

# Fernando Rodriguez-Morales

## List of Publications by Year in descending order

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papers

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53  
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53  
docs citations

53  
times ranked

898  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced Multifrequency Radar Instrumentation for Polar Research. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2824-2842.	6.3	179
2	An ultra-wideband, microwave radar for measuring snow thickness on sea ice and mapping near-surface internal layers in polar firn. Journal of Glaciology, 2013, 59, 244-254.	2.2	100
3	High-Altitude Radar Measurements of Ice Thickness Over the Antarctic and Greenland Ice Sheets as a Part of Operation IceBridge. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 742-754.	6.3	63
4	Ice Sheet Bed Mapping With Airborne SAR Tomography. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3791-3802.	6.3	54
5	Ultrawideband FMCW Radar for Airborne Measurements of Snow Over Sea Ice and Land. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 834-843.	6.3	54
6	The Scientific Legacy of NASA's Operation IceBridge. Reviews of Geophysics, 2021, 59, e2020RG000712.	23.0	49
7	Radar images of the bed of the Greenland Ice Sheet. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	33
8	Airborne Measurements of Snow Thickness: Using ultrawide-band frequency-modulated-continuous-wave radars. IEEE Geoscience and Remote Sensing Magazine, 2017, 5, 57-76.	9.6	33
9	Multichannel Coherent Radar Depth Sounder for NASA Operation Ice Bridge. , 2010, , .		31
10	Linear chirp generator based on direct digital synthesis and frequency multiplication for airborne FMCW snow probing radar. , 2014, , .		31
11	Airborne fine-resolution UHF radar: an approach to the study of englacial reflections, firn compaction and ice attenuation rates. Journal of Glaciology, 2015, 61, 89-100.	2.2	27
12	CRISIS airborne radars and platforms for ice and snow sounding. Annals of Glaciology, 2020, 61, 58-67.	1.4	27
13	Identifying and Compensating for Phase Center Errors in Wing-Mounted Phased Arrays for Ice Sheet Sounding. IEEE Transactions on Antennas and Propagation, 2014, 62, 3416-3421.	5.1	23
14	A Modified Wideband Dipole Antenna for an Airborne VHF Ice-Penetrating Radar. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1435-1444.	4.7	22
15	Two-Frequency Radar Experiments for Sounding Glacier Ice and Mapping the Topography of the Glacier Bed. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 920-929.	6.3	21
16	Measurements of In-Flight Cross-Track Antenna Patterns of Radar Depth Sounder/Imager. IEEE Transactions on Antennas and Propagation, 2012, 60, 5669-5678.	5.1	20
17	Multichannel Wideband Synthetic Aperture Radar for Ice Sheet Remote Sensing: Development and the First Deployment in Antarctica. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 980-993.	4.9	17
18	A Polarization Reconfigurable Low-Profile Ultrawideband VHF/UHF Airborne Array for Fine-Resolution Sounding of Polar Ice Sheets. IEEE Transactions on Antennas and Propagation, 2015, 63, 4334-4341.	5.1	16

#	ARTICLE	IF	CITATIONS
19	An Improved UWB Microwave Radar for Very Long-Range Measurements of Snow Cover. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7761-7772.	4.7	16
20	Multi-channel and multi-polarization radar measurements around the NEEM site. Cryosphere, 2018, 12, 2689-2705.	3.9	14
21	HF/VHF Radar Sounding of Ice from Manned and Unmanned Airborne Platforms. Geosciences (Switzerland), 2018, 8, 182.	2.2	13
22	Effects of Vibration on a Wing-Mounted Ice-Sounding Antenna Array. IEEE Antennas and Propagation Magazine, 2014, 56, 41-52.	1.4	9
23	A Mobile, Multichannel, UWB Radar for Potential Ice Core Drill Site Identification in East Antarctica: Development and First Results. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 4836-4847.	4.9	8
24	Radar Systems for Ice and Snow Measurements Onboard Manned and Unmanned Aircraft. IEEE Latin America Transactions, 2018, 16, 2473-2480.	1.6	6
25	Wideband IF-Integrated Terahertz HEB Mixers: Modeling and Characterization. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 1140-1150.	4.6	5
26	A Compact, Reconfigurable, Multi-UWB Radar for Snow Thickness Evaluation and Altimetry: Development and Field Trials. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 6755-6765.	4.9	5
27	HEB heterodyne focal plane arrays: a terahertz technology for high sensitivity near-range security imaging systems. , 2005, , .		4
28	Imaging and spectroscopy at terahertz frequencies using hot electron bolometer technology. , 2006, , .		4
29	Radar ECHO sounding of russell glacier at 35 MHz using compact radar systems on small unmanned aerial vehicles. , 2017, , .		4
30	RADAR SOUNDER PLATFORMS AND SENSORS AT CRESIS. , 2018, , .		4
31	A UAS-based ultra-wideband radar system for soil moisture measurements. , 2018, , .		4
32	Characterization and Mitigation of RFI Signals in Radar Depth Sounder Data of Greenland Ice Sheet. IEEE Transactions on Electromagnetic Compatibility, 2013, 55, 1060-1067.	2.2	3
33	Brief communication: An empirical relation between center frequency and measured thickness for radar sounding of temperate glaciers. Cryosphere, 2021, 15, 2569-2574.	3.9	3
34	A VHF Radar for Deployment on a UAV for Basal Imaging of Polar Ice. , 2008, , .		2
35	A radar suite for ice sheet accumulation measurements and near-surface internal layer mapping. , 2009, , .		2
36	High-Throughput Phenotyping of Wheat Canopy Height Using Ultrawideband Radar: First Results. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	2

#	ARTICLE	IF	CITATIONS
37	Near-high frequency antenna for unmanned aerial system ice-penetrating radar. Microwave and Optical Technology Letters, 2022, 64, 1077-1083.	1.4	2
38	Multichannel UWB Microwave Radar Front-End for Fine-Resolution Measurements of Terrestrial Snow Cover. , 2021, , .		2
39	TREND: a low noise terahertz receiver user instrument for AST/RO at the South Pole. , 2003, , .		1
40	Portable temperate ice depth sounder radar (TIDSoR). , 2008, , .		1
41	Radar research at the University of Kansas. , 2017, , .		1
42	Broadband Dual-Polarized Planar Antennas for Radar With Printed Circuit Balun. , 2021, , .		1
43	NbN hot-electron bolometer receivers and focal plane arrays for the terahertz range. , 2004, , .		0
44	Highly Packaged Terahertz Down-Converter Modules Using 3-D Integration. IEEE Microwave and Wireless Components Letters, 2007, 17, 742-744.	3.2	0
45	Air-bridge-integrated stub filter for submillimeter wave applications. Microwave and Optical Technology Letters, 2009, 51, 1436-1439.	1.4	0
46	Corrections to "Wideband IF-Integrated Terahertz HEB Mixers: Modeling and Characterization" [May 10 1140-1150]. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 206-206.	4.6	0
47	Multi-node Network Based Control and Data Acquisition System for a VHF Radar Depth Sounder. , 2011, , .		0
48	Wideband imaging radar for cryospheric remote sensing. , 2014, , .		0
49	Nonparametric Array Manifold Calibration for Ice Sheet Tomography. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-20.	6.3	0