica. , 2009, , 259-287.		34
35	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
36	Sensitivity of basal conditions in an inverse model: Vestfonna ice cap, Nordaustlandet/Svalbard. <i>Cryosphere</i> , 2012, 6, 771-783.	1.5	33

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37	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
38	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
39	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
40	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
41	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
42	Surface undulations of Antarctic ice streams tightly controlled by bedrock topography. <i>Cryosphere</i> , 2013, 7, 407-417.	1.5	25
43	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
44	Sensitivity of a calving glacier to ice-ocean interactions under climate change: new insights from a 3-D full-Stokes model. <i>Cryosphere</i> , 2019, 13, 1681-1694.	1.5	23
45	Coupled modelling of subglacial hydrology and calving-front melting at Store Glacier, West Greenland. <i>Cryosphere</i> , 2020, 14, 905-924.	1.5	22
46	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
47	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
48	Thermodynamics of a fast-moving Greenlandic outlet glacier revealed by fiber-optic distributed temperature sensing. <i>Science Advances</i> , 2021, 7, .	4.7	17
49	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
50	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
51	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
52	Sedimentary Signatures of the Waterloo Moraine, Ontario, Canada. , 2009, , 85-108.		13
53	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
54	Physical Conditions of Fast Glacier Flow: 3. Seasonally-Evolving Ice Deformation on Store Glacier, West Greenland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 245-267.	1.0	13

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55	Borehole-Based Characterization of Deep Mixed-Mode Crevasses at a Greenlandic Outlet Glacier. <i>AGU Advances</i> , 2021, 2, e2020AV000291.	2.3	13
56	Signature of palaeo-ice-stream stagnation: till consolidation induced by basal freeze-on. <i>Boreas</i> , 2003, 32, 114-129.	1.2	12
57	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
58	Dynamics of the late Pliocene-Pleistocene 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
59	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
60	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
61	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
62	Is the Greenland Ice Sheet in a state of collapse?. <i>Geology Today</i> , 2006, 22, 98-103.	0.3	9
63	Glaciological Monitoring Using the Sun as a Radio Source for Echo Detection. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092450.	1.5	8
64	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
65	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
66	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
67	Hydrologic forcing of ice stream flow promotes rapid transport of sediment in basal ice. <i>Geology</i> , 2012, 40, 735-738.	2.0	5
68	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
69	Estimating Episodic Permafrost Development in Northern Germany during the Pleistocene. , 2009, , 109-119.		4
70	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
71	Seasonal Controls on Deposition of Late Devensian Glaciolacustrine Sediments, Central Ireland. , 2009, , 149-163.		3
72	Anatomy and Facies Association of a Drumlin in Co. Down, Northern Ireland, from Seismic and Electrical Resistivity Surveys. , 2009, , 165-176.		3

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73	Water flow through sediments and at the ice-sediment interface beneath Sermeq Kujalleq (Store) Tj ETQq1 1 0.784314 rgBT JOverloc	1.1	3
74	POLYNEUROPATHY IN PATIENTS WITH URAEMIA TREATED WITH DIALYSIS. Acta Neurologica Scandinavica, 2009, 46, 206-206.	1.0	2
75	Sedimentology, Structural Characteristics and Morphology of a Neoglacial High-Arctic Moraine-Mound Complex: Mídre LovÁ©nbreen, Svalbard. , 2009, , 11-22.		2
76	Changing Extent of Lakes and Permafrost on the North Slope of Alaska. , 2012, ,		2
77	The Newbigging Esker System, Lanarkshire, Southern Scotland: A Model for Composite Tunnel, Subaqueous Fan and Supraglacial Esker Sedimentation. , 2009, , 177-202.		1
78	Sediments and Landforms in an Upland Glaciated-Valley Landsystem: Upper Ennerdale, English Lake District. , 2009, , 235-256.		1
79	Glacial Stress Field Orientation Reconstructed through Micromorphology and ÅµX-Ray Computed Tomography of Till. , 2009, , 289-294.		1
80	A New Laboratory Apparatus for Investigating Clast Ploughing. , 2009, , 23-34.		1
81	Greenland Ice Sheet. Encyclopedia of Earth Sciences Series, 2011, , 484-489.	0.1	1
82	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. Polar Record, 2005, 41, 368-369.	0.4	0
83	A Brief Review on Modeling Sediment Erosion, Transport and Deposition by Former Large Ice Sheets. , 2009, , 53-64.		0