

# Dustin Isleifson

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Methods for Interpreting the Partitioning and Fate of Petroleum Hydrocarbons in a Sea Ice Environment. Journal of Physical Chemistry A, 2022, 126, 772-786.	2.5	3
3	An SU-8/Glass Meshed Patch Antenna for Integration with Solar Cells. , 2022, , .		2
4	Photooxidation and biodegradation potential of a light crude oil in first-year sea ice. Marine Pollution Bulletin, 2021, 165, 112154.	5.0	10
5	Modeling Normalized Radar Cross-Section of Oil-contaminated Sea Ice with Small Perturbation Method. , 2021, , .		2
6	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
7	C-band Backscatter of Oil-polluted New Sea Ice in a Mesocosm. , 2021, , .		3
8	Design of Short Backfire Antennas for Remote Sensing Applications. , 2021, , .		2
9	Truncated and Suspended Microstrip Patch Antennas Over an EBG Ground Plane. , 2021, , .		2
10	Fabrication of an Embedded Multifunctional Structural Antenna for Spacecraft Applications. , 2021, , .		2
11	On Method of Moments Modelling of Realistic Antennas Radiation For Remote Sensing of Sea Ice. , 2021, , .		0
12	A Microstrip Patch Antenna Over an EBG Ground Plane and Covered with Partially Reflecting Surface. , 2021, , .		0
13	Bandwidth Improvement of Transparent Meshed Patch Antennas Using Stacking Technique. , 2021, , .		4
14	Capacitively Coupled Single-Layer Dual-Band Circularly Polarized GPS Ring Antennas. , 2021, , .		6
15	Excessive Aperture Efficiency of Compact Antennas Demonstrated by Waveguides and Small Horns. , 2021, , .		2
16	Frequency Scalability of Dual-polarized Flat-wire Open Loop Antennas. , 2021, , .		1
17	A Triangularly Packed Planar Array of Dual-polarized L-band Flat-wire Open Loop Antennas. , 2021, , .		1
18	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. Marine Pollution Bulletin, 2021, 173, 112996.	5.0	5

#	ARTICLE	IF	CITATIONS
19	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
20	Proof of Concept for Sea Ice Stage of Development Classification Using Deep Learning. Remote Sensing, 2020, 12, 2486.	4.0	16
21	2-In-1 smart panels: Embedding phased array patch antennas within satellite structures. Acta Astronautica, 2020, 175, 51-56.	3.2	4
22	Multi-scale observations of the co-evolution of sea ice thermophysical properties and microwave brightness temperatures during the summer melt period in Hudson Bay. Elementa, 2020, 8, .	3.2	5
23	Dual-polarized L-band Flat-wire Open Loop Antenna. , 2020, , .		0
24	Performance Improvement of a Microstrip Patch Antenna on an EBG Structure. , 2020, , .		1
25	Development of Dielectric Measurement Techniques for Arctic Oil Spill Studies. , 2020, , .		2
26	Modeling Backscatter from Oil-Contaminated Sea Ice using a Multi-layered Scattering Model. , 2020, , .		4
27	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
28	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. Marine Pollution Bulletin, 2019, 142, 484-493.	5.0	3
29	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
30	Split Ring Loaded Dual-polarized Dielectric Resonator Antennas. , 2019, , .		1
31	Towards the Implementation of a Dual-Frequency Dual-Polarization Stacked Patch Array. , 2018, , .		0
32	In Situ Passive Microwave and UAV Observations of Early Summer Sea Ice. , 2018, , .		1
33	Design and Test of a Dual-Frequency Dual-Polarization Microstrip Patch Array Prototype. , 2018, , .		0
34	Investigations into Frost Flower Physical Characteristics and the C-Band Scattering Response. Remote Sensing, 2018, 10, 991.	4.0	7
35	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
36	Imaged brine inclusions in young sea ice—Shape, distribution and formation timing. Cold Regions Science and Technology, 2015, 111, 39-48.	3.5	26

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	Detection and classification of surface roughness in an Arctic marginal sea ice zone. Hydrological Processes, 2014, 28, 599-609.	2.6	13
40	Polarimetric scatterometer measurements at the Sea-ice Environmental Research Facility. , 2013, , .		0
41	Numerical rough surface scattering simulations using the FVTD method. , 2012, , .		0
42	A study on the design of dual-band perforated microstrip antennas for SAR applications. , 2012, , .		8
43	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
44	Numerical scattering from 3D randomly rough surfaces using FVTD. , 2011, , .		3
45	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
46	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
47	Numerical homogenization of heterogeneous media using FVTD simulations. , 2010, , .		1
48	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