

# Karina Nielsen

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

1,242  
citations

361413

20  
h-index

414414

32  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1368  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mass balance of the Greenland ice sheet (2003–2008) from ICESat data – the impact of interpolation, sampling and firn density. <i>Cryosphere</i> , 2011, 5, 173-186.	3.9	167
2	Monitoring recent lake level variations on the Tibetan Plateau using CryoSat-2 SARIn mode data. <i>Journal of Hydrology</i> , 2017, 544, 109-124.	5.4	130
3	Altimetry for the future: Building on 25 years of progress. <i>Advances in Space Research</i> , 2021, 68, 319-363.	2.6	119
4	Validation of CryoSat-2 SAR mode based lake levels. <i>Remote Sensing of Environment</i> , 2015, 171, 162-170.	11.0	69
5	CryoSat-2 altimetry for river level monitoring – Evaluation in the Ganges–Brahmaputra River basin. <i>Remote Sensing of Environment</i> , 2015, 168, 80-89.	11.0	60
6	Improved inland water levels from SAR altimetry using novel empirical and physical retracers. <i>Journal of Hydrology</i> , 2016, 537, 234-247.	5.4	60
7	Evaluation of Sentinel-3 SRAL SAR altimetry over Chinese rivers. <i>Remote Sensing of Environment</i> , 2020, 237, 111546.	11.0	57
8	CryoSat-2 radar altimetry for monitoring freshwater resources of China. <i>Remote Sensing of Environment</i> , 2017, 200, 125-139.	11.0	47
9	River discharge estimation from radar altimetry: Assessment of satellite performance, river scales and methods. <i>Journal of Hydrology</i> , 2020, 583, 124561.	5.4	41
10	Greenland uplift and regional sea level changes from ICESat observations and GIA modelling. <i>Geophysical Journal International</i> , 2012, 189, 1457-1474.	2.4	39
11	Informing a hydrological model of the Ogooua with multi-mission remote sensing data. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1453-1472.	4.9	37
12	Evaluation of multi-mode CryoSat-2 altimetry data over the Po River against in situ data and a hydrodynamic model. <i>Advances in Water Resources</i> , 2018, 112, 17-26.	3.8	36
13	Vertical and horizontal surface displacements near Jakobshavn Isbr� driven by melt-induced and dynamic ice loss. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 1837-1844.	3.4	32
14	Influence of local geoid variation on water surface elevation estimates derived from multi-mission altimetry for Lake Namco. <i>Remote Sensing of Environment</i> , 2019, 221, 65-79.	11.0	31
15	Potentials and limitations of Sentinel-3 for river discharge assessment. <i>Advances in Space Research</i> , 2021, 68, 593-606.	2.6	30
16	Evaluation of a Statistical Approach for Extracting Shallow Water Bathymetry Signals from ICESat-2 ATL03 Photon Data. <i>Remote Sensing</i> , 2021, 13, 3548.	4.0	30
17	Recurring dynamically induced thinning during 1985 to 2010 on Upernavik Isstr�m, West Greenland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 111-121.	2.8	27
18	Hydrological Applications of Satellite Altimetry Rivers, Lakes, Man-Made Reservoirs, Inundated Areas. , 2017, , 459-504.		27

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19	CryoSat Ice Baseline-D validation and evolutions. Cryosphere, 2020, 14, 1889-1907.	3.9	26
20	Improving the Coastal Mean Dynamic Topography by Geodetic Combination of Tide Gauge and Satellite Altimetry. Marine Geodesy, 2018, 41, 517-545.	2.0	23
21	The Performance and Potentials of the CryoSat-2 SAR and SARIn Modes for Lake Level Estimation. Water (Switzerland), 2017, 9, 374.	2.7	20
22	A Bigger Picture of how the Tibetan Lakes Have Changed Over the Past Decade Revealed by CryoSat-2 Altimetry. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033161.	3.3	20
23	On the Performance of Sentinel-3 Altimetry Over New Reservoirs: Approaches to Determine Onboard A Priori Elevation. Geophysical Research Letters, 2020, 47, e2020GL088770.	4.0	19
24	Crustal uplift due to ice mass variability on Upernavik Isstrøm, west Greenland. Earth and Planetary Science Letters, 2012, 353-354, 182-189.	4.4	18
25	River Levels Derived with CryoSat-2 SAR Data Classification—A Case Study in the Mekong River Basin. Remote Sensing, 2017, 9, 1238.	4.0	17
26	Validation of Sentinel-3A Based Lake Level over US and Canada. Remote Sensing, 2020, 12, 2835.	4.0	16
27	River levels from multi mission altimetry, a statistical approach. Remote Sensing of Environment, 2022, 270, 112876.	11.0	12
28	Ice-dammed lake drainage in west Greenland: Drainage pattern and implications on ice flow and bedrock motion. Geophysical Research Letters, 2017, 44, 7320-7327.	4.0	8
29	Hydraulic Model Calibration Using CryoSat-2 Observations in the Zambezi Catchment. Water Resources Research, 2021, 57, e2020WR029261.	4.2	7
30	On the Contribution of Satellite Altimetry-Derived Water Surface Elevation to Hydrodynamic Model Calibration in the Han River. Remote Sensing, 2020, 12, 4087.	4.0	6
31	Synergy between Satellite Altimetry and Optical Water Quality Data towards Improved Estimation of Lakes Ecological Status. Remote Sensing, 2021, 13, 770.	4.0	5
32	Estimating Reservoir Release Using Multi-Source Satellite Datasets and Hydrological Modeling Techniques. Remote Sensing, 2022, 14, 815.	4.0	3
33	Towards Constraining Glacial Isostatic Adjustment in Greenland Using ICESat and GPS Observations. International Association of Geodesy Symposia, 2014, , 325-331.	0.4	1
34	Multi-Mission Remote Sensing Observations for Optimizing Hydrological Hazard Predictions. , 2021, , .		0