Marcos T De Melo

List of Publications by Year
in descending order

73 papers	253 citations	1307594 7 h-index	1281871 11 g-index
73 all docs	73 docs citations	73 times ranked	141 citing authors

#	Article	IF	Citations
1	Discriminators for Instantaneous Frequency Measurement Subsystem Based on Open-Loop Resonators. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 2224-2231.	4.6	33
2	Using Genetic Algorithms for Device Modeling. IEEE Transactions on Magnetics, 2011, 47, 1322-1325.	2.1	16
3	Multiband FSS with Fractal Characteristic Based on Jerusalem Cross Geometry. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2017, 16, 932-941.	0.7	12
4	A Novel LSB Discriminator for a 5 bit IFM Subsystem Based on Microstrip Band-Stop Filter. , 2008, , .		10
5	Comparison between power line communication multipath model and coaxial cable interferometer theory. International Journal of Communication Systems, 2014, 27, 151-162.	2.5	10
6	2-Bit, 1â€“4 GHz Reconfigurable Frequency Measurement Device. IEEE Microwave and Wireless Components Letters, 2014, 24, 569-571.	3.2	10
7	Reconfigurable Frequency Discriminator Based on Fractal Delay Line. IEEE Microwave and Wireless Components Letters, 2019, 29, 186-188.	3.2	9
8	A new coplanar interferometer for a 5–6 GHz Instantaneous Frequency Measurement system. , 2009, , .		8
9	New compact interferometer based on fractal concept. , 2015, , .		8
10	Instantaneous Frequency Measurement Subsystem implementation using low-cost microcontroller. , 2015, , .		8
11	Fourâ€bit reconfigurable discriminator for frequency identification receivers: A building block approach. Radio Science, 2016, 51, 826-835.	1.6	7
12	4-Bit, 1 to 4 GHz reconfigurable discriminator for frequency measurement. , 2014, , .		6
13	Gain enhancement of dual-band antenna using square loop FSS. , 2017, , .		6
14	Multi-band microwave sensor based on Hilbertâ€™s fractal for dielectric solid material characterization. Journal of Electromagnetic Waves and Applications, 2021, 35, 848-860.	1.6	6
15	Microstrip diplexer for GSM and UMTS integration using ended stub resonators. , 2007, , .		5
16	Coupled microstrip comblines filters. International Journal of RF and Microwave Computer-Aided Engineering, 2007, 17, 110-114.	1.2	5
17	Coplanar Antenna Array for 2.45GHz RFID Tag. , 2006, , .		4
18	A diplexer for UMTS applications. , 2009, , .		4

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19	Switched smart antenna system for SCADA telesupervision and telecontrol systems. , 2013, , .		4
20	Localization and diagnosis of stay rod of V guyed towers corrosion. , 2014, , .		4
21	Planar sensor for powder grain characterisation. IET Microwaves, Antennas and Propagation, 2018, 12, 1666-1670.	1.4	4
22	Artificial Neural Network-Based System for Location of Structural Faults on Anchor Rods Using Input Impedance Response. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	4
23	Microwave Spoof Surface Plasmon Sensor for Dielectric Material Characterization. , 2022, 6, 1-4.		4
24	Microstrip power divider for integration of an Instantaneous Frequency Measurement system. , 2011, , .		3
25	Design of a complex impedance matching circuit in microstrip used to detect corrosion in anchor rods. , 2015, , .		3
26	A comparison between 4-bit fixed and reconfigurable microwave discriminators for frequency identification. , 2016, , .		3
27	A novel method for frequency discriminators construction based on balanced gray code. , 2016, , .		3
28	A novel microstrip frequency discriminator for IFM based on balanced gray-code. , 2017, , .		3
29	Reconfigurable cross dipole: hash frequency selective surface. IET Microwaves, Antennas and Propagation, 2018, 12, 224-229.	1.4	3
30	Fourâ€bit instantaneous frequency measurement systems based on frequency selective surfaces. Microwave and Optical Technology Letters, 2019, 61, 68-72.	1.4	3
31	Application of the Base Transceiver Station with Smart Antennas in the Power Distribution Sector. International Journal of Antennas and Propagation, 2021, 2021, 1-12.	1.2	3
32	A Non-destructive Inspection of Anchor Rods based on Frequency Domain Reflectometry. , 2019, , .		3
33	Design of a connector for fault detection in eye bolts used as insulator anchorages. Engineering Research Express, 2020, 2, 045021.	1.6	3
34	Open Loop Filter Duplexer with Internal Stubs for GSM Cellular Base Station. , 2006, , .		2
35	Coplanar antenna array design with stubs over dipoles for RFID applications. Microwave and Optical Technology Letters, 2008, 50, 877-879.	1.4	2
36	A novel duplexer for UMTS applications based on a cross-coupled filter. Microwave and Optical Technology Letters, 2010, 52, 2792-2795.	1.4	2

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37	Analysis of noise and transfer function characteristics in a three-phase electrical infrastructure. , 2010, , .		2
38	Reconfigurable frequency identification receivers. , 2015, , .		2
39	RFSS based on cross dipole or grid using PIN diode. Microwave and Optical Technology Letters, 2017, 59, 2122-2126.	1.4	2
40	Reliable Structural Failure Detection in Eye Bolts using Reflectometry Signals. , 2021, , .		2
41	Back-to-back Double Antenna Array with 360Â° Coverage Simulation Model. , 2019, , .		2
42	Reconfigurable Filtenna using Varactor Diode for Wireless Applications. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2021, 20, 834-854.	0.7	2
43	Review of microwave frequency measurement circuits. Journal of Electromagnetic Waves and Applications, 2022, 36, 2055-2087.	1.6	2
44	Analysis of a Linear Modified Yagi-Uda array using Particle Swarm Optimization for the Radiation Pattern Synthesis. , 2021, , .		2
45	A new procedure for developing UMTS filters based on periodic structures. , 2011, , .		1
46	4-bit, 1 to 4 GHz reconfigurable discriminator for frequency measurement. , 2014, , .		1
47	Modeling microwave devices using genetic algorithms. , 2014, , .		1
48	Frequency and angular estimations of detected microwave source using unmanned aerial vehicles. , 2016, , .		1
49	Permittivity and loss characteristics of <scp>SU</scp>8â€quartz composite photoresist at <scp>TH</scp>z frequencies. Microwave and Optical Technology Letters, 2016, 58, 2329-2330.	1.4	1
50	Controlled directivity and gain of antenna using square loop RFSS based on PIN diode. , 2017, , .		1
51	Microstrip fractal-based phase shifter an UHF phase shifter based on with Hilbert's fractal delay lines. , 2017, , .		1
52	Microstrip fractal-based phase shifter: An UHF phase shifter based on with Hilbert's fractal delay lines. , 2017, , .		1
53	A novel iterative method to estimate the soil complex permittivity from measurement and simulation modeling. , 2021, , .		1
54	Low Radar Cross-section and Low Cost Dipole Antenna Reflector. Advanced Electromagnetics, 2017, 6, 25.	1.0	1

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55	An electromagnetic multi-parameter strategy to detect faults in anchor rods using neural networks. , 2019, , .		1
56	A New Design of Sierpinski Curve Fractal FSS for S-band Interference Protection Applications. , 2019, , .		1
57	A Novel Fully Integrated 4-Bit IFM Subsystem Using Band-Stop Filters. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2020, 19, 396-406.	0.7	1
58	Cascade Modeling of the Measuring System Used to Assess S-Parameters of Anchor Rods on Power Transmission Lines Guyed Towers. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2022, 21, 35-47.	0.7	1
59	Study of the Linear Microwave Absorption in YBa2Cu3O7â€”Î´ Ceramic Samples for Low Level of Incident Power. Physica Status Solidi A, 1998, 169, 281-288.	1.7	0
60	GSM openâ€loop duplexer filter with internal stubs. Microwave and Optical Technology Letters, 2008, 50, 2422-2426.	1.4	0
61	Electric field in Overhead Transmission Line for PLC signal. , 2010, , .		0
62	Using genetic algorithms for device modeling. , 2010, , .		0
63	Analysis of real overvoltage transient in a TLM-modeled. , 2010, , .		0
64	Design and construction of a system for detection of lightning discharges on power transmission lines. , 2011, , .		0
65	Recent trends and considerations for high speed data in chips and system interconnects. , 2015, , .		0
66	Signal-flow graph analysis in PLC multipath model. , 2015, , .		0
67	Controlled highâ€gain of an UWB antenna using cross dipole RFSS based on PIN diode. Microwave and Optical Technology Letters, 2018, 60, 2103-2107.	1.4	0
68	Planar Sensor for Material Characterization Based on the Sierpinski Fractal Curve. Journal of Sensors, 2020, 2020, 1-9.	1.1	0
69	A New Trapezium FSS Superstrate for Antenna Gain Enhancement. , 2019, , .		0
70	A Novel Methodology to Detect Faults on Anchor Rods Using Reflectometry and Machine Learning. , 2019, , .		0
71	Microwave Interference Techniques for Frequency Measurement and Filters. , 2019, , .		0
72	MIMO-PLC Communications in an Experimental Medium Voltage Network: Measurement and Analysis. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2022, 21, 102-113.	0.7	0

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73	Phase Adjustment of S-Parameters from Coupled Resonator Filters. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2022, 21, 171-183.	0.7	0