

# Dustin Isleifson

## List of Publications by Year in descending order

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48  
papers

372  
citations

840776

11  
h-index

839539

18  
g-index

48  
all docs

48  
docs citations

48  
times ranked

323  
citing authors

#	ARTICLE	IF	CITATIONS
1	C-Band Polarimetric Backscattering Signatures of Newly Formed Sea Ice During Fall Freeze-Up. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 3256-3267.	6.3	49
2	Parameterization of Centimeter-Scale Sea Ice Surface Roughness Using Terrestrial LiDAR. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1271-1286.	6.3	32
3	A Study on the C-Band Polarimetric Scattering and Physical Characteristics of Frost Flowers on Experimental Sea Ice. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1787-1798.	6.3	31
4	Dual-Polarization C-Band Radar Observations of Sea Ice in the Amundsen Gulf. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2685-2691.	6.3	29
5	Imaged brine inclusions in young sea ice—Shape, distribution and formation timing. Cold Regions Science and Technology, 2015, 111, 39-48.	3.5	26
6	Modeling and Measurement of C-Band Radar Backscatter From Snow-Covered First-Year Sea Ice. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4063-4078.	6.3	20
7	Effect of dissolution, evaporation, and photooxidation on crude oil chemical composition, dielectric properties and its radar signature in the Arctic environment.. Marine Pollution Bulletin, 2020, 151, 110629.	5.0	17
8	Oil behavior in sea ice: Changes in chemical composition and resultant effect on sea ice dielectrics. Marine Pollution Bulletin, 2019, 142, 216-233.	5.0	16
9	Proof of Concept for Sea Ice Stage of Development Classification Using Deep Learning. Remote Sensing, 2020, 12, 2486.	4.0	16
10	A Monte Carlo Method for Simulating Scattering From Sea Ice Using FVTD. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 2658-2668.	6.3	14
11	Detection and classification of surface roughness in an Arctic marginal sea ice zone. Hydrological Processes, 2014, 28, 599-609.	2.6	13
12	C-Band Scatterometer Measurements of Multiyear Sea Ice Before Fall Freeze-Up in the Canadian Arctic. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1651-1661.	6.3	11
13	Photooxidation and biodegradation potential of a light crude oil in first-year sea ice. Marine Pollution Bulletin, 2021, 165, 112154.	5.0	10
14	A study on the design of dual-band perforated microstrip antennas for SAR applications. , 2012, , .		8
15	Toward the Detection of Oil Spills in Newly Formed Sea Ice Using C-Band Multipolarization Radar. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	8
16	Investigations into Frost Flower Physical Characteristics and the C-Band Scattering Response. Remote Sensing, 2018, 10, 991.	4.0	7
17	Capacitively Coupled Single-Layer Dual-Band Circularly Polarized GPS Ring Antennas. , 2021, , .		6
18	The Influence of Surface Sediment Presence on Observed Passive Microwave Brightness Temperatures of First-Year Sea Ice during the Summer Melt Period. Canadian Journal of Remote Sensing, 2019, 45, 333-349.	2.4	5

#	ARTICLE	IF	CITATIONS
19	Multi-scale observations of the co-evolution of sea ice thermophysical properties and microwave brightness temperatures during the summer melt period in Hudson Bay. <i>Elementa</i> , 2020, 8, .	3.2	5
20	Investigation into the geometry and distribution of oil inclusions in sea ice using non-destructive X-ray microtomography and its implications for remote sensing and mitigation potential. <i>Marine Pollution Bulletin</i> , 2021, 173, 112996.	5.0	5
21	2-In-1 smart panels: Embedding phased array patch antennas within satellite structures. <i>Acta Astronautica</i> , 2020, 175, 51-56.	3.2	4
22	Bandwidth Improvement of Transparent Meshed Patch Antennas Using Stacking Technique. , 2021, , .		4
23	Modeling Backscatter from Oil-Contaminated Sea Ice using a Multi-layered Scattering Model. , 2020, , .		4
24	Numerical scattering from 3D randomly rough surfaces using FVTD. , 2011, , .		3
25	Examining the physical processes of corn oil (medium crude oil surrogate) in sea ice and its resultant effect on complex permittivity and normalized radar cross-section. <i>Marine Pollution Bulletin</i> , 2019, 142, 484-493.	5.0	3
26	C-band Backscatter of Oil-polluted New Sea Ice in a Mesocosm. , 2021, , .		3
27	Methods for Interpreting the Partitioning and Fate of Petroleum Hydrocarbons in a Sea Ice Environment. <i>Journal of Physical Chemistry A</i> , 2022, 126, 772-786.	2.5	3
28	Modeling Normalized Radar Cross-Section of Oil-contaminated Sea Ice with Small Perturbation Method. , 2021, , .		2
29	Design of Short Backfire Antennas for Remote Sensing Applications. , 2021, , .		2
30	Truncated and Suspended Microstrip Patch Antennas Over an EBG Ground Plane. , 2021, , .		2
31	Fabrication of an Embedded Multifunctional Structural Antenna for Spacecraft Applications. , 2021, , .		2
32	Excessive Aperture Efficiency of Compact Antennas Demonstrated by Waveguides and Small Horns. , 2021, , .		2
33	Development of Dielectric Measurement Techniques for Arctic Oil Spill Studies. , 2020, , .		2
34	An SU-8/Glass Meshed Patch Antenna for Integration with Solar Cells. , 2022, , .		2
35	Numerical homogenization of heterogeneous media using FVTD simulations. , 2010, , .		1
36	In Situ Passive Microwave and UAV Observations of Early Summer Sea Ice. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
37	Split Ring Loaded Dual-polarized Dielectric Resonator Antennas. , 2019, , .		1
38	Frequency Scalability of Dual-polarized Flat-wire Open Loop Antennas. , 2021, , .		1
39	A Triangularly Packed Planar Array of Dual-polarized L-band Flat-wire Open Loop Antennas. , 2021, , .		1
40	Performance Improvement of a Microstrip Patch Antenna on an EBG Structure. , 2020, , .		1
41	Numerical rough surface scattering simulations using the FVTD method. , 2012, , .		0
42	Polarimetric scatterometer measurements at the Sea-ice Environmental Research Facility. , 2013, , .		0
43	Towards the Implementation of a Dual-Frequency Dual-Polarization Stacked Patch Array. , 2018, , .		0
44	Design and Test of a Dual-Frequency Dual-Polarization Microstrip Patch Array Prototype. , 2018, , .		0
45	A framework for coupling thermodynamic and backscatter models toward the estimation of Arctic sea ice, snow on sea ice, and snow brine volume. , 2021, , .		0
46	On Method of Moments Modelling of Realistic Antennas Radiation For Remote Sensing of Sea Ice. , 2021, , .		0
47	A Microstrip Patch Antenna Over an EBG Ground Plane and Covered with Partially Reflecting Surface. , 2021, , .		0
48	Dual-polarized L-band Flat-wire Open Loop Antenna. , 2020, , .		0