

# Mojtaba Dehmollaian

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/4283353/mojtaba-dehmollaian-publications-by-year.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69

papers

786

citations

13

h-index

26

g-index

90

ext. papers

961

ext. citations

3.9

avg, IF

4.59

L-index

#	Paper	IF	Citations
69	Analysis of wave scattering from 2D curved metasurfaces using Floquet and Fourier series expansions. <i>IET Microwaves, Antennas and Propagation</i> , <b>2021</b> , 15, 981	1.6	0
68	Transmission and reflection characteristics of a multi-layered wall with doubly periodic interfaces. <i>AEU - International Journal of Electronics and Communications</i> , <b>2020</b> , 117, 153087	2.8	
67	Localisation and permittivity extraction of an embedded cylinder using decomposition of the time reversal operator. <i>IET Microwaves, Antennas and Propagation</i> , <b>2020</b> , 14, 851-859	1.6	4
66	IE-GSTC Analysis of Metasurface Cavities and Application to Redirection Cloaking <b>2020</b> ,		1
65	Limitations of the Metasurface Diluted-Slab Model. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , <b>2020</b> , 5, 255-264	1.5	1
64	Efficient Method for Calculating the Shielding Effectiveness of Axisymmetric Multilayered Composite Enclosures. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2020</b> , 62, 218-228	2	1
63	Wave Scattering by a Cylindrical Metasurface Cavity of Arbitrary Cross Section: Theory and Applications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 4059-4072	4.9	23
62	A time-reversal imaging system for buried objects in layered media using complex images Green's functions. <i>AEU - International Journal of Electronics and Communications</i> , <b>2019</b> , 105, 1-8	2.8	1
61	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 7396-7406	4.9	5
60	Discrimination of Geological Top-Formations by their Morphology through SAR Images and via Fractal Geometry implementation in IEM Backscattering Model(Case Study: Zagros Thrust Belt). <i>Journal of Geospatial Information Technology</i> , <b>2019</b> , 7, 137-157	0.1	
59	Perfect Penetrable Cloaking Using Gain-Less and Loss-less Bianisotropic Metasurfaces <b>2019</b> ,		1
58	Scattered Fields of a 2-D Rectangular Room Composed of Cinder Block Walls Using Floquet-Fourier Series Expansion. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 390-399	4.9	2
57	Through a Cinder Block Wall Refocusing Using SAR Back Projection Method. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 1212-1222	4.9	4
56	A Time-Reversal Imaging System for Breast Screening: Theory and Initial Phantom Results. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2018</b> , 65, 2542-2551	5	14
55	Scattering by a Dielectric Sphere Buried in a Half-Space With a Slightly Rough Interface. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 347-359	4.9	8
54	A Method of Moments for Analysis of Electromagnetic Scattering From Inhomogeneous Anisotropic Bodies of Revolution. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 2976-2986	4.9	2
53	Improved discrimination of geological units via geomorphological classification of synthetic aperture radar images. <i>Journal of Applied Remote Sensing</i> , <b>2018</b> , 12, 1	1.4	1

52	An Iterative Modified Diffraction Tomography Method for Reconstruction of a High-Contrast Buried Object. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2018</b> , 56, 4138-4148	8.1	6
51	Buried Target Imaging: A Comparative Study. <i>Sensing and Imaging</i> , <b>2017</b> , 18, 1	1.4	2
50	A novel FDTD formulation to model dispersive chiral media <b>2017</b> ,		1
49	Measuring the surface roughness of geological rock surfaces in SAR data using fractal geometry. <i>Comptes Rendus - Geoscience</i> , <b>2017</b> , 349, 114-125	1.4	10
48	Imaging and permittivity variation record of an embedded dielectric cylinder using TR-DORT <b>2017</b> ,		1
47	Better Estimated IEM Input Parameters Using Random Fractal Geometry Applied on Multi-Frequency SAR Data. <i>Remote Sensing</i> , <b>2017</b> , 9, 445	5	4
46	Ultra-wideband electromagnetic space-frequency time reversal beamforming in a rectangular metal tube <b>2016</b> ,		1
45	Simultaneous Microwave Imaging and Parameter Estimation Using Modified Level-Set Method. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 3554-3564	4.9	3
44	Scattering From Layered Rough Surfaces: Analytical and Numerical Investigations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2016</b> , 54, 3685-3696	8.1	22
43	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2016</b> , 54, 3589-3598	8.1	6
42	Imaging Through a Wall With Corrugated Surfaces. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2016</b> , 1-5	4.1	0
41	Electromagnetic Time-Reversal Imaging of Pinholes in Pipes. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 1356-1363	4.9	14
40	Second-Order Perturbative Solution of Cross-Polarized Scattering From Multilayered Rough Surfaces. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 1877-1890	4.9	11
39	A Hybrid Quantitative Method for Inverse Scattering of Multiple Dielectric Objects. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 977-987	4.9	8
38	Ultra wideband electromagnetic DORT time-reversal localization of single-defect in pipe <b>2016</b> ,		1
37	Coplanar rotman lens and antipodal vivaldi antenna array for L- and S-band applications. <i>Microwave and Optical Technology Letters</i> , <b>2015</b> , 57, 1305-1308	1.2	3
36	Target Above Random Rough Surface Scattering Using a Parallelized IPO Accelerated by MLFMM. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2015</b> , 12, 1481-1485	4.1	11
35	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 5767-5776	4.9	9

34	Scattering From Two Rough Surfaces With Inhomogeneous Dielectric Profiles. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 5753-5766	4.9	12
33	Transmitted fields of a directional antenna in proximity of a wall. <i>IET Microwaves, Antennas and Propagation</i> , <b>2015</b> , 9, 176-184	1.6	
32	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2015</b> , 53, 3897-3905	8.1	13
31	Buried-Object Time-Reversal Imaging Using UWB Near-Ground Scattered Fields. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2014</b> , 52, 7317-7326	8.1	22
30	Three-Dimensional Near-Field Microwave Imaging Using Hybrid Linear Sampling and Level Set Methods in a Medium With Compact Support. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 5117-5125	4.9	12
29	Experimental Investigation of Factorization Method as a Qualitative Approach for Near-Field Microwave Imaging. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2014</b> , 13, 289-292	3.8	5
28	A Fast Semianalytical Solution of a 2-D Dielectric-Filled and Coated Rectangular Groove. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 5099-5107	4.9	21
27	A closed form formula for determining the depth of a filled rectangular crack <b>2014</b> ,		2
26	Buried object adaptive shape reconstruction and ground parameters estimation using differential evolution. <i>IET Microwaves, Antennas and Propagation</i> , <b>2013</b> , 7, 157-165	1.6	2
25	Modeling of the perfect electromagnetic conducting boundary in the finite difference time domain method. <i>Radio Science</i> , <b>2013</b> , 48, 453-462	1.4	8
24	Electric dipole radiation in proximity of a wall and a ground plane <b>2012</b> ,		1
23	Time-reversal imaging of underground targets using lateral waves <b>2012</b> ,		1
22	A Method for Cancellation of Clutter Due to an Object in Transceiver Side of a Wall for Through-Wall Sensing Applications. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2012</b> , 9, 559-563	4.1	6
21	PEMC-backed perfectly matched layer as a truncation boundary <b>2012</b> ,		2
20	Scattering of an object above a rough surface with impedance boundaries using IPO and FMM <b>2012</b> ,		2
19	A Feasibility Study on the Application of Radar Imaging for the Detection of Transformer Winding Radial Deformation. <i>IEEE Transactions on Power Delivery</i> , <b>2012</b> , 27, 2113-2121	4.3	17
18	Reflection From Stratified Media Backed by a Perfect Electromagnetic Conductor (PEMC). <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 4969-4973	4.9	8
17	A Printed Circularly Polarized Y-Shaped Monopole Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2012</b> , 11, 22-25	3.8	65

16	Implementation of a PEMC boundary condition in the 2-D FDTD technique <b>2012</b> ,		2
15	Analytical and numerical calculation of reflection from a stratified structure backed by a PEMC <b>2011</b> ,		3
14	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 2268-2279	4.9	20
13	Through-Wall Shape Reconstruction and Wall Parameters Estimation Using Differential Evolution. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2011</b> , 8, 201-205	4.1	26
12	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2009</b> , 47, 1289-1296	8.1	78
11	Optimum Polarizations for Discrimination of a Foliage-Camouflaged Target, Using Genetic Algorithms. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2009</b> , 6, 82-86	4.1	7
10	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2008</b> , 46, 1589-1599	8.1	214
9	An Approximate Solution of Scattering From Reinforced Concrete Walls. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2008</b> , 56, 2681-2690	4.9	10
8	Analytical, numerical, and experimental methods for through-the-wall radar imaging. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , <b>2008</b> ,	1.6	10
7	Refocusing through building walls using synthetic aperture radar <b>2007</b> ,		4
6	Refocusing through single layer building wall using synthetic aperture radar <b>2007</b> ,		1
5	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2006</b> , 44, 2072-2082	8.1	5
4	Simulation of Through-Wall Microwave Imaging: Forward and Inverse Models <b>2006</b> ,		1
3	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2006</b> , 44, 2698-2709	8.1	21
2	Hybrid FDTD and ray optics approximation for simulation of through-wall microwave imaging <b>2006</b> ,		3
1	Polarization discrimination for improving foliage-camouflaged target detection		1