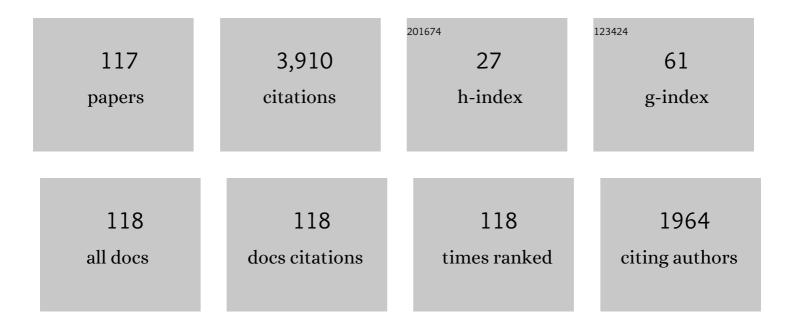
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Confocal microwave imaging for breast cancer detection: localization of tumors in three dimensions. IEEE Transactions on Biomedical Engineering, 2002, 49, 812-822.	4.2	740
2	Enhancing breast tumor detection with near-field imaging. IEEE Microwave Magazine, 2002, 3, 48-56.	0.8	491
3	Microwave Breast Imaging With a Monostatic Radar-Based System: A Study of Application to Patients. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2119-2128.	4.6	349
4	Balanced Antipodal Vivaldi Antenna With Dielectric Director for Near-Field Microwave Imaging. IEEE Transactions on Antennas and Propagation, 2010, 58, 2318-2326.	5.1	334
5	Tissue Sensing Adaptive Radar for Breast Cancer Detection—Experimental Investigation of Simple Tumor Models. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 3312-3319.	4.6	221
6	Experimental feasibility study of confocal microwave imaging for breast tumor detection. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 887-892.	4.6	127
7	Microwave Imaging of the Breast. Technology in Cancer Research and Treatment, 2005, 4, 69-82.	1.9	83
8	Modeling assemblies of biological cells exposed to electric fields. IEEE Transactions on Biomedical Engineering, 1998, 45, 1259-1271.	4.2	75
9	Tissue sensing adaptive radar for breast cancer detection: study of immersion liquids. Electronics Letters, 2005, 41, 113.	1.0	72
10	Stable and Flexible Materials to Mimic the Dielectric Properties of Human Soft Tissues. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 599-602.	4.0	66
11	A New Breast Phantom With a Durable Skin Layer for Microwave Breast Imaging. IEEE Transactions on Antennas and Propagation, 2015, 63, 1693-1700.	5.1	66
12	Evaluation of Image Reconstruction Algorithms for Confocal Microwave Imaging: Application to Patient Data. Sensors, 2018, 18, 1678.	3.8	62
13	BREAST IMAGING USING MICROWAVE TOMOGRAPHY WITH RADAR-BASED TISSUE-REGIONS ESTIMATION. Progress in Electromagnetics Research, 2014, 149, 161-171.	4.4	53
14	Dielectric-filled slotline bowtie antenna for breast cancer detection. Electronics Letters, 2005, 41, 388.	1.0	45
15	Laser Surface Estimation for Microwave Breast Imaging Systems. IEEE Transactions on Biomedical Engineering, 2011, 58, 1193-1199.	4.2	44
16	Breast Surface Estimation for Radar-Based Breast Imaging Systems. IEEE Transactions on Biomedical Engineering, 2008, 55, 1678-1686.	4.2	43
17	Exploring Joint Tissues With Microwave Imaging. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 2307-2313.	4.6	43
18	Guest Editorial: Special Cluster on Microwave Medical Imaging. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1592-1597.	4.0	41

#	Article	IF	CITATIONS
19	Incorporation of Ultrasonic Prior Information for Improving Quantitative Microwave Imaging of Breast. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2019, 4, 98-110.	2.2	39
20	System for Bulk Dielectric Permittivity Estimation of Breast Tissues at Microwave Frequencies. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 3001-3009.	4.6	38
21	Integrating prior information into microwave tomography Part 1: Impact of detail on image quality. Medical Physics, 2017, 44, 6461-6481.	3.0	38
22	Crossâ€Vivaldi antenna for breast tumor detection. Microwave and Optical Technology Letters, 2009, 51, 275-280.	1.4	37
23	Measurement and Analysis of Microwave Frequency Signals Transmitted through the Breast. International Journal of Biomedical Imaging, 2012, 2012, 1-11.	3.9	36
24	Shielded UWB Sensor for Biomedical Applications. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1614-1617.	4.0	30
25	Proof-of-Concept of the Incorporation of Ultrasound-Derived Structural Information Into Microwave Radar Imaging. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2018, 3, 129-139.	2.2	29
26	Engineering Approaches to Assessing Hydration Status. IEEE Reviews in Biomedical Engineering, 2018, 11, 233-248.	18.0	28
27	Tumor Response Estimation in Radar-Based Microwave Breast Cancer Detection. IEEE Transactions on Biomedical Engineering, 2008, 55, 2801-2811.	4.2	27
28	Regional estimation of the dielectric properties of inhomogeneous objects using near-field reflection data. Inverse Problems, 2012, 28, 075001.	2.0	27
29	Evaluation of 3-D Acquisition Surfaces for Radar-Based Microwave Breast Imaging. IEEE Transactions on Antennas and Propagation, 2015, 63, 4910-4920.	5.1	27
30	Contact Geometry Affects Lesion Formation in Radio-Frequency Cardiac Catheter Ablation. PLoS ONE, 2013, 8, e73242.	2.5	26
31	Conformal and Disposable Antenna-Based Sensor for Non-Invasive Sweat Monitoring. Sensors, 2018, 18, 4088.	3.8	26
32	Estimating the Effective Permittivity for Reconstructing Accurate Microwave-Radar Images. PLoS ONE, 2016, 11, e0160849.	2.5	26
33	NEIGHBORHOOD-BASED ALGORITHM TO FACILITATE THE REDUCTION OF SKIN REFLECTIONS IN RADAR-BASED MICROWAVE IMAGING. Progress in Electromagnetics Research B, 2012, 39, 115-139.	1.0	25
34	Surface Estimation for Microwave Imaging. Sensors, 2017, 17, 1658.	3.8	25
35	Integrating prior information into microwave tomography part 2: Impact of errors in prior information on microwave tomography image quality. Medical Physics, 2017, 44, 6482-6503.	3.0	23
36	Automated 3D method for the construction of flexible and reconfigurable numerical breast models from MRI scans. Medical and Biological Engineering and Computing, 2018, 56, 1027-1040.	2.8	20

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37	An Improved Technique to Predict the Time-of-Arrival of a Tumor Response in Radar-Based Breast Imaging. IEEE Transactions on Biomedical Engineering, 2009, 56, 1200-1208.	4.2	19
38	Average Dielectric Property Analysis of Complex Breast Tissue with Microwave Transmission Measurements. Sensors, 2015, 15, 1199-1216.	3.8	19
39	Adaptive Monostatic System for Measuring Microwave Reflections from the Breast. Sensors, 2018, 18, 1340.	3.8	19
40	Antenna Evaluation for Ultra-Wideband Microwave Imaging. International Journal of Antennas and Propagation, 2010, 2010, 1-8.	1.2	17
41	Technique to Decompose Near-Field Reflection Data Generated From an Object Consisting of Thin Dielectric Layers. IEEE Transactions on Antennas and Propagation, 2012, 60, 3684-3692.	5.1	17
42	Defining regions of interest for microwave imaging using near-field reflection data. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2137-2145.	4.6	16
43	An Analysis of the Assumptions Inherent to Near-Field Beamforming for Biomedical Applications. IEEE Transactions on Computational Imaging, 2017, 3, 953-965.	4.4	16
44	Design of dielectric immersed tapered slotline antenna for radarâ€based microwave breast imaging. Microwave and Optical Technology Letters, 2009, 51, 633-638.	1.4	14
45	Feasibility Study of Hydration Monitoring Using Microwaves–Part 1: A Model of Microwave Property Changes With Dehydration. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2019, 3, 292-299.	3.4	14
46	Microwave imaging of the knee: On sensitivity, resolution and multiple tears detection , 2009, , .		12
47	Study of the Dielectric Properties of Artificial Sweat Mixtures at Microwave Frequencies. Biosensors, 2020, 10, 62.	4.7	12
48	TEM horn antenna for nearâ€field microwave imaging. Microwave and Optical Technology Letters, 2010, 52, 1164-1170.	1.4	11
49	Safety assessment of ultraâ€wideband antennas for microwave breast imaging. Bioelectromagnetics, 2012, 33, 215-225.	1.6	11
50	A Picosecond Pulse generator Using SRD diodes: Design, Analysis, and Measurements. , 2018, , .		11
51	Metrics for Assessing the Similarity of Microwave Breast Imaging Scans of Healthy Volunteers. IEEE Transactions on Medical Imaging, 2018, 37, 1788-1798.	8.9	10
52	Anthropomorphic breast model repository for research and development of microwave breast imaging technologies. Scientific Data, 2018, 5, 180257.	5.3	10
53	Feasibility Study of Hydration Monitoring Using Microwaves–Part 2: Measurements of Athletes. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2019, 3, 300-307.	3.4	10

Reduction of skin reflections in radar-based microwave breast imaging. , 2008, 2008, 21-4.

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#	Article	IF	CITATIONS
55	Microwave imaging of the knee: Application to ligaments and tendons. , 2009, , .		8
56	An Institutional Self-Study of Text-Matching Software in a Canadian Graduate-Level Engineering Program. Journal of Academic Ethics, 2020, 18, 263-282.	2.2	8
57	<title>Microwave detection of breast tumors: comparison of skin subtraction algorithms</title> . , 2000, 4129, 207.		7
58	EXTRACTION OF INTERNAL SPATIAL FEATURES OF INHOMOGENEOUS DIELECTRIC OBJECTS USING NEAR-FIELD REFLECTION DATA. Progress in Electromagnetics Research, 2012, 122, 197-221.	4.4	7
59	Biological tissues assesment using transmitted microwave signals. , 2014, , .		7
60	ANTENNA CALIBRATION METHOD FOR DIELECTRIC PROPERTY ESTIMATION OF BIOLOGICAL TISSUES AT MICROWAVE FREQUENCIES. Progress in Electromagnetics Research, 2017, 158, 73-87.	4.4	7
61	Average breast permittivity measurements: Preliminary results from current patient study. , 2016, , .		6
62	Microwave Hydration Monitoring: System Assessment Using Fasting Volunteers. Sensors, 2021, 21, 6949.	3.8	6
63	Breast tissue mimicking phantoms for combined ultrasound and microwave imaging. Physics in Medicine and Biology, 2021, 66, 245011.	3.0	6
64	Tissue sensing adaptive radar for breast cancer detection: skin outline creation on a complex simulated hemispherical breast model. , 2007, , .		5
65	Using X-Ray Mammograms to Assist in Microwave Breast Image Interpretation. International Journal of Biomedical Imaging, 2012, 2012, 1-11.	3.9	5
66	A skin response estimation and suppression technique for radar-based microwave breast imaging applications. , 2012, , .		5
67	Beamforming in the frequency domain with applications to microwave breast imaging. , 2014, , .		5
68	Dielectric permittivity estimation of biological tissues using sensor array technology. , 2015, , .		5
69	ANTENNA APERTURE LOCALIZATION FOR ARRIVAL TIME CORRECTION USING FIRST-BREAK. Progress in Electromagnetics Research B, 2015, 62, 105-120.	1.0	5
70	Evaluating Performance of Microwave Image Reconstruction Algorithms: Extracting Tissue Types with Segmentation Using Machine Learning. Journal of Imaging, 2021, 7, 5.	3.0	5
71	Tumor Estimation In Tissue Sensing Adaptive Radar (TSAR) Signals. , 2007, , .		4
72	Enhanced directivity of a tapered slot antenna for near-field imaging. , 2009, , .		4

Enhanced directivity of a tapered slot antenna for near-field imaging. , 2009, , . 72

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#	Article	IF	CITATIONS
73	Antenna performance for ultra-wideband microwave imaging. , 2009, , .		4
74	Semiautomated Multimodal Breast Image Registration. International Journal of Biomedical Imaging, 2012, 2012, 1-14.	3.9	4
75	Monitoring the heart with ultra-wideband microwave signals: evaluation with a semi-dynamic heart model. Biomedical Physics and Engineering Express, 2016, 2, 035011.	1.2	4
76	Estimating bulk dielectric properties of biological tissues at microwave frequencies. , 2016, , .		4
77	Tissue-Type Imaging for Ultrasound-Prior Microwave Inversion. , 2018, , .		4
78	Cathether contact geometry affects lesion formation in radio-frequency cardiac catheter ablation. , 2011, 2011, 243-6.		3
79	Immersion medium independent algorithm for breast microwave imaging. , 2015, , .		3
80	Evaluating the impact of breast model complexity on microwave imaging signals. , 2016, , .		3
81	Bulk permittivity variations in the human breast over the menstrual cycle. , 2017, , .		3
82	Microwave Imaging of the Breast: Consistency of Measurements Over Time. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2022, 6, 61-67.	3.4	3
83	Microwave Imaging for Monitoring Patients Post-Radiation Treatment: an initial investigation. , 2021, , .		3
84	Assessing Patient-Specific Microwave Breast Imaging in Clinical Case Studies. Sensors, 2021, 21, 8048.	3.8	3
85	Preliminary Investigation of Breast Tumor Detection Using Cross-Vivaldi Antenna. , 2005, 2005, 6691-4.		2
86	Robust approach to skin location estimation for radar-based breast imaging systems. , 2008, 2008, 5837-41.		2
87	Safety assessment of microwave breast imaging techniques: A comparison between two different approaches. , 2011, , .		2
88	Breast cancer imaging using microwave tomography with radar-derived prior information. , 2014, , .		2
89	Iterative refinement of fibroglandular region with microwave breast imaging. , 2015, , .		2
90	Near field radar imaging in the frequency domain with application to patient data. , 2015, , .		2

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91	Optimizing microwave-radar imaging parameters. , 2016, , .		2
92	An Inexpensive Ultrawideband Radar for High-Resolution Applications. , 2018, , .		2
93	Breast Imaging with Multiphysics Prior for Improved Tumour Detection and Localization. , 2018, , .		2
94	MWSegEval—An image analysis toolbox for microwave breast images. SoftwareX, 2021, 15, 100728.	2.6	2
95	Flexible Patch Antennas on Filter Paper Substrate for Biosensing Applications. , 2020, , .		2
96	A technique to predict the time-of-arrival of a tumor response corrupted by clutter. , 2008, 2008, 3520-5.		1
97	Estimation of regional geometric and spatially averaged dielectric properties of an object. , 2012, , .		1
98	Characterizing the point spread function of a near field ultrawideband monostatic radar imaging system. , 2013, , .		1
99	A time- and temperature-stable complex breast phantom for microwave breast imaging. , 2013, , .		1
100	A semi-dynamic heart model for UWB microwave transmission simulations and hardware evaluation. Biomedical Physics and Engineering Express, 2015, 1, 045005.	1.2	1
101	Average dielectric properties of the human breast from ultra wide band transmission measurements. , 2015, , .		1
102	Techniques for breast surface reconstruction with applications. , 2016, , .		1
103	Evaluating impact of errors in prior information on performance of microwave tomography. , 2016, , .		1
104	Immersion medium independent microwave breast imaging. , 2017, , .		1
105	DATA PRECONDITIONING WITH GABOR NONSTATIONARY DECONVOLUTION FOR RADAR IMAGING OF HIGHLY DISSIPATIVE AND DISPERSIVE MEDIA. Progress in Electromagnetics Research B, 2017, 72, 169-195.	1.0	1
106	New Resolution Enhancement Approach for Tissue Sensitive Adaptive Radar (TSAR). , 2021, , .		1
107	Data-adaptive filtering approach for microwave breast imaging: consistency of volunteer scans. , 2021, , ,		1
108	Tomographic Approach to Human Hydration Assessment: In Silico Proof-of-Concept. , 2021, , .		1

#	Article	IF	CITATIONS
109	A source wavelet deconvolution approach to improve the spatial resolution for radar-based breast imaging system. , 2013, , .		Ο
110	Estimating reflectivity by non-stationary deconvolution of ultra-wide band radar data: Application to microwave breast imaging. , 2014, , .		0
111	Development of axilla phantoms to aid breast cancer staging via sentinel lymph node detection. , 2014, , ,		Ο
112	Tumor tracking with microwave breast imaging using refined patient specific prior information. , 2015, , \cdot		0
113	Gabor deconvolution: Attenuation function estimation based on frequency-dependent Q. , 2015, , .		Ο
114	Supporting Advanced Breast Imaging Research Through Reconfigurable Numerical Breast Models. , 2018, , .		0
115	Can geophysical-inspired signal analysis sharpen the image of the brain's neural response to a task?. , 2018, , .		Ο
116	Fork-shape Wideband Monopoles for Microwave Imaging. , 2021, , .		0
117	Microwave Tomography for Hydration Assessment in Newborn Cattle: In Silico Proof of Concept. , 2022, , .		Ο