Daniela Jansen

List of Publications by Year
in descending order

35 papers	1,235 citations	331670 21 h-index	377865 34 g-index
48 all docs	48 docs citations	48 times ranked	1254 citing authors

#	Article	IF	Citations
1	A consistent data set of Antarctic ice sheet topography, cavity geometry, and global bathymetry. Earth System Science Data, 2010, 2, 261-273.	9.9	129
2	Surface melt and ponding on Larsen C Ice Shelf and the impact of fÃ¶hn winds. Antarctic Science, 2014, 26, 625-635.	0.9	92
3	Surface structure and stability of the Larsen C ice shelf, Antarctic Peninsula. Journal of Glaciology, 2009, 55, 400-410.	2.2	84
4	Marine ice regulates the future stability of a large Antarctic ice shelf. Nature Communications, 2014, 5, 3707.	12.8	72
5	Basal crevasses in Larsen C Ice Shelf and implications for their global abundance. Cryosphere, 2012, 6, 113-123.	3.9	65
6	Massive subsurface ice formed by refreezing of ice-shelf melt ponds. Nature Communications, 2016, 7, 11897.	12.8	63
7	Converging flow and anisotropy cause large-scale folding in Greenland's ice sheet. Nature Communications, 2016, 7, 11427.	12.8	56
8	Present stability of the Larsen C ice shelf, Antarctic Peninsula. Journal of Glaciology, 2010, 56, 593-600.	2.2	52
9	Physical analysis of an Antarctic ice coreâ€"towards an integration of micro- and macrodynamics of polar ice. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20150347.	3.4	44
10	Marine ice formation in a suture zone on the Larsen C Ice Shelf and its influence on ice shelf dynamics. Journal of Geophysical Research F: Earth Surface, 2013, 118, 1628-1640.	2.8	43
11	Brief Communication: Newly developing rift in Larsen C Ice Shelf presents significant risk to stability. Cryosphere, 2015, 9, 1223-1227.	3.9	39
12	Full-field predictions of ice dynamic recrystallisation under simple shear conditions. Earth and Planetary Science Letters, 2016, 450, 233-242.	4.4	38
13	Greenland Ice Sheet: Higher Nonlinearity of Ice Flow Significantly Reduces Estimated Basal Motion. Geophysical Research Letters, 2018, 45, 6542-6548.	4.0	35
14	Small-scale disturbances in the stratigraphy of the NEEM ice core: observations and numerical model simulations. Cryosphere, 2016, 10, 359-370.	3.9	34
15	Basal melting of A-38B: A physical model constrained by satellite observations. Remote Sensing of Environment, 2007, 111, 195-203.	11.0	33
16	Dynamic recrystallization during deformation of polycrystalline ice: insights from numerical simulations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20150346.	3.4	31
17	Location and distribution of micro-inclusions in the EDML and NEEM ice cores using optical microscopy and in situ Raman spectroscopy. Cryosphere, 2017, 11, 1075-1090.	3.9	28
18	Bed topography and subglacial landforms in the onset region of the Northeast Greenland Ice Stream. Annals of Glaciology, 2020, 61, 143-153.	1.4	26

#	Article	IF	Citations
19	Calving Fronts of Antarctica: Mapping and Classification. Remote Sensing, 2013, 5, 6305-6322.	4.0	25
20	Investigating englacial reflections with vibro- and explosive-seismic surveys at Halvfarryggen ice dome, Antarctica. Annals of Glaciology, 2013, 54, 189-200.	1.4	24
21	Strain localization and dynamic recrystallization in the iceâ€"air aggregate: a numerical study. Cryosphere, 2016, 10, 3071-3089.	3.9	22
22	Impurity Analysis and Microstructure Along the Climatic Transition From MIS 6 Into 5e in the EDML Ice Core Using Cryo-Raman Microscopy. Frontiers in Earth Science, 2019, 7, .	1.8	18
23	Persistent iceberg groundings in the western Weddell Sea, Antarctica. Remote Sensing of Environment, 2010, 114, 385-391.	11.0	17
24	Observationally constrained surface mass balance of Larsen C ice shelf, Antarctica. Cryosphere, 2017, 11, 2411-2426.	3.9	16
25	Complex Basal Conditions and Their Influence on Ice Flow at the Onset of the Northeast Greenland Ice Stream. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2020JF005689.	2.8	16
26	A stratigraphy-based method for reconstructing ice core orientation. Annals of Glaciology, 2021, 62, 191-202.	1.4	15
27	Using a composite flow law to model deformation in the NEEM deep ice core, Greenland â€" Part 1: The role of grain size and grain size distribution on deformation of the upper 2207â€‰m. Cryosphere, 2020, 14, 2429-2448.	3.9	14
28	Preserved landscapes underneath the Antarctic Ice Sheet reveal the geomorphological history of Jutulstraumen Basin. Earth Surface Processes and Landforms, 2021, 46, 2728-2745.	2.5	13
29	Airborne ultra-wideband radar sounding over the shear margins and along flow lines at the onset region of the Northeast Greenland Ice Stream. Earth System Science Data, 2022, 14, 763-779.	9.9	13
30	Upstream flow effects revealed in the EastGRIP ice core using Monte Carlo inversion of a two-dimensional ice-flow model. Cryosphere, 2021, 15, 3655-3679.	3.9	12
31	Seawater softening of suture zones inhibits fracture propagation in Antarctic ice shelves. Nature Communications, 2019, 10, 5491.	12.8	11
32	Evidence of Cascading Subglacial Water Flow at Jutulstraumen Glacier (Antarctica) Derived From Sentinelâ€1 and ICESatâ€2 Measurements. Geophysical Research Letters, 2021, 48, e2021GL094472.	4.0	11
33	Model experiments on large tabular iceberg evolution: ablation and strain thinning. Journal of Glaciology, 2005, 51, 363-372.	2.2	10
34	Origin of englacial stratigraphy at three deep ice core sites of the Greenland Ice Sheet by synthetic radar modelling. Journal of Glaciology, 0, , 1-13.	2.2	5
35	In situ measurement of electrical resistivity of marine sediments, results from Cascadia Basin off Vancouver Island. Marine Geology, 2005, 216, 17-26.	2.1	1