

# Johan Nilsson

## List of Publications by Year in descending order

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Version: 2024-02-01

74  
papers

2,469  
citations

201674

27  
h-index

214800

47  
g-index

95  
all docs

95  
docs citations

95  
times ranked

2995  
citing authors

#	ARTICLE	IF	CITATIONS
1	Salinity-dominated thermohaline circulation in sill basins: can two stable equilibria exist?. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 62, 123.	1.7	16
2	Preface to the "Sandström-Walin Special Section". <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 62, 91.	1.7	0
3	Petermann ice shelf may not recover after a future breakup. <i>Nature Communications</i> , 2022, 13, 2519.	12.8	6
4	Linking Coherent Anticyclonic Eddies in the Iceland Basin to Decadal Oceanic Variability in the Subpolar North Atlantic. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	0
5	The climate sensitivity of northern Greenland fjords is amplified through sea-ice damming. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	6.8	4
6	The Holocene dynamics of Ryder Glacier and ice tongue in north Greenland. <i>Cryosphere</i> , 2021, 15, 4073-4097.	3.9	11
7	A Satellite-Based Lagrangian Perspective on Atlantic Water Fractionation Between Arctic Gateways. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017248.	2.6	2
8	Ryder Glacier in northwest Greenland is shielded from warm Atlantic water by a bathymetric sill. <i>Communications Earth &amp; Environment</i> , 2020, 1, .	6.8	28
9	Variable C <sup>13</sup> :P composition of organic production and its effect on ocean carbon storage in glacial-like model simulations. <i>Biogeosciences</i> , 2020, 17, 2219-2244.	3.3	9
10	The Regeneration of the Lofoten Vortex through Vertical Alignment. <i>Journal of Physical Oceanography</i> , 2020, 50, 2689-2711.	1.7	16
11	Mechanisms of decadal changes in sea surface height and heat content in the eastern Nordic Seas. <i>Ocean Science</i> , 2020, 16, 715-728.	3.4	9
12	Arctic Ocean Freshwater Dynamics: Transient Response to Increasing River Runoff and Precipitation. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 5205-5219.	2.6	15
13	Arctic closure as a trigger for Atlantic overturning at the Eocene-Oligocene Transition. <i>Nature Communications</i> , 2019, 10, 3797.	12.8	49
14	Oceanic Overturning and Heat Transport: The Role of Background Diffusivity. <i>Journal of Climate</i> , 2019, 32, 701-716.	3.2	10
15	Atlantic-Pacific Asymmetry in Deep Water Formation. <i>Annual Review of Earth and Planetary Sciences</i> , 2018, 46, 327-352.	11.0	68
16	Climate sensitivity and meridional overturning circulation in the late Eocene using GFDL CM2.1. <i>Climate of the Past</i> , 2018, 14, 789-810.	3.4	49
17	Acoustic mapping of mixed layer depth. <i>Ocean Science</i> , 2018, 14, 503-514.	3.4	15
18	Bathymetry and oceanic flow structure at two deep passages crossing the Lomonosov Ridge. <i>Ocean Science</i> , 2018, 14, 1-13.	3.4	14

#	ARTICLE	IF	CITATIONS
19	Shear dispersion and delayed propagation of temperature anomalies along the Norwegian Atlantic Slope Current. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2018, 70, 1-13.	1.7	5
20	Jordens oceaner ur fysikperspektiv. <i>Kosmos</i> , 2018, 94, 74-94.	0.0	1
21	Acoustic Mapping of Thermohaline Staircases in the Arctic Ocean. <i>Scientific Reports</i> , 2017, 7, 15192.	3.3	27
22	The De Long Trough: a newly discovered glacial trough on the East Siberian continental margin. <i>Climate of the Past</i> , 2017, 13, 1269-1284.	3.4	22
23	Post-glacial flooding of the Bering Land Bridge dated to 11â€“calâ€“kaâ€“BP based on new geophysical and sediment records. <i>Climate of the Past</i> , 2017, 13, 991-1005.	3.4	85
24	Ice-shelf damming in the glacial Arctic Ocean: dynamical regimes of a basin-covering kilometre-thick ice shelf. <i>Cryosphere</i> , 2017, 11, 1745-1765.	3.9	9
25	Evidence for an ice shelf covering the central Arctic Ocean during the penultimate glaciation. <i>Nature Communications</i> , 2016, 7, 10365.	12.8	133
26	The response of the central Arctic Ocean stratification to freshwater perturbations. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 792-817.	2.6	21
27	Stationary Wave Reflection as a Mechanism for Zonalizing the Atlantic Winter Jet at the LGM. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 3329-3342.	1.7	42
28	Stationary Sea Surface Height Anomalies in Cyclonic Boundary Currents: Conservation of Potential Vorticity and Deviations from Strict Topographic Steering. <i>Journal of Physical Oceanography</i> , 2016, 46, 2437-2456.	1.7	7
29	The interaction between sea ice and salinity-dominated ocean circulation: implications for halocline stability and rapid changes of sea ice cover. <i>Climate Dynamics</i> , 2016, 47, 3301-3317.	3.8	15
30	On the flow of Atlantic water and temperature anomalies in the Nordic Seas toward the Arctic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 7897-7918.	2.6	36
31	Arctic Ocean Water Mass Transformation in $\sigma_t$ Coordinates. <i>Journal of Physical Oceanography</i> , 2015, 45, 1025-1050.	1.7	19
32	Evolution of the large-scale atmospheric circulation in response to changing ice sheets over the last glacial cycle. <i>Climate of the Past</i> , 2014, 10, 1453-1471.	3.4	96
33	Arctic Ocean freshwater composition, pathways and transformations from a passive tracer simulation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2014, 66, 23988.	1.7	12
34	Arctic Ocean glacial history. <i>Quaternary Science Reviews</i> , 2014, 92, 40-67.	3.0	184
35	Water Mass Transformation in Salinity-Temperature Space. <i>Journal of Physical Oceanography</i> , 2014, 44, 2547-2568.	1.7	40
36	Estimating ventilation time scales using overturning stream functions. <i>Ocean Dynamics</i> , 2014, 64, 797-807.	2.2	1

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37	Ocean Basin Geometry and the Salinification of the Atlantic Ocean. <i>Journal of Climate</i> , 2013, 26, 6163-6184.	3.2	33
38	Pre-LGM Northern Hemisphere ice sheet topography. <i>Climate of the Past</i> , 2013, 9, 2365-2378.	3.4	68
39	The sensitivity of the Arctic sea ice to orbitally induced insolation changes: a study of the mid-Holocene Paleoclimate Modelling Intercomparison Project 2 and 3 simulations. <i>Climate of the Past</i> , 2013, 9, 969-982.	3.4	24
40	Deep Arctic Ocean warming during the last glacial cycle. <i>Nature Geoscience</i> , 2012, 5, 631-634.	12.9	63
41	The World Ocean Thermohaline Circulation*. <i>Journal of Physical Oceanography</i> , 2012, 42, 1445-1460.	1.7	66
42	Interactions between stationary waves and ice sheets: linear versus nonlinear atmospheric response. <i>Climate Dynamics</i> , 2012, 38, 1249-1262.	3.8	29
43	A model study of the first ventilated regime of the Arctic Ocean during the early Miocene. <i>Polar Research</i> , 2012, 31, 10859.	1.6	8
44	Analysis of the Meridional Energy Transport by Atmospheric Overturning Circulations. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 1806-1820.	1.7	32
45	The impact of topographically forced stationary waves on local ice-sheet climate. <i>Journal of Glaciology</i> , 2010, 56, 534-544.	2.2	15
46	Corrigendum to "Climate change between the mid and late Holocene in northern high latitudes" Part 1: Survey of temperature and precipitation proxy data" published in <i>Clim. Past</i> , 6, 591-608, 2010. <i>Climate of the Past</i> , 2010, 6, 739-743.	3.4	6
47	Climate change between the mid and late Holocene in northern high latitudes " Part 1: Survey of temperature and precipitation proxy data. <i>Climate of the Past</i> , 2010, 6, 591-608.	3.4	55
48	Climate change between the mid and late Holocene in northern high latitudes " Part 2: Model-data comparisons. <i>Climate of the Past</i> , 2010, 6, 609-626.	3.4	47
49	Ventilation of the Miocene Arctic Ocean: An idealized model study. <i>Paleoceanography</i> , 2010, 25, n/a-n/a.	3.0	8
50	An Arctic Ocean ice shelf during MIS 6 constrained by new geophysical and geological data. <i>Quaternary Science Reviews</i> , 2010, 29, 3505-3517.	3.0	104
51	Wind sensitivity of the inter-ocean heat exchange. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2008, 61, 635-653.	1.7	3
52	Liquid freshwater transport and Polar Surface Water characteristics in the East Greenland Current during the AO-02 Oden expedition. <i>Progress in Oceanography</i> , 2008, 78, 45-57.	3.2	30
53	On the Asymmetry between Cyclonic and Anticyclonic Flow in Basins with Sloping Boundaries. <i>Journal of Physical Oceanography</i> , 2008, 38, 771-787.	1.7	17
54	A Conceptual Model of the Surface Salinity Distribution in the Oceanic Hadley Cell. <i>Journal of Climate</i> , 2008, 21, 6586-6598.	3.2	8

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55	Thermodynamic Analysis of Ocean Circulation. <i>Journal of Physical Oceanography</i> , 2007, 37, 2038-2052.	1.7	51
56	Buoyancy-driven flow and nature of vertical mixing in a zonally averaged model. <i>Geophysical Monograph Series</i> , 2007, , 33-52.	0.1	5
57	Symmetric and asymmetric modes of the thermohaline circulation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2006, 58, 616-627.	1.7	5
58	The interaction between waters from the Arctic Ocean and the Nordic Seas north of Fram Strait and along the East Greenland Current: results from the Arctic Ocean-02 Oden expedition. <i>Journal of Marine Systems</i> , 2005, 55, 1-30.	2.1	255
59	Thermohaline circulation induced by bottom friction in sloping-boundary basins. <i>Journal of Marine Research</i> , 2005, 63, 705-728.	0.3	17
60	On the spontaneous transition to asymmetric thermohaline circulation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2004, 56, 68-78.	1.7	4
61	Baroclinic boundary currents with downstream decreasing buoyancy: A study of an idealized Nordic Seas system. <i>Journal of Marine Research</i> , 2004, 62, 517-543.	0.3	44
62	The role of diapycnal mixing for the equilibrium response of thermohaline circulation. <i>Ocean Dynamics</i> , 2004, 54, 54-65.	2.2	11
63	On the spontaneous transition to asymmetric thermohaline circulation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2004, 56, 68-78.	1.7	2
64	The Thermohaline Circulation and Vertical Mixing: Does Weaker Density Stratification Give Stronger Overturning?. <i>Journal of Physical Oceanography</i> , 2003, 33, 2781-2795.	1.7	67
65	Spatial reorganization of SST anomalies by stationary atmospheric waves. <i>Dynamics of Atmospheres and Oceans</i> , 2001, 34, 1-21.	1.8	5
66	Freshwater forcing as a booster of thermohaline circulation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2001, 53, 629-641.	1.7	37
67	Entry, Flux, and Exit of Potential Vorticity in Ocean Circulation. <i>Journal of Physical Oceanography</i> , 2001, 31, 777-789.	1.7	30
68	Freshwater forcing as a booster of thermohaline circulation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2001, 53, 629-641.	1.7	23
69	Propagation, Diffusion, and Decay of SST Anomalies beneath an Advective Atmosphere. <i>Journal of Physical Oceanography</i> , 2000, 30, 1505-1513.	1.7	9
70	Equilibrium atmospheres of a two-column radiative-convective model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1999, 125, 2239-2264.	2.7	58
71	Reconciling thermodynamic and dynamic methods of computation of water-mass transformation rates. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1999, 46, 545-572.	1.4	129
72	A theoretical investigation of the diffusive boundary layer in benthic flux chamber experiments. <i>Journal of Sea Research</i> , 1999, 42, 179-189.	1.6	9

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73	Mixing in the ocean produced by tropical cyclones. Tellus, Series A: Dynamic Meteorology and Oceanography, 1996, 48, 342-355.	1.7	4
74	Mixing in the ocean produced by tropical cyclones. Tellus, Series A: Dynamic Meteorology and Oceanography, 1996, 48, 342-355.	1.7	2