

Marco Dionigi

List of Publications by Year in descending order

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docs citations

99
times ranked

1541
citing authors

#	ARTICLE	IF	CITATIONS
1	Electromagnetic Energy Harvesting and Wireless Power Transmission: A Unified Approach. Proceedings of the IEEE, 2014, 102, 1692-1711.	16.4	177
2	Magnetic Field-Based Positioning Systems. IEEE Communications Surveys and Tutorials, 2017, 19, 2003-2017.	24.8	122
3	An Indoor AC Magnetic Positioning System. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1267-1275.	2.4	81
4	A Positioning System Based on Low-Frequency Magnetic Fields. IEEE Transactions on Industrial Electronics, 2016, 63, 2457-2468.	5.2	81
5	A 5.6-GHz UWB Position Measurement System. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 675-683.	2.4	78
6	Rigorous Network and Full-Wave Electromagnetic Modeling of Wireless Power Transfer Links. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 65-75.	2.9	67
7	Simple High-Performance Metal-Plating Procedure for Stereolithographically 3-D-Printed Waveguide Components. IEEE Microwave and Wireless Components Letters, 2017, 27, 953-955.	2.0	54
8	Microwave Circuits in Paper Substrates Exploiting Conductive Adhesive Tapes. IEEE Microwave and Wireless Components Letters, 2012, 22, 660-662.	2.0	52
9	Conditions for a Load-Independent Operating Regime in Resonant Inductive WPT. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1066-1076.	2.9	44
10	A Simple and Low-Cost Measurement System for the Complex Permittivity Characterization of Materials. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 1071-1077.	2.4	42
11	Characterization and Modeling of an Experimental UWB Pulse-Based Distance Measurement System. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 1479-1486.	2.4	40
12	A fullwave CAD tool for waveguide components using a high speed direct optimizer. IEEE Transactions on Microwave Theory and Techniques, 1995, 43, 2046-2052.	2.9	35
13	A Low-Cost Ultra-Wideband Indoor Ranging System. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3935-3942.	2.4	34
14	A novel technique for complex permittivity measurement based on a planar four-port device. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 2568-2575.	2.9	33
15	A Simple Ranging System Based on Mutually Coupled Resonating Circuits. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1215-1223.	2.4	33
16	Experimental Comparison of Low-Cost Sub-Nanosecond Pulse Generators. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 310-318.	2.4	31
17	3-D-Printed Quasi-Elliptical Evanescent Mode Filter Using Mixed Electromagnetic Coupling. IEEE Microwave and Wireless Components Letters, 2018, 28, 497-499.	2.0	31
18	Analysis of Nonideal Effects and Performance in Magnetic Positioning Systems. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 2816-2827.	2.4	30

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19	Compact Quasi-Elliptic Filters With Mushroom-Shaped Resonators Manufactured With 3-D Printer. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3579-3588.	2.9	27
20	A Wearable and Wirelessly Powered System for Multiple Finger Tracking. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2542-2551.	2.4	27
21	A novel resonator for simultaneous Wireless Power Transfer and Near Field Magnetic Communications. , 2012, , .		26
22	24 GHz Single-Balanced Diode Mixer Exploiting Cellulose-Based Materials. IEEE Microwave and Wireless Components Letters, 2013, 23, 596-598.	2.0	25
23	EMC and EMI issues of WPT systems for wearable and implantable devices. IEEE Electromagnetic Compatibility Magazine, 2018, 7, 67-77.	0.1	22
24	Optimal Design of Wireless Energy Transfer to Multiple Receivers: Power Maximization. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 260-269.	2.9	20
25	Gain expressions for resonant inductive wireless power transfer links with one relay element. Wireless Power Transfer, 2018, 5, 27-41.	0.9	20
26	CAD of Efficient Wireless Power Transmission systems. , 2011, , .		19
27	Harmonic balance design of wireless resonant-type power transfer links. , 2012, , .		19
28	Network Methods for Analysis and Design of Resonant Wireless Power Transfer Systems. , 0, , .		19
29	Experimental Characterization of a Personal Wireless Sensor Network for the Medical X-Ray Dosimetry. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 2002-2011.	2.4	19
30	Design and Fabrication of 3-D Printed Inline Coaxial Filters With Improved Stopband. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 2633-2643.	2.9	18
31	Magnetically coupled resonant wireless power transmission: An artificial transmission line approach. , 2012, , .		17
32	Rigorous network modeling of magnetic-resonant wireless power transfer. Wireless Power Transfer, 2014, 1, 27-34.	0.9	17
33	Wireless Power Transfer With Three-Ports Networks: Optimal Analytical Solutions. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 494-503.	3.5	17
34	A novel coaxial loop resonator for wireless power transfer. International Journal of RF and Microwave Computer-Aided Engineering, 2012, 22, 345-352.	0.8	16
35	Multi band resonators for wireless power transfer and near field magnetic communications. , 2012, , .		15
36	A 1.2 V, 0.9 mW UHF VCO Based on Hairpin Resonator in Paper Substrate and Cu Adhesive Tape. IEEE Microwave and Wireless Components Letters, 2013, 23, 214-216.	2.0	14

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37	Rigorous design of magnetic-resonant wireless power transfer links realized with two coils. , 2014, , .		14
38	Magnetically coupled resonant Wireless Power Transmission systems with relay elements. , 2012, , .		13
39	Electromagnetic Characterization of Paper-Glue Compound for System-in-Package on Paper (SiPoP) Future Developments. IEEE Microwave and Wireless Components Letters, 2012, 22, 545-547.	2.0	12
40	Modelling of wireless power transfer links based on capacitive coupling. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2017, 30, e2187.	1.2	12
41	GAINS MAXIMIZATION VIA IMPEDANCE MATCHING NETWORKS FOR WIRELESS POWER TRANSFER. Progress in Electromagnetics Research, 2019, 164, 135-153.	1.6	12
42	CAD of wireless resonant energy links (WREL) realized by coils. , 2010, , .		11
43	A bidirectional moving field inductive power transfer system for electric vehicles. , 2013, , .		11
44	Wireless power transfer between one transmitter and two receivers: optimal analytical solution. Wireless Power Transfer, 2016, 3, 63-73.	0.9	11
45	Design and experimental characterization of a combined WPT-PLC system. Wireless Power Transfer, 2017, 4, 160-170.	0.9	11
46	Estimation of the Magnetic Dipole Moment of a Coil Using AC Voltage Measurements. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2495-2503.	2.4	10
47	Strategies for the improvement of the out of band behavior of TM dual-mode filters. , 2015, , .		9
48	A system for dynamic inductive power supply of electric vehicles on the road. , 2016, , .		9
49	Analysis of simultaneous 3D positioning and attitude estimation of a planar coil using inductive coupling. , 2017, , .		9
50	Stereolithographic 3D printing of compact quasi-elliptical filters. , 2017, , .		9
51	Compact doublet structure for Quasi-elliptical filters using stereolithographic 3D printing. , 2017, , .		9
52	In-line stepped ridge coaxial-to-rectangular waveguide transition with capacitive coupling. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21626.	0.8	9
53	Electro-optic modulator for high resolution Brillouin scattering measurements. Review of Scientific Instruments, 2001, 72, 198-200.	0.6	8
54	Networks methods for wireless resonant energy links (WREL) computations. , 2009, , .		8

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55	Network representations for Wireless Power Transfer realized with resonant inductive coils. , 2011, ,		8
56	Analysis of the sensitivity of AC magnetic ranging systems to environmental configurations. , 2015, , .		8
57	Design of a Compact 3D Printed Coaxial Filter. , 2018, , .		8
58	A Very Compact 3D-Printed Doublet Structure based on a Double Iris and a Pair of Slanting Rods. , 2018, , .		8
59	Broadband Right-Angle Rectangular Waveguide to Substrate Integrated Waveguide Transition with Distributed Impedance Matching Network. Applied Sciences (Switzerland), 2019, 9, 389.	1.3	7
60	Single-Layer Line-Fed Broadband Microstrip Patch Antenna on Thin Substrates. Electronics (Switzerland), 2021, 10, 37.	1.8	7
61	A simple ranging system based on mutually coupled resonating circuits. , 2013, , .		6
62	An accurate Indoor Position-measurement system using mutually coupled resonating circuits. , 2014, , .		6
63	Wireless power transfer between one transmitter and two receivers: Optimal analytical solution. , 2015, , .		6
64	Design of magnetic-resonant wireless power transfer links realized with two coils: comparison of solutions. International Journal of Microwave and Wireless Technologies, 2015, 7, 349-359.	1.5	6
65	Wireless resonant-type power transfer links with relay elements: Harmonic balance design. , 2012, , .		5
66	Multi-band design of matched wireless power transfer links. , 2014, , .		5
67	On the Use of Magnetically Coupled Resonators for Chirp-Based Timestamping. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 3536-3544.	2.4	5
68	Fast and accurate analysis of scanning slotted waveguide arrays. , 2002, , .		4
69	A Low-Cost Driving Circuitry for Permittivity and Moisture Measurement Systems. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 2227-2233.	2.4	4
70	A Novel Technique for Measuring One-Dimensional Permittivity Profiles Using a Simple Non-Commensurate Planar Structure. IEEE Microwave and Wireless Components Letters, 2008, 18, 155-157.	2.0	4
71	Conjugate image impedance matching for maximizing the gains of a WPT link. , 2018, , .		4
72	An X-band compact and low-profile waveguide magic-tee. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21854.	0.8	4

#	ARTICLE	IF	CITATIONS
73	Design of via hole fed printed circular disc monopole antenna for UWB systems. , 2011, , .		3
74	Characterization and performance measurements of mid-range wireless power transfer links. , 2016, , .		3
75	The basic cell operating regimes for wireless Power Transfer of Electric Vehicles. , 2016, , .		3
76	Resonant inductive wireless power transfer links operating in a coupling-independent regime: Theory and experiments. , 2017, , .		3
77	Additive manufacturing of microwave components: Different approaches and methodologies. , 2017, , .		3
78	Matched resonant inductive WPT using the coupling-independent regime: Theory and experiments. , 2017, , .		3
79	Numerical electromagnetic modeling of a wireless power transfer system. , 2014, , .		2
80	Full-wave computer-aided optimization of wireless power transfer systems. , 2014, , .		2
81	Image impedances of magnetic resonant wireless power transfer links. , 2014, , .		2
82	Design of matched wireless power transfer links realized with coupled inductors. , 2015, , .		2
83	Wideband Rectangular Waveguide to Substrate Integrated Waveguide (SIW) E-Plane T-Junction. Electronics (Switzerland), 2021, 10, 264.	1.8	2
84	Inexpensive time dissemination using magnetically coupled resonators. , 2014, , .		1
85	Surrogate-based optimization of efficient resonant wireless power transfer links using conjugate image impedances. , 2014, , .		1
86	Accurate estimation of a coil magnetic dipole moment. , 2017, , .		1
87	Woodchip humidity measurements using EM pulse propagation time. , 2012, , .		0
88	Reply to Comments on "A Novel Technique for Measuring One-Dimensional Permittivity Profiles Using a Simple Non-Commensurate Planar Structure". IEEE Microwave and Wireless Components Letters, 2012, 22, 47-47.	2.0	0
89	Network representation of resonators for wireless power transfer. , 2013, , .		0
90	A microwave sensor for glue on paper detection. , 2014, , .		0

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91	Rigorous design of wireless power transfer links with one transmitter and two receivers. , 2015, , .		0
92	Penetration loss of the electromagnetic field in buildings with apertures: a case of study. , 2015, , .		0
93	Iterative determination of conjugate image impedances for N-port networks. , 2015, , .		0
94	Combining WPT and PLC: A review. , 2016, , .		0
95	Resonant inductive WPT link operating in a coupling-independent regime. , 2017, , .		0
96	Electromagnetic analysis of coils for wireless power transfer. , 2017, , .		0
97	An interactive system for exhibitions in a science and technology center. , 2017, , .		0
98	Shielding Effectiveness and Figure of Merit of Ferrite Shielded Coils. , 2018, , .		0
99	Stereolithographic 3D Printing of Post Filters with Non-Conventional Geometry. , 2018, , .		0