

# N-J Schlegel

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

1,356  
citations

430874

18  
h-index

501196

28  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1192  
citing authors

#	ARTICLE	IF	CITATIONS
1	Derivation of bedrock topography measurement requirements for the reduction of uncertainty in ice-sheet model projections of Thwaites Glacier. <i>Cryosphere</i> , 2022, 16, 761-778.	3.9	3
2	Carbon Dioxide Ice Glaciers at the South Pole of Mars. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	10
3	Simulating the Holocene deglaciation across a marine-terminating portion of southwestern Greenland in response to marine and atmospheric forcings. <i>Cryosphere</i> , 2022, 16, 2355-2372.	3.9	2
4	Projected land ice contributions to twenty-first-century sea level rise. <i>Nature</i> , 2021, 593, 74-82.	27.8	200
5	The Polar Radiant Energy in the Far Infrared Experiment: A New Perspective on Polar Longwave Energy Exchanges. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E1431-E1449.	3.3	14
6	Future Sea Level Change Under Coupled Model Intercomparison Project Phase 5 and Phase 6 Scenarios From the Greenland and Antarctic Ice Sheets. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091741.	4.0	28
7	Rate of mass loss from the Greenland Ice Sheet will exceed Holocene values this century. <i>Nature</i> , 2020, 586, 70-74.	27.8	53
8	Exceptionally high heat flux needed to sustain the Northeast Greenland Ice Stream. <i>Cryosphere</i> , 2020, 14, 841-854.	3.9	22
9	Projecting Antarctica's contribution to future sea level rise from basal ice shelf melt using linear response functions of 16 ice sheet models (LARMIP-2). <i>Earth System Dynamics</i> , 2020, 11, 35-76.	7.1	92
10	Sensitivity of the Northeast Greenland Ice Stream to Geothermal Heat. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005252.	2.8	19
11	Understanding of Contemporary Regional Sea-Level Change and the Implications for the Future. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000672.	23.0	74
12	ISMIP6 Antarctica: a multi-model ensemble of the Antarctic ice sheet evolution over the 21st century. <i>Cryosphere</i> , 2020, 14, 3033-3070.	3.9	198
13	The future sea-level contribution of the Greenland ice sheet: a multi-model ensemble study of ISMIP6. <i>Cryosphere</i> , 2020, 14, 3071-3096.	3.9	144
14	ISSM-SLPS: geodetically compliant Sea-Level Projection System for the Ice-sheet and Sea-level System Model v4.17. <i>Geoscientific Model Development</i> , 2020, 13, 4925-4941.	3.6	4
15	Quantification of Surface Forcing Requirements for a Greenland Ice Sheet Model Using Uncertainty Analyses. <i>Geophysical Research Letters</i> , 2019, 46, 9700-9709.	4.0	6
16	initMIP-Antarctica: an ice sheet model initialization experiment of ISMIP6. <i>Cryosphere</i> , 2019, 13, 1441-1471.	3.9	69
17	The impact of model resolution on the simulated Holocene retreat of the southwestern Greenland ice sheet using the Ice Sheet System Model (ISSM). <i>Cryosphere</i> , 2019, 13, 879-893.	3.9	22
18	Slowdown in Antarctic mass loss from solid Earth and sea-level feedbacks. <i>Science</i> , 2019, 364, .	12.6	56

#	ARTICLE	IF	CITATIONS
19	Implementation of higher-order vertical finite elements in ISSM v4.13 for improved ice sheet flow modeling over paleoclimate timescales. <i>Geoscientific Model Development</i> , 2018, 11, 1683-1694.	3.6	16
20	Simulating ice thickness and velocity evolution of Upernavik Isstrøm 1849–2012 by forcing prescribed terminus positions in ISSM. <i>Cryosphere</i> , 2018, 12, 1511-1522.	3.9	13
21	Exploration of Antarctic Ice Sheet 100-year contribution to sea level rise and associated model uncertainties using the ISSM framework. <i>Cryosphere</i> , 2018, 12, 3511-3534.	3.9	52
22	Design and results of the ice sheet model initialisation experiments initMIP-Greenland: an ISMIP6 intercomparison. <i>Cryosphere</i> , 2018, 12, 1433-1460.	3.9	89
23	Application of GRACE to the assessment of model-based estimates of monthly Greenland Ice Sheet mass balance (2003–2012). <i>Cryosphere</i> , 2016, 10, 1965-1989.	3.9	21
24	Greenland Ice Sheet seasonal and spatial mass variability from model simulations and GRACE (2003–2012). <i>Cryosphere</i> , 2016, 10, 1259-1277.	3.9	14
25	On ISSM and leveraging the Cloud towards faster quantification of the uncertainty in ice-sheet mass balance projections. <i>Computers and Geosciences</i> , 2016, 96, 193-201.	4.2	5
26	Ice discharge uncertainties in Northeast Greenland from boundary conditions and climate forcing of an ice flow model. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 29-54.	2.8	27
27	Inferred basal friction and surface mass balance of the Northeast Greenland Ice Stream using data assimilation of ICESat (Ice Cloud and land Elevation Satellite) surface altimetry and ISSM (Ice Sheet) Tj ETQq1 1 0.784314 rg35 /Overl	2.8	23
28	Decadal-scale sensitivity of Northeast Greenland ice flow to errors in surface mass balance using ISSM. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 667-680.	2.8	23