Emadeldeen Hassan

List of Publications by Year
in descending order

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		759233	752698
33	549	12	20
papers	citations	h-index	g-index

33	33	33	360
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Topology Optimization of Metallic Antennas. IEEE Transactions on Antennas and Propagation, 2014, 62, 2488-2500.	5.1	85
2	Topology Optimization of Planar Antennas for Wideband Near-Field Coupling. IEEE Transactions on Antennas and Propagation, 2015, 63, 4208-4213.	5.1	56
3	BREAST CANCER DETECTION USING A HYBRID FINITE DIFFERENCE FREQUENCY DOMAIN AND PARTICLE SWARM OPTIMIZATION TECHNIQUES. Progress in Electromagnetics Research B, 2008, 3, 35-46.	1.0	40
4	MICROSTRIP ANTENNA WITH DEFECTED GROUND PLANE STRUCTURE AS A SENSOR FOR LANDMINES DETECTION. Progress in Electromagnetics Research B, 2008, 4, 27-39.	1.0	40
5	Characterization of the Fat Channel for Intra-Body Communication at R-Band Frequencies. Sensors, 2018, 18, 2752.	3.8	38
6	Intraâ€body microwave communication through adipose tissue. Healthcare Technology Letters, 2017, 4, 115-121.	3.3	31
7	ELECTROMAGNETIC SCATTERING USING GPU-BASED FINITE DIFFERENCE FREQUENCY DOMAIN METHOD. Progress in Electromagnetics Research B, 2009, 16, 351-369.	1.0	25
8	Data Packet Transmission Through Fat Tissue for Wireless IntraBody Networks. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2017, 1, 43-51.	3.4	24
9	Multilayer Topology Optimization of Wideband SIW-to-Waveguide Transitions. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1326-1339.	4.6	23
10	MICROSTRIP ANTENNA WITH CORRUGATED GROUND PLANE SURFACE AS A SENSOR FOR LANDMINES DETECTION. Progress in Electromagnetics Research B, 2008, 2, 259-278.	1.0	19
11	Topology Optimisation of Wideband Coaxial-to-Waveguide Transitions. Scientific Reports, 2017, 7, 45110.	3.3	18
12	PATCH AND GROUND PLANE DESIGN OF MICROSTRIP ANTENNAS BY MATERIAL DISTRIBUTION TOPOLOGY OPTIMIZATION. Progress in Electromagnetics Research B, 2014, 59, 89-102.	1.0	15
13	Reliability of the fat tissue channel for intra-body microwave communication. , 2017, , .		15
14	Breast cancer detection using a hybrid Finite difference frequency domain and particle swarm optimization techniques. , 2008, , .		13
15	Non-parametric spectral estimation techniques for DNA sequence analysis and exon region prediction. Computers and Electrical Engineering, 2019, 73, 334-348.	4.8	12
16	Design of Planar Microstrip-to-Waveguide Transitions Using Topology Optimization. , 2019, , .		11
17	Topology optimization of compact wideband coaxial-to-waveguide transitions with minimum-size control. Structural and Multidisciplinary Optimization, 2018, 57, 1765-1777.	3.5	10
18	Assessment of Blood Vessel Effect on Fat-Intrabody Communication Using Numerical and Ex-Vivo Models at 2.45 GHz. IEEE Access, 2019, 7, 89886-89900.	4.2	9

#	Article	IF	Citations
19	Effect of Thickness Inhomogeneity in Fat Tissue on In-Body Microwave Propagation. , 2018, , .		8
20	Fat-IntraBody Communication at 5.8 GHz: Verification of Dynamic Body Movement Effects Using Computer Simulation and Experiments. IEEE Access, 2021, 9, 48429-48445.	4.2	8
21	The effect of the ground plane shape on the characteristics of rectangular dielectric resonator antennas. , 2006, , .		7
22	Microstrip antenna with corrugated ground plane surface as a sensor for landmines detection. , 2008, , .		6
23	Human fat tissue: A microwave communication channel. , 2017, , .		6
24	A Hybrid Finite Difference Frequency Domain and Particle Swarm Optimization Techniques for Forward and Inverse Electromagnetic Scattering Problems. , 2007, , .		5
25	EFFECTS OF SOIL PHYSICAL PROPERTIES ON LANDMINES DETECTION USING MICROSTRIP ANTENNA AS A SENSOR. Progress in Electromagnetics Research C, 2009, 7, 13-24.	0.9	5
26	Visual representation of DNA sequences for exon detection using non-parametric spectral estimation techniques. Nucleosides, Nucleotides and Nucleic Acids, 2019, 38, 321-337.	1.1	5
27	Topology optimization of dispersive plasmonic nanostructures in the time-domain. Optics Express, 2022, 30, 19557.	3.4	5
28	Effects of Blood Vessels on Fat Channel Microwave Communication. , 2018, , .		3
29	Compact Differential-Fed Planar Filtering Antennas. Electronics (Switzerland), 2019, 8, 1241.	3.1	3
30	Design of UMTS Dielectric Resonator Antenna for Mobile Phone Including the Biological Effects. , 2007, , .		2
31	An Ultra Broadband Multi-Tone Six-Port Radar for Distance Measurements in K-Band Waveguides. , 2020, , .		2
32	Control of Rectangular Dielectric Resonator Characteristics by Ground Plane Shape. , 2006, , .		0
33	Impact of Blood Vessels on Data Packet Transmission Through the Fat Channel. , 2018, , .		0