Mojtaba Dehmollaian

List of Publications by Citations

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	. *IEEE Transactions on Geoscience and Remote Sensing*, **2008**, 46, 1589-1599	8.1	214
68	. *IEEE Transactions on Geoscience and Remote Sensing*, **2009**, 47, 1289-1296	8.1	78
67	A Printed Circularly Polarized Y-Shaped Monopole Antenna. *IEEE Antennas and Wireless Propagation Letters*, **2012**, 11, 22-25	3.8	65
66	Through-Wall Shape Reconstruction and Wall Parameters Estimation Using Differential Evolution. *IEEE Geoscience and Remote Sensing Letters*, **2011**, 8, 201-205	4.1	26
65	Wave Scattering by a Cylindrical Metasurface Cavity of Arbitrary Cross Section: Theory and Applications. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 4059-4072	4.9	23
64	Scattering From Layered Rough Surfaces: Analytical and Numerical Investigations. *IEEE Transactions on Geoscience and Remote Sensing*, **2016**, 54, 3685-3696	8.1	22
63	Buried-Object Time-Reversal Imaging Using UWB Near-Ground Scattered Fields. *IEEE Transactions on Geoscience and Remote Sensing*, **2014**, 52, 7317-7326	8.1	22
62	A Fast Semianalytical Solution of a 2-D Dielectric-Filled and Coated Rectangular Groove. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 5099-5107	4.9	21
61	. *IEEE Transactions on Geoscience and Remote Sensing*, **2006**, 44, 2698-2709	8.1	21
60	. *IEEE Transactions on Antennas and Propagation*, **2011**, 59, 2268-2279	4.9	20
59	A Feasibility Study on the Application of Radar Imaging for the Detection of Transformer Winding Radial Deformation. *IEEE Transactions on Power Delivery*, **2012**, 27, 2113-2121	4.3	17
58	A Time-Reversal Imaging System for Breast Screening: Theory and Initial Phantom Results. *IEEE Transactions on Biomedical Engineering*, **2018**, 65, 2542-2551	5	14
57	Electromagnetic Time-Reversal Imaging of Pinholes in Pipes. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 1356-1363	4.9	14
56	. *IEEE Transactions on Geoscience and Remote Sensing*, **2015**, 53, 3897-3905	8.1	13
55	Scattering From Two Rough Surfaces With Inhomogeneous Dielectric Profiles. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 5753-5766	4.9	12
54	Three-Dimensional Near-Field Microwave Imaging Using Hybrid Linear Sampling and Level Set Methods in a Medium With Compact Support. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 5117-5125	4.9	12
53	Target Above Random Rough Surface Scattering Using a Parallelized IPO Accelerated by MLFMM. *IEEE Geoscience and Remote Sensing Letters*, **2015**, 12, 1481-1485	4.1	11

52	Second-Order Perturbative Solution of Cross-Polarized Scattering From Multilayered Rough Surfaces. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 1877-1890	4.9	11
51	Measuring the surface roughness of geological rock surfaces in SAR data using fractal geometry. *Comptes Rendus - Geoscience*, **2017**, 349, 114-125	1.4	10
50	An Approximate Solution of Scattering From Reinforced Concrete Walls. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 2681-2690	4.9	10
49	Analytical, numerical, and experimental methods for through-the-wall radar imaging. *Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing*, **2008**,	1.6	10
48	. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 5767-5776	4.9	9
47	Scattering by a Dielectric Sphere Buried in a Half-Space With a Slightly Rough Interface. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 347-359	4.9	8
46	A Hybrid Quantitative Method for Inverse Scattering of Multiple Dielectric Objects. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 977-987	4.9	8
45	Modeling of the perfect electromagnetic conducting boundary in the finite difference time domain method. *Radio Science*, **2013**, 48, 453-462	1.4	8
44	Reflection From Stratified Media Backed by a Perfect Electromagnetic Conductor (PEMC). *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 4969-4973	4.9	8
43	Optimum Polarizations for Discrimination of a Foliage-Camouflaged Target, Using Genetic Algorithms. *IEEE Geoscience and Remote Sensing Letters*, **2009**, 6, 82-86	4.1	7
42	. *IEEE Transactions on Geoscience and Remote Sensing*, **2016**, 54, 3589-3598	8.1	6
41	A Method for Cancellation of Clutter Due to an Object in Transceiver Side of a Wall for Through-Wall Sensing Applications. *IEEE Geoscience and Remote Sensing Letters*, **2012**, 9, 559-563	4.1	6
40	An Iterative Modified Diffraction Tomography Method for Reconstruction of a High-Contrast Buried Object. *IEEE Transactions on Geoscience and Remote Sensing*, **2018**, 56, 4138-4148	8.1	6
39	. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 7396-7406	4.9	5
38	Experimental Investigation of Factorization Method as a Qualitative Approach for Near-Field Microwave Imaging. *IEEE Antennas and Wireless Propagation Letters*, **2014**, 13, 289-292	3.8	5
37	. *IEEE Transactions on Geoscience and Remote Sensing*, **2006**, 44, 2072-2082	8.1	5
36	Better Estimated IEM Input Parameters Using Random Fractal Geometry Applied on Multi-Frequency SAR Data. *Remote Sensing*, **2017**, 9, 445	5	4
35	Refocusing through building walls using synthetic aperture radar **2007**,		4

34	Localisation and permittivity extraction of an embedded cylinder using decomposition of the time reversal operator. *IET Microwaves, Antennas and Propagation*, **2020**, 14, 851-859	1.6	4
33	Through a Cinder Block Wall Refocusing Using SAR Back Projection Method. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 1212-1222	4.9	4
32	Coplanar rotman lens and antipodal vivaldi antenna array for L- and S-band applications. *Microwave and Optical Technology Letters*, **2015**, 57, 1305-1308	1.2	3
31	Simultaneous Microwave Imaging and Parameter Estimation Using Modified Level-Set Method. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 3554-3564	4.9	3
30	Analytical and numerical calculation of reflection from a stratified structure backed by a PEMC **2011**,		3
29	Hybrid FDTD and ray optics approximation for simulation of through-wall microwave imaging **2006**,		3
28	Buried Target Imaging: A Comparative Study. *Sensing and Imaging*, **2017**, 18, 1	1.4	2
27	A Method of Moments for Analysis of Electromagnetic Scattering From Inhomogeneous Anisotropic Bodies of Revolution. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 2976-2986	4.9	2
26	Buried object adaptive shape reconstruction and ground parameters estimation using differential evolution. *IET Microwaves, Antennas and Propagation*, **2013**, 7, 157-165	1.6	2
25	A closed form formula for determining the depth of a filled rectangular crack **2014**,		2
24	PEMC-backed perfectly matched layer as a truncation boundary **2012**,		2
23	Scattering of an object above a rough surface with impedance boundaries using IPO and FMM **2012** ,		2
22	Implementation of a PEMC boundary condition in the 2-D FDTD technique **2012**,		2
21	Scattered Fields of a 2-D Rectangular Room Composed of Cinder Block Walls Using Floquet–Fourier Series Expansion. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 390-399	4.9	2
20	A novel FDTD formulation to model dispersive chiral media **2017**,		1
19	A time-reversal imaging system for buried objects in layered media using complex images Green's functions. *AEU - International Journal of Electronics and Communications*, **2019**, 105, 1-8	2.8	1
18	Ultra-wideband electromagnetic space-frequency time reversal beamforming in a rectangular metal tube **2016**,		1
17	Imaging and permittivity variation record of an embedded dielectric cylinder using TR-DORT **2017**,		1

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16	Electric dipole radiation in proximity of a wall and a ground plane **2012**,		1
15	Time-reversal imaging of underground targets using lateral waves **2012**,		1
14	Refocusing through single layer building wall using synthetic aperture radar **2007**,		1
13	Simulation of Through-Wall Microwave Imaging: Forward and Inverse Models **2006**,		1
12	Polarization discrimination for improving foliage-camouflaged target detection		1
11	Improved discrimination of geological units via geomorphological classification of synthetic aperture radar images. *Journal of Applied Remote Sensing*, **2018**, 12, 1	1.4	1
10	IE-GSTC Analysis of Metasurface Cavities and Application to Redirection Cloaking **2020**,		1
9	Limitations of the Metasurface Diluted-Slab Model. *IEEE Journal on Multiscale and Multiphysics Computational Techniques*, **2020**, 5, 255-264	1.5	1
8	Ultra wideband electromagnetic DORT time-reversal localization of single-defect in pipe **2016**,		1
7	Perfect Penetrable Cloaking Using Gain-Less and Loss-less Bianisotropic Metasurfaces **2019**,		1
6	Efficient Method for Calculating the Shielding Effectiveness of Axisymmetric Multilayered Composite Enclosures. *IEEE Transactions on Electromagnetic Compatibility*, **2020**, 62, 218-228	2	1
5	Imaging Through a Wall With Corrugated Surfaces. *IEEE Geoscience and Remote Sensing Letters*, **2016**, 1-5	4.1	0
4	Analysis of wave scattering from 2D curved metasurfaces using Floquet and Fourier series expansions. *IET Microwaves, Antennas and Propagation*, **2021**, 15, 981	1.6	0
3	Transmission and reflection characteristics of a multi-layered wall with doubly periodic interfaces. *AEU - International Journal of Electronics and Communications*, **2020**, 117, 153087	2.8	
2	Transmitted fields of a directional antenna in proximity of a wall. *IET Microwaves, Antennas and Propagation*, **2015**, 9, 176-184	1.6	
1	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). *Journal of Geospatial Information Technology*, **2019**, 7, 137-157	0.1	