

# Maryam Ravan

## List of Publications by Year in descending order

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45  
papers

743  
citations

623734

14  
h-index

580821

25  
g-index

47  
all docs

47  
docs citations

47  
times ranked

558  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sizing of 3-D Arbitrary Defects Using Magnetic Flux Leakage Measurements. IEEE Transactions on Magnetics, 2010, 46, 1024-1033.	2.1	100
2	Three-Dimensional Near-Field Microwave Holography Using Reflected and Transmitted Signals. IEEE Transactions on Antennas and Propagation, 2011, 59, 4777-4789.	5.1	89
3	Two-dimensional near-field microwave holography. Inverse Problems, 2010, 26, 055011.	2.0	45
4	A machine learning approach using auditory odd-ball responses to investigate the effect of Clozapine therapy. Clinical Neurophysiology, 2015, 126, 721-730.	1.5	31
5	Canadian HF Over-the-Horizon Radar experiments using MIMO techniques to control auroral clutter. , 2010, , .		30
6	Removal of Probe Liftoff Effects on Crack Detection and Sizing in Metals by the AC Field Measurement Technique. IEEE Transactions on Magnetics, 2008, 44, 2066-2073.	2.1	29
7	A Fuzzy Learning Approach for Identification of Arbitrary Crack Profiles Using ACFM Technique. IEEE Transactions on Magnetics, 2013, 49, 5016-5027.	2.1	28
8	On Quantitative Biomarkers of VNS Therapy Using EEG and ECG Signals. IEEE Transactions on Biomedical Engineering, 2017, 64, 419-428.	4.2	28
9	Using AC field measurement data at an arbitrary liftoff distance to size long surface-breaking cracks in ferrous metals. NDT and E International, 2008, 41, 169-177.	3.7	25
10	Three-Dimensional Microwave Holographic Imaging Employing Forward-Scattered Waves Only. International Journal of Antennas and Propagation, 2013, 2013, 1-15.	1.2	25
11	A machine learning approach for distinguishing age of infants using auditory evoked potentials. Clinical Neurophysiology, 2011, 122, 2139-2150.	1.5	24
12	Investigating the correlation between short-term effectiveness of VNS Therapy in reducing the severity of seizures and long-term responsiveness. Epilepsy Research, 2017, 133, 46-53.	1.6	22
13	Nondestructive Testing of Nonmetallic Pipes Using Wideband Microwave Measurements. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1763-1772.	4.6	20
14	Investigating the Effect of Short Term Responsive VNS Therapy on Sleep Quality Using Automatic Sleep Staging. IEEE Transactions on Biomedical Engineering, 2019, 66, 3301-3309.	4.2	17
15	Three-Dimensional Holographic Imaging Using Single Frequency Microwave Data. International Journal of Antennas and Propagation, 2018, 2018, 1-14.	1.2	15
16	Advanced Signal Processing Methods for Characterization of Schizophrenia. IEEE Transactions on Biomedical Engineering, 2021, 68, 1123-1130.	4.2	15
17	Microwave Holographic Imaging of Nonmetallic Concentric Pipes. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7594-7605.	4.7	14
18	Holographic Near-Field Microwave Imaging With Antenna Arrays in a Cylindrical Setup. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 418-430.	4.6	14

#	ARTICLE	IF	CITATIONS
19	Fast fully adaptive processing: a multistage STAP approach. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 2168-2183.	4.7	13
20	Diagnosing Schizophrenia Using Effective Connectivity of Resting-State EEG Data. Algorithms, 2021, 14, 139.	2.1	12
21	A Machine Learning Approach Using Effective Connectivity to Predict Response to Clozapine Treatment. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2598-2607.	4.9	12
22	Minimum Variance Brain Source Localization for Short Data Sequences. IEEE Transactions on Biomedical Engineering, 2014, 61, 535-546.	4.2	11
23	Material Identification Using a Microwave Sensor Array and Machine Learning. Electronics (Switzerland), 2020, 9, 288.	3.1	10
24	MIMO fast fully adaptive processing in Over-the-Horizon Radar. , 2011, , .		8
25	Three-dimensional holographic imaging using data collected over cylindrical apertures. Microwave and Optical Technology Letters, 2019, 61, 907-911.	1.4	8
26	Quantitative biomarkers to predict response to clozapine treatment using resting EEG data. Schizophrenia Research, 2020, 223, 289-296.	2.0	8
27	Fast, Robust, and Low-Cost Microwave Imaging of Multiple Non-Metallic Pipes. Electronics (Switzerland), 2021, 10, 1762.	3.1	8
28	A machine learning approach using EEG signals to measure sleep quality. AIMS Electronics and Electrical Engineering, 2019, 3, 347-358.	1.5	8
29	Quantitative Defect Size Evaluation in Fluid-Carrying Nonmetallic Pipes. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 4071-4081.	4.6	7
30	Near-field microwave imaging based on planar aperture scanning. , 2010, , .		6
31	A machine learning approach using P300 responses to investigate effect of clozapine therapy. , 2012, 2012, 5911-4.		5
32	Near-Field Holographic Microwave Imaging Using Data Collected Over Cylindrical Apertures. , 2018, , .		5
33	Wearable Inductive Sensing of the Arm Joint: Comparison of Three Sensing Configurations. Magnetism, 2022, 2, 195-210.	1.5	5
34	Ionospheric clutter model for high frequency surface wave radar. , 2012, , .		4
35	Electromagnetic Induction Imaging at Multiple Depths With a Single Coil. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	4
36	Near-field microwave holographic imaging: Target localization and resolution study. , 2010, , .		3

#	ARTICLE	IF	CITATIONS
37	Modeling the received signal for the Canadian over-the-horizon-radar. , 2013, , .		3
38	Joint waveform optimization and adaptive processing for random-phase radar signals. , 2014, , .		3
39	Electromagnetic Induction Imaging of Metallic Objects at Multiple Depths. IEEE Magnetics Letters, 2020, 11, 1-5.	1.1	3
40	Robust STAP for HFSWR in dense target scenarios with nonhomogeneous clutter. , 2012, , .		2
41	Speech recognition from adaptive windowing PSD estimation. , 2011, , .		1
42	Microwave imaging for breast cancer diagnosis based on planar aperture scanning. , 2010, , .		0
43	Errata to "Three-Dimensional Near-Field Microwave Holography Using Reflected and Transmitted Signals" [Dec 11 4777-4789]. IEEE Transactions on Antennas and Propagation, 2012, 60, 425-425.	5.1	0
44	Computational 3D Imaging of Tissues Using Single Frequency Microwave Data. , 2018, , .		0
45	Fast and Robust Capacitive Imaging of Cylindrical Non-Metallic Media. Magnetism, 2021, 1, 60-69.	1.5	0