

# Marco Dionigi

## List of Publications by Year in descending order

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99  
papers

1,745  
citations

331538

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330025

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99  
docs citations

99  
times ranked

1541  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wideband Rectangular Waveguide to Substrate Integrated Waveguide (SIW) E-Plane T-Junction. Electronics (Switzerland), 2021, 10, 264.	1.8	2
2	Single-Layer Line-Fed Broadband Microstrip Patch Antenna on Thin Substrates. Electronics (Switzerland), 2021, 10, 37.	1.8	7
3	A Wearable and Wirelessly Powered System for Multiple Finger Tracking. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2542-2551.	2.4	27
4	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
5	Broadband Right-Angle Rectangular Waveguide to Substrate Integrated Waveguide Transition with Distributed Impedance Matching Network. Applied Sciences (Switzerland), 2019, 9, 389.	1.3	7
6	An X-band compact and low-profile waveguide magic-T. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21854.	0.8	4
7	GAINS MAXIMIZATION VIA IMPEDANCE MATCHING NETWORKS FOR WIRELESS POWER TRANSFER. Progress in Electromagnetics Research, 2019, 164, 135-153.	1.6	12
8	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
9	EMC and EMI issues of WPT systems for wearable and implantable devices. IEEE Electromagnetic Compatibility Magazine, 2018, 7, 67-77.	0.1	22
10	Gain expressions for resonant inductive wireless power transfer links with one relay element. Wireless Power Transfer, 2018, 5, 27-41.	0.9	20
11	Shielding Effectiveness and Figure of Merit of Ferrite Shielded Coils. , 2018, , .		0
12	Stereolithographic 3D Printing of Post Filters with Non-Conventional Geometry. , 2018, , .		0
13	Design of a Compact 3D Printed Coaxial Filter. , 2018, , .		8
14	A Very Compact 3D-Printed Doublet Structure based on a Double Iris and a Pair of Slanting Rods. , 2018, , .		8
15	Conjugate image impedance matching for maximizing the gains of a WPT link. , 2018, , .		4
16	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
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	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

#	ARTICLE	IF	CITATIONS
19	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
20	Resonant inductive WPT link operating in a coupling-independent regime. , 2017, , .		0
21	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
22	Magnetic Field-Based Positioning Systems. IEEE Communications Surveys and Tutorials, 2017, 19, 2003-2017.	24.8	122
23	Electromagnetic analysis of coils for wireless power transfer. , 2017, , .		0
24	Design and experimental characterization of a combined WPT-PLC system. Wireless Power Transfer, 2017, 4, 160-170.	0.9	11
25	Resonant inductive wireless power transfer links operating in a coupling-independent regime: Theory and experiments. , 2017, , .		3
26	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
27	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
28	Analysis of simultaneous 3D positioning and attitude estimation of a planar coil using inductive coupling. , 2017, , .		9
29	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
30	An interactive system for exhibitions in a science and technology center. , 2017, , .		0
31	Additive manufacturing of microwave components: Different approaches and methodologies. , 2017, , .		3
32	Stereolithographic 3D printing of compact quasi-elliptical filters. , 2017, , .		9
33	Matched resonant inductive WPT using the coupling-independent regime: Theory and experiments. , 2017, , .		3
34	Compact doublet structure for Quasi-elliptical filters using stereolithographic 3D printing. , 2017, , .		9
35	Accurate estimation of a coil magnetic dipole moment. , 2017, , .		1
36	Characterization and performance measurements of mid-range wireless power transfer links. , 2016, , .		3

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37	Wireless power transfer between one transmitter and two receivers: optimal analytical solution. <i>Wireless Power Transfer</i> , 2016, 3, 63-73.	0.9	11
38	Analysis of Nonideal Effects and Performance in Magnetic Positioning Systems. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016, 65, 2816-2827.	2.4	30
39	The basic cell operating regimes for wireless Power Transfer of Electric Vehicles. , 2016, , .		3
40	A system for dynamic inductive power supply of electric vehicles on the road. , 2016, , .		9
41	Combining WPT and PLC: A review. , 2016, , .		0
42	Experimental Characterization of a Personal Wireless Sensor Network for the Medical X-Ray Dosimetry. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016, 65, 2002-2011.	2.4	19
43	A Positioning System Based on Low-Frequency Magnetic Fields. <i>IEEE Transactions on Industrial Electronics</i> , 2016, 63, 2457-2468.	5.2	81
44	Wireless power transfer between one transmitter and two receivers: Optimal analytical solution. , 2015, , .		6
45	Design of matched wireless power transfer links realized with coupled inductors. , 2015, , .		2
46	Strategies for the improvement of the out of band behavior of TM dual-mode filters. , 2015, , .		9
47	Rigorous design of wireless power transfer links with one transmitter and two receivers. , 2015, , .		0
48	Penetration loss of the electromagnetic field in buildings with apertures: a case of study. , 2015, , .		0
49	On the Use of Magnetically Coupled Resonators for Chirp-Based Timestamping. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015, 64, 3536-3544.	2.4	5
50	Iterative determination of conjugate image impedances for N-port networks. , 2015, , .		0
51	Analysis of the sensitivity of AC magnetic ranging systems to environmental configurations. , 2015, , .		8
52	Rigorous Network and Full-Wave Electromagnetic Modeling of Wireless Power Transfer Links. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015, 63, 65-75.	2.9	67
53	Design of magnetic-resonant wireless power transfer links realized with two coils: comparison of solutions. <i>International Journal of Microwave and Wireless Technologies</i> , 2015, 7, 349-359.	1.5	6
54	An Indoor AC Magnetic Positioning System. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015, 64, 1267-1275.	2.4	81

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55	An accurate Indoor Position-measurement system using mutually coupled resonating circuits. , 2014, , .		6
56	Rigorous design of magnetic-resonant wireless power transfer links realized with two coils. , 2014, , .		14
57	A microwave sensor for glue on paper detection. , 2014, , .		0
58	Inexpensive time dissemination using magnetically coupled resonators. , 2014, , .		1
59	Surrogate-based optimization of efficient resonant wireless power transfer links using conjugate image impedances. , 2014, , .		1
60	Numerical electromagnetic modeling of a wireless power transfer system. , 2014, , .		2
61	Rigorous network modeling of magnetic-resonant wireless power transfer. <i>Wireless Power Transfer</i> , 2014, 1, 27-34.	0.9	17
62	Full-wave computer-aided optimization of wireless power transfer systems. , 2014, , .		2
63	A Simple Ranging System Based on Mutually Coupled Resonating Circuits. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014, 63, 1215-1223.	2.4	33
64	Electromagnetic Energy Harvesting and Wireless Power Transmission: A Unified Approach. <i>Proceedings of the IEEE</i> , 2014, 102, 1692-1711.	16.4	177
65	Image impedances of magnetic resonant wireless power transfer links. , 2014, , .		2
66	Multi-band design of matched wireless power transfer links. , 2014, , .		5
67	A 5.6-GHz UWB Position Measurement System. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013, 62, 675-683.	2.4	78
68	24 GHz Single-Balanced Diode Mixer Exploiting Cellulose-Based Materials. <i>IEEE Microwave and Wireless Components Letters</i> , 2013, 23, 596-598.	2.0	25
69	A simple ranging system based on mutually coupled resonating circuits. , 2013, , .		6
70	A 1.2 V, 0.9 mW UHF VCO Based on Hairpin Resonator in Paper Substrate and Cu Adhesive Tape. <i>IEEE Microwave and Wireless Components Letters</i> , 2013, 23, 214-216.	2.0	14
71	A bidirectional moving field inductive power transfer system for electric vehicles. , 2013, , .		11
72	Network representation of resonators for wireless power transfer. , 2013, , .		0

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73	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
74	Magnetically coupled resonant wireless power transmission: An artificial transmission line approach. , 2012, , .		17
75	Wireless resonant-type power transfer links with relay elements: Harmonic balance design. , 2012, , .		5
76	Microwave Circuits in Paper Substrates Exploiting Conductive Adhesive Tapes. IEEE Microwave and Wireless Components Letters, 2012, 22, 660-662.	2.0	52
77	Multi band resonators for wireless power transfer and near field magnetic communications. , 2012, , .		15
78	Woodchip humidity measurements using EM pulse propagation time. , 2012, , .		0
79	Magnetically coupled resonant Wireless Power Transmission systems with relay elements. , 2012, , .		13
80	Harmonic balance design of wireless resonant-type power transfer links. , 2012, , .		19
81	A novel resonator for simultaneous Wireless Power Transfer and Near Field Magnetic Communications. , 2012, , .		26
82	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
83	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
84	Design of via hole fed printed circular disc monopole antenna for UWB systems. , 2011, , .		3
85	Network representations for Wireless Power Transfer realized with resonant inductive coils. , 2011, , .		8
86	CAD of Efficient Wireless Power Transmission systems. , 2011, , .		19
87	Experimental Comparison of Low-Cost Sub-Nanosecond Pulse Generators. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 310-318.	2.4	31
88	CAD of wireless resonant energy links (WREL) realized by coils. , 2010, , .		11
89	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
90	A Low-Cost Ultra-Wideband Indoor Ranging System. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3935-3942.	2.4	34

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91	Networks methods for wireless resonant energy links (WREL) computations. , 2009, , .		8
92	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
93	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
94	A Low-Cost Driving Circuitry for Permittivity and Moisture Measurement Systems. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 2227-2233.	2.4	4
95	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
96	Fast and accurate analysis of scanning slotted waveguide arrays. , 2002, , .		4
97	Electro-optic modulator for high resolution Brillouin scattering measurements. Review of Scientific Instruments, 2001, 72, 198-200.	0.6	8
98	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
99	Network Methods for Analysis and Design of Resonant Wireless Power Transfer Systems. , 0, , .		19