

# Peter Toose

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7464120/publications.pdf>

Version: 2024-02-01

26  
papers

639  
citations

567144

15  
h-index

580701

25  
g-index

30  
all docs

30  
docs citations

30  
times ranked

780  
citing authors

#	ARTICLE	IF	CITATIONS
1	Snow density and ground permittivity retrieved from L-band radiometry: Application to experimental data. <i>Remote Sensing of Environment</i> , 2016, 180, 377-391.	4.6	60
2	Snow Density and Ground Permittivity Retrieved from L-Band Radiometry: A Synthetic Analysis. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 3833-3845.	2.3	59
3	Population vulnerability to climate change linked to timing of breeding in boreal ducks. <i>Global Change Biology</i> , 2012, 18, 480-492.	4.2	52
4	Response of L-Band brightness temperatures to freeze/thaw and snow dynamics in a prairie environment from ground-based radiometer measurements. <i>Remote Sensing of Environment</i> , 2017, 191, 67-80.	4.6	50
5	A Comparison of Airborne Microwave Brightness Temperatures and Snowpack Properties Across the Boreal Forests of Finland and Western Canada. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009, 47, 965-978.	2.7	38
6	Simulating seasonally and spatially varying snow cover brightness temperature using HUT snow emission model and retrieval of a microwave effective grain size. <i>Remote Sensing of Environment</i> , 2015, 156, 71-95.	4.6	37
7	The influence of snow microstructure on dual-frequency radar measurements in a tundra environment. <i>Remote Sensing of Environment</i> , 2018, 215, 242-254.	4.6	37
8	Capturing agricultural soil freeze/thaw state through remote sensing and ground observations: A soil freeze/thaw validation campaign. <i>Remote Sensing of Environment</i> , 2018, 211, 59-70.	4.6	36
9	Evaluation of Operation IceBridge quick-look snow depth estimates on sea ice. <i>Geophysical Research Letters</i> , 2015, 42, 9302-9310.	1.5	30
10	Local-scale variability of snow density on Arctic sea ice. <i>Cryosphere</i> , 2020, 14, 4323-4339.	1.5	28
11	Observing Scattering Mechanisms of Bubbled Freshwater Lake Ice Using Polarimetric RADARSAT-2 (C-Band) and UW-Scat (X- and Ku-Bands). <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 2887-2903.	2.7	27
12	Snow stratigraphic heterogeneity within ground-based passive microwave radiometer footprints: Implications for emission modeling. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 550-565.	1.0	24
13	Effect of snow microstructure variability on Ku-band radar snow water equivalent retrievals. <i>Cryosphere</i> , 2019, 13, 3045-3059.	1.5	23
14	Observations of late winter Canadian tundra snow cover properties. <i>Hydrological Processes</i> , 2014, 28, 3962-3977.	1.1	22
15	Evaluation of the HUT modified snow emission model over lake ice using airborne passive microwave measurements. <i>Remote Sensing of Environment</i> , 2011, 115, 233-244.	4.6	19
16	L-Band response to freeze/thaw in a boreal forest stand from ground- and tower-based radiometer observations. <i>Remote Sensing of Environment</i> , 2020, 237, 111542.	4.6	16
17	Spatial Variability of L-Band Brightness Temperature during Freeze/Thaw Events over a Prairie Environment. <i>Remote Sensing</i> , 2017, 9, 894.	1.8	13
18	L-band radiometry freeze/ thaw validation using air temperature and ground measurements. <i>Remote Sensing Letters</i> , 2018, 9, 403-410.	0.6	13

#	ARTICLE	IF	CITATIONS
19	Frequency and distribution of winter melt events from passive microwave satellite data in the pan-Arctic, 1988–2013. <i>Cryosphere</i> , 2016, 10, 2589-2602.	1.5	12
20	Modeling the Observed Microwave Emission from Shallow Multi-Layer Tundra Snow Using DMRT-ML. <i>Remote Sensing</i> , 2017, 9, 1327.	1.8	10
21	Modelling the L-Band Snow-Covered Surface Emission in a Winter Canadian Prairie Environment. <i>Remote Sensing</i> , 2018, 10, 1451.	1.8	8
22	Brief communication: Improved measurement of ice layer density in seasonal snowpacks. <i>Cryosphere</i> , 2016, 10, 2069-2074.	1.5	7
23	Plot-scale assessment of soil freeze/thaw detection and variability with impedance probes: implications for remote sensing validation networks. <i>Hydrology Research</i> , 2018, 49, 1-16.	1.1	7
24	Radio-frequency interference mitigating hyperspectral L-band radiometer. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2017, 6, 39-51.	0.6	6
25	Investigating the Influence of Variable Freshwater Ice Types on Passive and Active Microwave Observations. <i>Remote Sensing</i> , 2017, 9, 1242.	1.8	5
26	Use of L-Band Ground-Based Radiometers for Freeze/Thaw Retrieval in A Boreal Forest Site. , 2018, , .		0