

Anthony Freeman

List of Publications by Year in descending order

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50
papers

4,021
citations

304743

22
h-index

302126

39
g-index

50
all docs

50
docs citations

50
times ranked

2843
citing authors

#	ARTICLE	IF	CITATIONS
1	A three-component scattering model for polarimetric SAR data. IEEE Transactions on Geoscience and Remote Sensing, 1998, 36, 963-973.	6.3	1,850
2	SAR calibration: an overview. IEEE Transactions on Geoscience and Remote Sensing, 1992, 30, 1107-1121.	6.3	346
3	Fitting a Two-Component Scattering Model to Polarimetric SAR Data From Forests. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 2583-2592.	6.3	175
4	Calibration of linearly polarized polarimetric SAR data subject to Faraday rotation. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 1617-1624.	6.3	149
5	The "Myth" of the minimum SAR antenna area constraint. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 320-324.	6.3	143
6	On the detection of Faraday rotation in linearly polarized L-band SAR backscatter signatures. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 1607-1616.	6.3	122
7	Satellite sensor requirements for monitoring essential biodiversity variables of coastal ecosystems. Ecological Applications, 2018, 28, 749-760.	3.8	116
8	SIR-C data quality and calibration results. IEEE Transactions on Geoscience and Remote Sensing, 1995, 33, 848-857.	6.3	94
9	Effect of Salinity on the Dielectric Properties of Geological Materials: Implication for Soil Moisture Detection by Means of Radar Remote Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 1674-1688.	6.3	89
10	Calibration of Stokes and scattering matrix format polarimetric SAR data. IEEE Transactions on Geoscience and Remote Sensing, 1992, 30, 531-539.	6.3	84
11	Ionospheric effects on SAR imaging: a numerical study. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 939-947.	6.3	71
12	Estimation of Soil Moisture and Faraday Rotation From Bare Surfaces Using Compact Polarimetry. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 3608-3615.	6.3	71
13	Imaging ionospheric inhomogeneities using spaceborne synthetic aperture radar. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	57
14	Ice Sheet Bed Mapping With Airborne SAR Tomography. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3791-3802.	6.3	54
15	Improved Range Ambiguity Performance in Quad-Pol SAR. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 349-356.	6.3	39
16	Polarimetric calibration of SIR-C using point and distributed targets. IEEE Transactions on Geoscience and Remote Sensing, 1995, 33, 858-866.	6.3	38
17	Polarization signatures of frozen and thawed forests of varying environmental state. IEEE Transactions on Geoscience and Remote Sensing, 1994, 32, 371-381.	6.3	37
18	A continental-scale mosaic of the Amazon basin using JERS-1 SAR. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 2638-2644.	6.3	37

#	ARTICLE	IF	CITATIONS
19	Quadpolarization SAR Calibration Using Target Reciprocity. Journal of Electromagnetic Waves and Applications, 1991, 5, 735-751.	1.6	36
20	A technique for measurement of spaceborne SAR antenna patterns using distributed targets. IEEE Transactions on Geoscience and Remote Sensing, 1995, 33, 100-114.	6.3	36
21	Radar images of the bed of the Greenland Ice Sheet. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	33
22	The Emerging Technological Revolution in Earth Observations. Bulletin of the American Meteorological Society, 2020, 101, E274-E285.	3.3	33
23	Cross-calibration experiment of JPL AIRSAR and truck-mounted polarimetric scatterometer. IEEE Transactions on Geoscience and Remote Sensing, 1994, 32, 975-985.	6.3	25
24	A new system model for radar polarimeters. IEEE Transactions on Geoscience and Remote Sensing, 1991, 29, 761-767.	6.3	21
25	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
26	The Impact of System Noise in Polarimetric SAR Imagery on Oil Spill Observations. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4194-4214.	6.3	20
27	Exploring our solar system with CubeSats and SmallSats: the dawn of a new era. CEAS Space Journal, 2020, 12, 491-502.	2.3	19
28	Mars orbital synthetic aperture radar: Obtaining geologic information from radar polarimetry. Journal of Geophysical Research, 2004, 109, .	3.3	18
29	Radar Sounding Through the Earth's Ionosphere at 45 MHz. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5833-5842.	6.3	18
30	Glaciers and Ice Sheets Mapping Orbiter concept. Journal of Geophysical Research, 2006, 111, .	3.3	17
31	The legacy of the SIR-C/X-SAR radar system: 25 years on. Remote Sensing of Environment, 2019, 231, 111255.	11.0	16
32	Ocean Measurements from Space in 2025. Oceanography, 2010, 23, 144-161.	1.0	16
33	Cross-calibration between airborne SAR sensors. IEEE Transactions on Geoscience and Remote Sensing, 1993, 31, 237-245.	6.3	14
34	Designing an Observing System to Study the Surface Biology and Geology (SBG) of the Earth in the 2020s. Journal of Geophysical Research G: Biogeosciences, 2023, 128, .	3.0	14
35	Study of Hypersaline Deposits and Analysis of Their Signature in Airborne and Spaceborne SAR Data: Example of Death Valley, California. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2581-2598.	6.3	13
36	Potentials of a compact polarimetric SAR system. , 2010, , .		11

#	ARTICLE	IF	CITATIONS
37	An application of the monopulse principle to determining elevation angles in SAR images. IEEE Transactions on Geoscience and Remote Sensing, 1994, 32, 616-625.	6.3	10
38	Interplanetary CubeSat missions. , 2021, , 85-121.		10
39	Imaging spectrometer emulates Landsat: A case study with Airborne Visible Infrared Imaging Spectrometer (AVIRIS) and Operational Land Imager (OLI) data. Remote Sensing of Environment, 2018, 215, 157-169.	11.0	8
40	VISAR: A next generation interferometric radar for venus exploration. , 2015, , .		7
41	Radar designs for the DESDynI mission. , 2009, , .		6
42	The Chott El Djerid, Tunisia: Observation and Discussion of a SAR Phase Signature Over Evaporitic Soils. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 5798-5806.	6.3	6
43	<title>Effects of Faraday rotation on backscatter signatures in SAR image data</title>. , 1997, 3120, 37.		5
44	Designing the design at JPL'S innovation foundary. Acta Astronautica, 2017, 137, 182-191.	3.2	5
45	On the design of spaceborne polarimetric SARs. , 2009, , .		4
46	S-Band smallsat InSAR constellation for surface deformation science. , 2017, , .		4
47	Global Ice Sheet Mapping Observatory: Airborne experiments. , 2009, , .		2
48	Genesis of a new NASA InSAR mission concept, and natural hazards applications. , 2007, , .		1
49	Next generation SAR demonstration on space station. , 1999, , .		0
50	SAR imagery applied to the monitoring of hyper-saline deposits: Death Valley example (CA). , 2009, , .		0